

Request No. LA65-0414

Report No. 6504-0395

TEST REPORT

CUSTOMER : GC Glycol Company Limited

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. : 02042

SAMPLING DATE : 07/04/2022

SAMPLING TIME : 10:00-10:40

RECEIVED DATE : 21/04/2002

REPORTED DATE : 26/04/2002

TESTED DATE : 21-26/04/2022

STACK DESCRIPTION

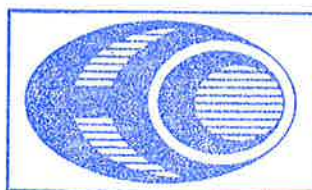
Height :	14.00	m	Type of Process :	Exhaust
Diameter :	0.15	m	Type of Fuel :	-
Temperature :	34.00	°C	Oxygen Content :	12.60 %
Air Velocity :	2.20	m/s	Barometric Pressure :	755.50 mm.Hg
Flow rate ² :	0.04	m ³ /s	Atmospheric Temperature :	33.00 °C
Moisture Content :	3.44	%		

PARAMETER	TEST METHOD	TIME	RESULT ²	STD ¹	UNIT
Ammonia ³	U.S.EPA Method CTM 027	10:00-10:40	0.090	35	mg/m ³
(NH ₃)			0.129	50	ppm

REMARK:¹ ค่ากำหนดตามรายงานการประเมินผลกระทบสิ่งแวดล้อม (EIA)² DRY BASIS (25°C, 760 mm.Hg)³ SAMPLING BY EASTERN THAI CONSULTING 1992 CO.,LTD. (MR. METEE SUKPRASERT)

ANALYSED BY SECOT CO.,LTD.

Sampling at UTM 47P 731282E 1404902N



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Examined By. Thongchai Boonsak

(MR. THONGCHAI BOONSAK)

26/04/2022

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY

THIS REPORT SHALL NOT REPRODUCED EXCEPT IN FULL

WITHOUT THE WRITTEN APPROVAL LABORATORY

TEST REPORT

CUSTOMER : GC Glycol Co., Ltd
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 00209072 : Type 2

SAMPLE NO. : 05244
MEASURING DATE : 01-02/04/2022
RECEIVED DATE : 08/04/2022
REPORTED DATE : 19/04/2022

TIME \ DATE	01-02/04/2022 (L_{eq})	01-02/04/2022 (L_{max})	01-02/04/2022 ($L_{90\#}$)	UNIT
09:30 – 10:30 ¹⁾	66.3	90.3	61.5	dB(A)
10:30 – 11:30	63.8	89.2	60.4	dB(A)
11:30 – 12:30	59.7	83.6	56.5	dB(A)
12:30 – 13:30	59.8	80.9	57.0	dB(A)
13:30 – 14:30	61.1	90.0	57.3	dB(A)
14:30 – 15:30	60.0	77.5	56.6	dB(A)
15:30 – 16:30	61.2	83.4	57.4	dB(A)
16:30 – 17:30	59.0	84.5	56.7	dB(A)
17:30 – 18:30	57.8	72.7	56.7	dB(A)
18:30 – 19:30	57.7	65.1	56.9	dB(A)
19:30 – 20:30	58.2	68.4	57.2	dB(A)
20:30 – 21:30	60.7	88.4	57.3	dB(A)
21:30 – 22:30	58.3	66.7	57.4	dB(A)
22:30 – 23:30	58.5	69.1	57.7	dB(A)
23:30 – 00:30	58.6	70.5	57.8	dB(A)
00:30 – 01:30	58.3	68.5	57.6	dB(A)
01:30 – 02:30	58.6	73.3	57.8	dB(A)
02:30 – 03:30	58.3	64.4	57.7	dB(A)
03:30 – 04:30	58.5	69.7	57.8	dB(A)
04:30 – 05:30	58.4	67.8	57.6	dB(A)
05:30 – 06:30	58.5	70.0	57.5	dB(A)
06:30 – 07:30	58.6	77.4	57.5	dB(A)
07:30 – 08:30	62.4	85.2	57.9	dB(A)
08:30 – 09:30	62.4	82.0	58.2	dB(A)
L_{eq} 24 hr.	60.4	-	-	dB(A)
$L_{dn\#}$	65.4	-	-	dB(A)
Maximum	-	90.3	-	dB(A)
Standard	70 ¹⁾ , 70 ²⁾	115 ¹⁾ , 115 ²⁾	-	dB(A)

REMARK : ¹⁾ Test Report/Sampling marked 'Not TISI Accredited' in this report are not included in the TISI Accreditation Schedule for our laboratory

²⁾ Notification of Office of The National Environmental Board Volume 15 B.E. 2540 (1997)

³⁾ Notification of Ministry of the Industry B.E. 2548 (2005)

* Parameter Outside The Scope of The Registration of The Department of Industrial Works
(Ms. Thanatporn Klinsonon is Section Head, Mrs. Wanpen Lhaochindawat is Technical Management)
(Measurement By Mr. Tummarat Phrakthum)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By: 
(MRS. WANPEN LHAOCHINDAWAT)

19/04/2022

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TEST REPORT

CUSTOMER : GC Glycol Co., Ltd
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 00209072 : Type 2

SAMPLE NO. : 05245
MEASURING DATE : 02-03/04/2022
RECEIVED DATE : 08/04/2022
REPORTED DATE : 19/04/2022

TIME \ DATE	02-03/04/2022 (L_{eq})	02-03/04/2022 (L_{max})	02-03/04/2022 ($L_{90\#}$)	UNIT
09:30 – 10:30 ¹⁾	63.6	89.5	58.1	dB(A)
10:30 – 11:30	65.2	96.7	58.9	dB(A)
11:30 – 12:30	58.8	80.2	56.7	dB(A)
12:30 – 13:30	63.6	91.7	58.0	dB(A)
13:30 – 14:30	63.7	86.3	58.1	dB(A)
14:30 – 15:30	63.2	89.6	57.7	dB(A)
15:30 – 16:30	60.6	84.5	57.7	dB(A)
16:30 – 17:30	59.9	78.1	57.7	dB(A)
17:30 – 18:30	58.2	71.3	57.1	dB(A)
18:30 – 19:30	58.2	70.6	57.2	dB(A)
19:30 – 20:30	58.2	73.0	57.2	dB(A)
20:30 – 21:30	58.2	74.2	57.3	dB(A)
21:30 – 22:30	58.3	70.8	57.3	dB(A)
22:30 – 23:30	58.5	75.7	57.5	dB(A)
23:30 – 00:30	58.3	72.7	57.4	dB(A)
00:30 – 01:30	58.3	68.8	57.4	dB(A)
01:30 – 02:30	58.3	68.8	57.5	dB(A)
02:30 – 03:30	58.3	73.6	57.3	dB(A)
03:30 – 04:30	58.5	74.3	57.4	dB(A)
04:30 – 05:30	58.6	72.3	57.7	dB(A)
05:30 – 06:30	59.1	71.3	58.2	dB(A)
06:30 – 07:30	59.0	69.9	58.1	dB(A)
07:30 – 08:30	58.7	68.3	57.7	dB(A)
08:30 – 09:30	58.4	73.0	57.4	dB(A)
L_{eq} 24 hr.	60.4	-	-	dB(A)
$L_{dn\#}$	65.5	-	-	dB(A)
Maximum	-	96.7	-	dB(A)
Standard	70 ¹⁾ , 70 ²⁾	115 ¹⁾ , 115 ²⁾	-	dB(A)

REMARK : * Test Report/Sampling marked 'Not TISI Accredited' in this report are not included in the TISI Accreditation Schedule for our laboratory
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
 (Ms. Thanatporn Klinsonop is Section Head, Mrs. Wanpen Lhaochindawat is Technical Management)
 (Measurement By Mr. Tummarut Phrasakthum)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By.....
(MRS. WANPEN LHAOCHINDAWAT)

19/04/2022

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TEST REPORT

CUSTOMER : GC Glycol Co., Ltd
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 00209072 : Type 2
SAMPLE NO. : 05246
MEASURING DATE : 03-04/04/2022
RECEIVED DATE : 08/04/2022
REPORTED DATE : 19/04/2022

TIME \ DATE	03-04/04/2022 (L_{eq})	03-04/04/2022 (L_{max})	03-04/04/2022 ($L_{90\%}$)	UNIT
09:30 – 10:30 ³	58.0	72.2	57.0	dB(A)
10:30 – 11:30	57.3	73.9	56.1	dB(A)
11:30 – 12:30	57.1	72.7	55.8	dB(A)
12:30 – 13:30	57.3	70.0	56.1	dB(A)
13:30 – 14:30	57.2	72.2	56.1	dB(A)
14:30 – 15:30	57.2	76.4	55.9	dB(A)
15:30 – 16:30	57.9	75.6	55.9	dB(A)
16:30 – 17:30	57.2	67.9	56.2	dB(A)
17:30 – 18:30	57.5	68.4	56.6	dB(A)
18:30 – 19:30	58.1	68.0	57.3	dB(A)
19:30 – 20:30	58.0	69.8	57.3	dB(A)
20:30 – 21:30	57.9	65.1	57.2	dB(A)
21:30 – 22:30	57.9	61.9	57.1	dB(A)
22:30 – 23:30	58.4	61.5	57.7	dB(A)
23:30 – 00:30	58.7	61.6	58.0	dB(A)
00:30 – 01:30	58.4	65.4	57.6	dB(A)
01:30 – 02:30	58.2	62.4	57.4	dB(A)
02:30 – 03:30	58.3	64.1	57.5	dB(A)
03:30 – 04:30	58.3	63.0	57.5	dB(A)
04:30 – 05:30	58.3	66.9	57.4	dB(A)
05:30 – 06:30	58.6	72.5	57.7	dB(A)
06:30 – 07:30	58.4	69.2	57.5	dB(A)
07:30 – 08:30	62.9	97.8	57.5	dB(A)
08:30 – 09:30	66.2	82.8	60.0	dB(A)
L_{eq} 24 hr.	59.2	-	-	dB(A)
$L_{dn\#}$	65.0	-	-	dB(A)
Maximum	-	97.8	-	dB(A)
Standard	70 ¹ , 70 ²	115 ¹ , 115 ²	-	dB(A)

REMARK : [#] Test Report/Sampling marked 'Not TISI Accredited' in this report are not included in the TISI Accreditation Schedule for our laboratory


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
(Ms. Thanatporn Klinsonon is Section Head, Ms. Wanpen Lhaochindawat is Technical Management)
(Measurement By Mr. Tummarat Photanachum)



บริษัท อีสเทิร์นไทยคอนซัลติง 1992 จำกัด

³ Start Time
Approved By: 
(MRS. WANPEN LHAOCHINDAWAT)

19/04/2022

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TEST REPORT

CUSTOMER : GC Glycol Co., Ltd
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 00209072 : Type 2

SAMPLE NO. : 05247
MEASURING DATE : 04-05/04/2022
RECEIVED DATE : 08/04/2022
REPORTED DATE : 19/04/2022

TIME \ DATE	04-05/04/2022 (L_{eq})	04-05/04/2022 (L_{max})	04-05/04/2022 ($L_{90\#}$)	UNIT
09:30 – 10:30 ¹⁾	63.6	87.6	61.1	dB(A)
10:30 – 11:30	65.8	97.0	61.1	dB(A)
11:30 – 12:30	57.7	74.2	56.6	dB(A)
12:30 – 13:30	60.0	75.9	58.5	dB(A)
13:30 – 14:30	61.8	87.3	60.2	dB(A)
14:30 – 15:30	65.4	92.9	61.2	dB(A)
15:30 – 16:30	63.4	92.1	61.3	dB(A)
16:30 – 17:30	61.2	83.4	59.3	dB(A)
17:30 – 18:30	60.7	84.5	58.1	dB(A)
18:30 – 19:30	61.8	85.5	58.0	dB(A)
19:30 – 20:30	58.1	64.6	57.6	dB(A)
20:30 – 21:30	58.5	84.8	57.8	dB(A)
21:30 – 22:30	58.2	71.8	57.5	dB(A)
22:30 – 23:30	57.7	73.6	57.0	dB(A)
23:30 – 00:30	58.1	62.2	57.4	dB(A)
00:30 – 01:30	58.0	60.9	57.3	dB(A)
01:30 – 02:30	57.8	60.5	57.1	dB(A)
02:30 – 03:30	57.8	60.4	57.1	dB(A)
03:30 – 04:30	58.1	66.5	57.3	dB(A)
04:30 – 05:30	58.3	71.2	57.6	dB(A)
05:30 – 06:30	58.5	70.2	57.9	dB(A)
06:30 – 07:30	58.5	73.9	57.6	dB(A)
07:30 – 08:30	62.6	84.8	58.7	dB(A)
08:30 – 09:30	64.7	83.8	60.0	dB(A)
L_{eq} 24 hr.	61.2	-	-	dB(A)
$L_{dn\#}$	65.4	-	-	dB(A)
Maximum	-	97.0	-	dB(A)
Standard	70 ¹⁾ , 70 ²⁾	115 ¹⁾ , 115 ²⁾	-	dB(A)

REMARK : # Test Report/Sampling marked 'Not TISI Accredited' in this report are not included in the TISI Accreditation Schedule for our laboratory

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

²⁾ Notification of Ministry of the Industry B.E. 2545 (2002)

* Parameter Outside The Scope of The Registration of The Department of Industrial Works
(Ms. Thanatporn Klinsonon is Section Head, Mrs. Wanpen Lhaochindawat is Technical Management)
(Measurement By Mr. Tummarut Phonphum)

³⁾ Start Time



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By.....
(MRS. WANPEN LHAOCHINDAWAT)

19/04/2022

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ACCREDITED
ISO 9001 / ISO 14001

EASTERN THAI CONSULTING 1992 CO., LTD.

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



NSC-TISI-TIS 17025
TESTING 0031

Request No. LA65-R0429

Report No. R6504-0689

TEST REPORT

CUSTOMER : GC Glycol Co., Ltd
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 00209072 : Type 2

SAMPLE NO. : 05248
MEASURING DATE : 05-06/04/2022
RECEIVED DATE : 08/04/2022
REPORTED DATE : 19/04/2022

TIME \ DATE	05-06/04/2022 (L_{eq})	05-06/04/2022 (L_{max})	05-06/04/2022 ($L_{90\#}$)	UNIT
09:30 – 10:30 ^{1/3}	64.5	83.2	61.3	dB(A)
10:30 – 11:30	67.3	85.7	64.5	dB(A)
11:30 – 12:30	57.7	77.7	55.9	dB(A)
12:30 – 13:30	62.4	85.0	59.6	dB(A)
13:30 – 14:30	63.8	83.2	60.8	dB(A)
14:30 – 15:30	64.9	82.7	61.4	dB(A)
15:30 – 16:30	66.7	88.7	61.1	dB(A)
16:30 – 17:30	62.3	80.1	60.8	dB(A)
17:30 – 18:30	59.6	79.6	57.9	dB(A)
18:30 – 19:30	59.2	78.1	57.8	dB(A)
19:30 – 20:30	58.1	63.4	57.7	dB(A)
20:30 – 21:30	57.7	61.8	57.3	dB(A)
21:30 – 22:30	57.8	62.5	57.4	dB(A)
22:30 – 23:30	58.1	62.1	57.6	dB(A)
23:30 – 00:30	58.2	67.5	57.7	dB(A)
00:30 – 01:30	57.8	60.5	57.4	dB(A)
01:30 – 02:30	57.8	59.7	57.4	dB(A)
02:30 – 03:30	58.0	63.6	57.4	dB(A)
03:30 – 04:30	58.2	63.1	57.5	dB(A)
04:30 – 05:30	58.3	69.3	57.7	dB(A)
05:30 – 06:30	58.0	63.8	57.5	dB(A)
06:30 – 07:30	58.7	74.8	57.6	dB(A)
07:30 – 08:30	57.6	74.6	56.6	dB(A)
08:30 – 09:30	56.8	69.3	55.9	dB(A)
L_{eq} 24 hr.	61.4	-	-	dB(A)
$L_{dn\#}$	65.5	-	-	dB(A)
Maximum	-	88.7	-	dB(A)
Standard	70 ^{1/1} , 70 ^{2/2}	115 ^{1/1} , 115 ^{2/2}	-	dB(A)

REMARK : # Test Report/Sampling marked 'Not TISI Accredited' in this report are not included in the TISI Accreditation Schedule for our laboratory

^{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)

^{1/3} Start Time

* Parameter Outside The Scope of The Registration of The Department of Industrial Works
(Ms. Thanatporn Klinsoon is Section Head, Mrs. Wanpen Lhaochindawat is Technical Management)
(Measurement By Mr. Tummarut Phosanthum)

บริษัท อีสเทิร์นไทยคอนซัลติง 1992 จำกัด

Approved By: 
(MRS. WANPEN LHAOCHINDAWAT)

19/04/2022

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TEST REPORT

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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 00209072 : Type 2

SAMPLE NO. : 05249
MEASURING DATE : 06-07/04/2022
RECEIVED DATE : 08/04/2022
REPORTED DATE : 19/04/2022

TIME \ DATE	06-07/04/2022 (L_{eq})	06-07/04/2022 (L_{max})	06-07/04/2022 ($L_{90\#}$)	UNIT
09:30 – 10:30 ²	56.9	70.0	55.7	dB(A)
10:30 – 11:30	56.5	62.1	55.4	dB(A)
11:30 – 12:30	61.4	87.9	56.4	dB(A)
12:30 – 13:30	58.3	72.0	57.4	dB(A)
13:30 – 14:30	59.0	67.9	58.2	dB(A)
14:30 – 15:30	59.5	64.8	58.7	dB(A)
15:30 – 16:30	59.4	73.2	58.4	dB(A)
16:30 – 17:30	59.4	70.3	58.5	dB(A)
17:30 – 18:30	58.5	71.8	57.9	dB(A)
18:30 – 19:30	59.0	72.5	58.4	dB(A)
19:30 – 20:30	58.7	71.8	58.1	dB(A)
20:30 – 21:30	58.4	73.2	57.8	dB(A)
21:30 – 22:30	58.2	65.3	57.7	dB(A)
22:30 – 23:30	58.1	62.5	57.6	dB(A)
23:30 – 00:30	57.6	62.2	57.1	dB(A)
00:30 – 01:30	57.8	62.8	57.3	dB(A)
01:30 – 02:30	57.8	64.6	57.3	dB(A)
02:30 – 03:30	57.8	59.4	57.4	dB(A)
03:30 – 04:30	58.1	70.3	57.5	dB(A)
04:30 – 05:30	58.1	69.2	57.7	dB(A)
05:30 – 06:30	57.9	69.0	57.4	dB(A)
06:30 – 07:30	58.2	67.1	57.2	dB(A)
07:30 – 08:30	58.7	80.5	56.8	dB(A)
08:30 – 09:30	62.5	81.3	59.3	dB(A)
L_{eq} 24 hr.	58.8	-	-	dB(A)
$L_{dn\#}$	64.6	-	-	dB(A)
Maximum	-	87.9	-	dB(A)
Standard	70 ¹ , 70 ²	115 ¹ , 115 ²	-	dB(A)

REMARK : [#] Test Report/Sampling marked 'Not TISI Accredited' in this report are not included in the TISI Accreditation Schedule for our laboratory

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
(Ms. Thanatporn Klinsoon is Section Head, Mrs. Wanpen Lhaochindawat is Technical Management)
(Measurement By Mr. Tummarut Phokankhrai)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

³ Start Time

Approved By.....
(MRS. WANPEN LHAOCHINDAWAT)

19/04/2022

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

TEST REPORT

CUSTOMER : GC Glycol Co., Ltd
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_{90H} & L_{dn}
DETERMINATION METHOD : ISO 1996-1:2016
INSTRUMENT : Integrated Sound Level Meter S/N 00209072 : Type 2


SAMPLE NO. : 05250
MEASURING DATE : 07-08/04/2022
RECEIVED DATE : 08/04/2022
REPORTED DATE : 19/04/2022

TIME \ DATE	07-08/04/2022 (L_{eq})	07-08/04/2022 (L_{max})	07-08/04/2022 (L_{90H})	UNIT
09:30 – 10:30 ¹³	62.7	89.3	59.8	dB(A)
10:30 – 11:30	62.6	83.3	59.7	dB(A)
11:30 – 12:30	57.1	70.5	55.7	dB(A)
12:30 – 13:30	58.2	78.9	56.1	dB(A)
13:30 – 14:30	63.1	82.4	59.9	dB(A)
14:30 – 15:30	63.1	89.8	60.2	dB(A)
15:30 – 16:30	64.5	87.0	61.1	dB(A)
16:30 – 17:30	63.5	84.9	60.6	dB(A)
17:30 – 18:30	61.8	82.6	58.3	dB(A)
18:30 – 19:30	59.3	84.7	57.0	dB(A)
19:30 – 20:30	57.1	72.6	56.1	dB(A)
20:30 – 21:30	56.1	65.8	55.6	dB(A)
21:30 – 22:30	56.6	63.7	56.0	dB(A)
22:30 – 23:30	56.9	66.5	56.3	dB(A)
23:30 – 00:30	57.4	68.0	56.9	dB(A)
00:30 – 01:30	57.6	64.4	57.0	dB(A)
01:30 – 02:30	57.0	60.9	56.5	dB(A)
02:30 – 03:30	57.0	62.3	56.3	dB(A)
03:30 – 04:30	56.8	63.1	56.3	dB(A)
04:30 – 05:30	56.8	60.7	56.3	dB(A)
05:30 – 06:30	57.7	70.5	56.9	dB(A)
06:30 – 07:30	59.2	85.1	57.7	dB(A)
07:30 – 08:30	65.7	92.4	61.7	dB(A)
08:30 – 09:30	64.3	84.3	57.8	dB(A)
L_{eq} 24 hr.	60.8	-	-	dB(A)
L_{dn}	64.9	-	-	dB(A)
Maximum	-	92.4	-	dB(A)
Standard	70 ¹ , 70 ²	115 ¹ , 115 ²	-	dB(A)

REMARK : # Test Report/Sampling marked 'Not TISI Accredited' in this report are not included in the TISI Accreditation Schedule for our laboratory
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
(Ms. Thanatporn Klinsonop is Section Head, Mrs. Wanpen Lhaochindawat is Technical Management)
(Measurement By Mr. Tummarut Phonakum)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

¹³ Start Time
Approved By: 
(MRS. WANPEN LHAOCHINDAWAT)

19/04/2022

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

Request No. LA65-R0429

Report No. R6504-0678

TEST REPORT

CUSTOMER : GC Glycol Co., Ltd
 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 NSMAC623690376 : Type 2

SAMPLE NO. : 05237
 MEASURING DATE : 01-02/04/2022
 RECEIVED DATE : 08/04/2022
 REPORTED DATE : 19/04/2022

TIME \ DATE	01-02/04/2022 (L_{eq})	01-02/04/2022 (L_{max})	01-02/04/2022 (L_{90})	UNIT
10:00 – 11:00 ¹⁾	65.0	75.9	64.3	dB(A)
11:00 – 12:00	65.3	72.1	64.6	dB(A)
12:00 – 13:00	65.1	72.4	64.5	dB(A)
13:00 – 14:00	65.2	72.6	64.6	dB(A)
14:00 – 15:00	65.2	73.4	64.7	dB(A)
15:00 – 16:00	65.2	73.3	64.6	dB(A)
16:00 – 17:00	65.2	71.2	64.7	dB(A)
17:00 – 18:00	65.3	66.8	64.8	dB(A)
18:00 – 19:00	65.7	68.0	65.2	dB(A)
19:00 – 20:00	65.3	71.5	64.8	dB(A)
20:00 – 21:00	65.2	71.2	64.7	dB(A)
21:00 – 22:00	65.3	75.7	64.7	dB(A)
22:00 – 23:00	65.3	66.9	64.8	dB(A)
23:00 – 00:00	65.3	66.7	64.8	dB(A)
00:00 – 01:00	65.4	66.6	64.9	dB(A)
01:00 – 02:00	65.4	66.9	64.9	dB(A)
02:00 – 03:00	65.3	66.5	64.8	dB(A)
03:00 – 04:00	65.2	66.4	64.7	dB(A)
04:00 – 05:00	65.4	66.6	64.9	dB(A)
05:00 – 06:00	66.2	71.2	65.3	dB(A)
06:00 – 07:00	65.5	67.1	65.0	dB(A)
07:00 – 08:00	65.5	71.2	65.0	dB(A)
08:00 – 09:00	65.4	67.6	64.8	dB(A)
09:00 – 10:00	65.2	68.5	64.6	dB(A)
L_{eq} 24 hr.	65.3	-	-	dB(A)
L_{dn}	71.8	-	-	dB(A)
Maximum	-	75.9	-	dB(A)
Standard	70 ¹⁾ , 70 ²⁾	115 ¹⁾ , 115 ²⁾	-	dB(A)

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

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By: 
(MRS. WANPEN LHAOCHINDAWAT)

19/04/2022

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY
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 WITHOUT THE WRITTEN APPROVAL LABORATORY

Request No. LA65-R0429

Report No. R6504-0679

TEST REPORT


CUSTOMER : GC Glycol Co., Ltd
ADDRESS : 9 Soi G-12, WHA Eastern Industrial Estate (Map Ta Phut), Pakom 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 NSMAC623690376 : Type 2

SAMPLE NO. : 05238
MEASURING DATE : 02-03/04/2022
RECEIVED DATE : 08/04/2022
REPORTED DATE : 19/04/2022

TIME \ DATE	02-03/04/2022 (L_{eq})	02-03/04/2022 (L_{max})	02-03/04/2022 (L_{90})	UNIT
10:00 – 11:00 ¹⁾	65.4	72.0	64.9	dB(A)
11:00 – 12:00	65.3	68.6	64.7	dB(A)
12:00 – 13:00	65.2	66.9	64.7	dB(A)
13:00 – 14:00	65.3	68.8	64.7	dB(A)
14:00 – 15:00	65.2	68.1	64.7	dB(A)
15:00 – 16:00	65.4	68.3	64.8	dB(A)
16:00 – 17:00	65.7	69.2	65.1	dB(A)
17:00 – 18:00	66.5	70.6	66.0	dB(A)
18:00 – 19:00	67.1	71.0	66.4	dB(A)
19:00 – 20:00	66.2	67.6	65.8	dB(A)
20:00 – 21:00	66.6	75.8	66.2	dB(A)
21:00 – 22:00	66.6	68.6	66.2	dB(A)
22:00 – 23:00	66.2	67.5	65.7	dB(A)
23:00 – 00:00	66.8	68.6	66.4	dB(A)
00:00 – 01:00	66.5	67.9	66.0	dB(A)
01:00 – 02:00	66.1	67.6	65.7	dB(A)
02:00 – 03:00	65.6	67.2	65.2	dB(A)
03:00 – 04:00	65.9	67.3	65.4	dB(A)
04:00 – 05:00	66.0	68.6	65.6	dB(A)
05:00 – 06:00	66.6	69.3	66.0	dB(A)
06:00 – 07:00	65.8	67.4	65.3	dB(A)
07:00 – 08:00	66.0	68.4	65.5	dB(A)
08:00 – 09:00	67.0	70.8	65.6	dB(A)
09:00 – 10:00	65.5	70.7	64.8	dB(A)
L_{eq} 24 hr.	66.1	-	-	dB(A)
L_{dn}	72.6	-	-	dB(A)
Maximum	-	75.8	-	dB(A)
Standard	70 ¹⁾ , 70 ²⁾	115 ¹⁾ , 115 ²⁾	-	dB(A)

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

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By 
(MRS. WANPEN LHAOCHINDAWAT)

19/04/2022

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY
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WITHOUT THE WRITTEN APPROVAL LABORATORY

Request No. LA65-R0429

Report No. R6504-0680

TEST REPORT

CUSTOMER : GC Glycol Co., Ltd
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 NSMAC623690376 : Type 2
SAMPLE NO. : 05239
MEASURING DATE : 03-04/04/2022
RECEIVED DATE : 08/04/2022
REPORTED DATE : 19/04/2022

TIME \ DATE	03-04/04/2022 (L_{eq})	03-04/04/2022 (L_{max})	03-04/04/2022 (L_{90})	UNIT
10:00 – 11:00 ¹	65.1	67.2	64.5	dB(A)
11:00 – 12:00	65.2	67.6	64.7	dB(A)
12:00 – 13:00	65.2	66.7	64.7	dB(A)
13:00 – 14:00	65.6	69.8	65.0	dB(A)
14:00 – 15:00	65.9	71.9	64.8	dB(A)
15:00 – 16:00	65.5	71.6	64.7	dB(A)
16:00 – 17:00	65.3	66.8	64.8	dB(A)
17:00 – 18:00	65.3	66.9	64.8	dB(A)
18:00 – 19:00	66.9	71.9	66.0	dB(A)
19:00 – 20:00	65.5	67.3	65.0	dB(A)
20:00 – 21:00	65.5	66.7	65.0	dB(A)
21:00 – 22:00	65.5	69.8	65.0	dB(A)
22:00 – 23:00	65.5	66.9	65.0	dB(A)
23:00 – 00:00	65.6	67.0	65.1	dB(A)
00:00 – 01:00	65.6	67.0	65.1	dB(A)
01:00 – 02:00	65.6	66.9	65.1	dB(A)
02:00 – 03:00	65.7	67.8	65.2	dB(A)
03:00 – 04:00	65.6	67.5	65.1	dB(A)
04:00 – 05:00	65.2	66.7	64.7	dB(A)
05:00 – 06:00	65.5	69.8	64.9	dB(A)
06:00 – 07:00	65.1	66.8	64.6	dB(A)
07:00 – 08:00	65.1	69.0	64.6	dB(A)
08:00 – 09:00	64.8	67.9	64.3	dB(A)
09:00 – 10:00	65.4	84.3	64.4	dB(A)
L_{eq} 24 hr.	65.5	-	-	dB(A)
L_{dn}	71.9	-	-	dB(A)
Maximum	-	84.3	-	dB(A)
Standard	70 ¹ , 70 ²	115 ¹ , 115 ²	-	dB(A)

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

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By: 
(MRS. WANPEN LHAOCHINDAWAT)

19/04/2022

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WITHOUT THE WRITTEN APPROVAL LABORATORY

Request No. LA65-R0429

Report No. R6504-0681

TEST REPORT

CUSTOMER : GC Glycol Co., Ltd
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 NSMAC623690376 : Type 2

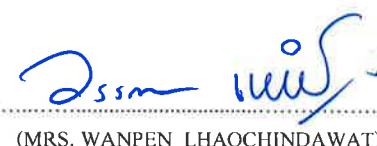
SAMPLE NO. : 05240
MEASURING DATE : 04-05/04/2022
RECEIVED DATE : 08/04/2022
REPORTED DATE : 19/04/2022

TIME \ DATE	04-05/04/2022 (L_{eq})	04-05/04/2022 (L_{max})	04-05/04/2022 (L_{90})	UNIT
10:00 – 11:00 ¹⁾	65.9	83.4	64.9	dB(A)
11:00 – 12:00	66.2	70.6	65.1	dB(A)
12:00 – 13:00	65.5	68.5	64.8	dB(A)
13:00 – 14:00	65.3	69.1	64.8	dB(A)
14:00 – 15:00	65.7	73.4	65.0	dB(A)
15:00 – 16:00	66.0	77.8	65.3	dB(A)
16:00 – 17:00	66.0	75.6	65.4	dB(A)
17:00 – 18:00	66.1	70.1	65.5	dB(A)
18:00 – 19:00	66.4	70.3	65.7	dB(A)
19:00 – 20:00	65.7	67.1	65.2	dB(A)
20:00 – 21:00	65.7	74.9	65.3	dB(A)
21:00 – 22:00	65.7	67.7	65.2	dB(A)
22:00 – 23:00	65.6	66.9	65.1	dB(A)
23:00 – 00:00	65.8	67.5	65.3	dB(A)
00:00 – 01:00	65.4	66.8	64.9	dB(A)
01:00 – 02:00	65.1	66.5	64.6	dB(A)
02:00 – 03:00	65.0	66.4	64.6	dB(A)
03:00 – 04:00	65.1	66.5	64.6	dB(A)
04:00 – 05:00	65.0	66.9	64.6	dB(A)
05:00 – 06:00	66.0	68.5	65.4	dB(A)
06:00 – 07:00	65.1	66.9	64.7	dB(A)
07:00 – 08:00	65.1	67.4	64.6	dB(A)
08:00 – 09:00	65.5	67.0	64.9	dB(A)
09:00 – 10:00	66.3	72.6	65.2	dB(A)
L_{eq} 24 hr.	65.7	-	-	dB(A)
L_{dn}	71.8	-	-	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)³⁾ Start Time* Parameter Outside The Scope of The Registration of The Department of Industrial Works
(Measurement By Mr. Tummarut Photankorn)

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By



(MRS. WANPEN LHAOCHINDAWAT)

19/04/2022

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY
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WITHOUT THE WRITTEN APPROVAL LABORATORY

Request No. LA65-R0429

Report No. R6504-0682

TEST REPORT

CUSTOMER : GC Glycol Co., Ltd
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 NSMAC623690376 : Type 2

SAMPLE NO. : 05241
MEASURING DATE : 05-06/04/2022
RECEIVED DATE : 08/04/2022
REPORTED DATE : 19/04/2022

TIME \ DATE	05-06/04/2022 (L_{eq})	05-06/04/2022 (L_{max})	05-06/04/2022 (L_{90})	UNIT
10:00 – 11:00 ¹	66.2	72.7	65.2	dB(A)
11:00 – 12:00	66.1	87.3	65.1	dB(A)
12:00 – 13:00	66.5	69.8	65.5	dB(A)
13:00 – 14:00	66.2	70.2	65.4	dB(A)
14:00 – 15:00	67.8	70.7	67.3	dB(A)
15:00 – 16:00	68.0	72.2	67.3	dB(A)
16:00 – 17:00	67.2	69.8	66.7	dB(A)
17:00 – 18:00	65.8	67.7	65.4	dB(A)
18:00 – 19:00	66.3	77.4	65.6	dB(A)
19:00 – 20:00	65.8	67.2	65.4	dB(A)
20:00 – 21:00	65.9	67.3	65.4	dB(A)
21:00 – 22:00	66.3	69.3	65.7	dB(A)
22:00 – 23:00	65.6	67.8	65.0	dB(A)
23:00 – 00:00	65.2	66.3	64.8	dB(A)
00:00 – 01:00	65.5	67.9	65.0	dB(A)
01:00 – 02:00	66.3	69.8	65.7	dB(A)
02:00 – 03:00	65.3	67.2	64.9	dB(A)
03:00 – 04:00	65.3	67.0	64.9	dB(A)
04:00 – 05:00	65.4	66.6	64.9	dB(A)
05:00 – 06:00	66.6	71.0	65.9	dB(A)
06:00 – 07:00	65.5	66.5	65.0	dB(A)
07:00 – 08:00	65.6	68.5	65.1	dB(A)
08:00 – 09:00	65.8	69.3	65.2	dB(A)
09:00 – 10:00	66.5	70.2	65.7	dB(A)
L_{eq} 24 hr.	66.2	-	-	dB(A)
L_{dn}	72.2	-	-	dB(A)
Maximum	-	87.3	-	dB(A)
Standard	70 ¹ , 70 ²	115 ¹ , 115 ²	-	dB(A)

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

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By

(MRS. WANPEN LHAOCHINDAWAT)

19/04/2022

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY
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WITHOUT THE WRITTEN APPROVAL LABORATORY

Request No. LA65-R0429

Report No. R6504-0683

TEST REPORT

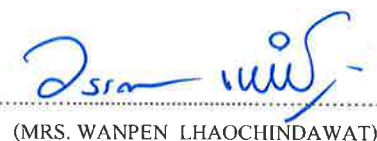
CUSTOMER : GC Glycol Co., Ltd
ADDRESS : 9 Soi G-12, WHA Eastern Industrial Estate (Map Ta Phut), Pakorn Songkhraorat Road,
Tambon Map Ta Phut, Amphur Muang Rayong, Rayong 21150
SAMPLE SOURCE : EA Plant
SAMPLE POINT : บริเวณริมรั้วด้านทิศเหนือ
PARAMETER* : L_{eq} 1 hr., L_{eq} 24 hr., L_{max} , L_{90} & L_{dn}
DETERMINATION METHOD : ISO 1996-1:2016
INSTRUMENT : Integrated Sound Level Meter ;
S/N NSMAC623690376 : Type 2
SAMPLE NO. : 05242
MEASURING DATE : 06-07/04/2022
RECEIVED DATE : 08/04/2022
REPORTED DATE : 19/04/2022

TIME \ DATE	06-07/04/2022 (L_{eq})	06-07/04/2022 (L_{max})	06-07/04/2022 (L_{90})	UNIT
10:00 – 11:00 ¹³	65.6	68.9	65.0	dB(A)
11:00 – 12:00	66.6	83.2	65.2	dB(A)
12:00 – 13:00	66.7	75.2	66.2	dB(A)
13:00 – 14:00	67.6	80.4	67.1	dB(A)
14:00 – 15:00	68.0	80.1	66.9	dB(A)
15:00 – 16:00	68.5	78.5	67.3	dB(A)
16:00 – 17:00	67.6	70.7	67.2	dB(A)
17:00 – 18:00	66.2	78.2	65.5	dB(A)
18:00 – 19:00	65.7	69.8	65.0	dB(A)
19:00 – 20:00	65.2	66.8	64.7	dB(A)
20:00 – 21:00	65.3	66.5	64.8	dB(A)
21:00 – 22:00	65.4	67.4	64.8	dB(A)
22:00 – 23:00	65.3	66.5	64.8	dB(A)
23:00 – 00:00	65.3	66.5	64.8	dB(A)
00:00 – 01:00	64.9	66.2	64.5	dB(A)
01:00 – 02:00	65.0	66.3	64.6	dB(A)
02:00 – 03:00	65.1	66.3	64.6	dB(A)
03:00 – 04:00	65.4	66.9	65.0	dB(A)
04:00 – 05:00	65.5	66.9	65.1	dB(A)
05:00 – 06:00	66.9	73.5	65.9	dB(A)
06:00 – 07:00	65.2	66.8	64.8	dB(A)
07:00 – 08:00	65.1	66.7	64.7	dB(A)
08:00 – 09:00	65.1	67.5	64.6	dB(A)
09:00 – 10:00	65.2	74.0	64.6	dB(A)
L_{eq} 24 hr.	66.1	-	-	dB(A)
L_{dn}	72.0	-	-	dB(A)
Maximum	-	83.2	-	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 Phonakham)

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By



(MRS. WANPEN LHAOCHINDAWAT)

19/04/2022

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

Request No. LA65-R0429

Report No. R6504-0684

TEST REPORT

CUSTOMER : GC Glycol Co., Ltd
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 NSMAC623690376 : Type 2

SAMPLE NO. : 05243
MEASURING DATE : 07-08/04/2022
RECEIVED DATE : 08/04/2022
REPORTED DATE : 19/04/2022

TIME \ DATE	07-08/04/2022 (L_{eq})	07-08/04/2022 (L_{max})	07-08/04/2022 (L_{90})	UNIT
10:00 – 11:00 ¹	65.2	68.4	64.6	dB(A)
11:00 – 12:00	65.2	67.3	64.7	dB(A)
12:00 – 13:00	65.3	70.0	64.7	dB(A)
13:00 – 14:00	65.3	69.3	64.7	dB(A)
14:00 – 15:00	65.5	68.5	64.9	dB(A)
15:00 – 16:00	65.4	67.1	64.9	dB(A)
16:00 – 17:00	65.5	66.9	65.0	dB(A)
17:00 – 18:00	65.6	66.7	65.1	dB(A)
18:00 – 19:00	65.8	68.9	65.1	dB(A)
19:00 – 20:00	65.4	67.2	65.0	dB(A)
20:00 – 21:00	65.4	66.8	64.9	dB(A)
21:00 – 22:00	65.4	67.5	65.0	dB(A)
22:00 – 23:00	65.4	66.5	65.0	dB(A)
23:00 – 00:00	65.1	66.5	64.6	dB(A)
00:00 – 01:00	65.1	66.4	64.7	dB(A)
01:00 – 02:00	65.3	66.7	64.8	dB(A)
02:00 – 03:00	65.1	66.4	64.6	dB(A)
03:00 – 04:00	64.9	66.2	64.5	dB(A)
04:00 – 05:00	65.0	66.2	64.5	dB(A)
05:00 – 06:00	66.7	73.7	65.0	dB(A)
06:00 – 07:00	65.0	66.3	64.5	dB(A)
07:00 – 08:00	64.9	66.7	64.5	dB(A)
08:00 – 09:00	65.1	66.9	64.6	dB(A)
09:00 – 10:00	65.2	68.9	64.5	dB(A)
L_{eq} 24 hr.	65.3	-	-	dB(A)
L_{dn}	71.7	-	-	dB(A)
Maximum	-	73.7	-	dB(A)
Standard	70 ¹ , 70 ²	115 ¹ , 115 ²	-	dB(A)

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

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By 
(MRS. WANPEN LHAOCHINDAWAT)

19/04/2022

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY
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WITHOUT THE WRITTEN APPROVAL LABORATORY

TEST REPORT

CUSTOMER : GC Glycol Co., Ltd
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 00443359 : Type 2

SAMPLE NO. : 05251
MEASURING DATE : 01-02/04/2022
RECEIVED DATE : 08/04/2022
REPORTED DATE : 19/04/2022

TIME \ DATE	01-02/04/2022 (L_{eq})	01-02/04/2022 (L_{max})	01-02/04/2022 ($L_{90\#}$)	UNIT
09:50 – 10:50 ³	64.5	68.3	64.1	dB(A)
10:50 – 11:50	64.5	83.1	63.6	dB(A)
11:50 – 12:50	66.5	88.4	63.0	dB(A)
12:50 – 13:50	65.6	86.5	62.4	dB(A)
13:50 – 14:50	63.0	67.1	62.3	dB(A)
14:50 – 15:50	66.0	86.9	63.0	dB(A)
15:50 – 16:50	63.7	75.4	62.9	dB(A)
16:50 – 17:50	65.0	76.0	64.2	dB(A)
17:50 – 18:50	64.9	69.2	64.2	dB(A)
18:50 – 19:50	64.0	68.4	63.3	dB(A)
19:50 – 20:50	63.4	68.5	62.8	dB(A)
20:50 – 21:50	63.3	66.6	62.7	dB(A)
21:50 – 22:50	63.4	81.8	62.8	dB(A)
22:50 – 23:50	63.5	67.2	63.0	dB(A)
23:50 – 00:50	63.7	66.9	63.2	dB(A)
00:50 – 01:50	63.5	66.3	63.0	dB(A)
01:50 – 02:50	63.6	66.5	63.1	dB(A)
02:50 – 03:50	63.8	66.7	63.3	dB(A)
03:50 – 04:50	64.0	68.6	63.5	dB(A)
04:50 – 05:50	63.8	66.7	63.4	dB(A)
05:50 – 06:50	63.9	66.3	63.4	dB(A)
06:50 – 07:50	64.4	67.7	63.9	dB(A)
07:50 – 08:50	64.2	70.2	63.7	dB(A)
08:50 – 09:50	63.4	66.5	62.9	dB(A)
L_{eq} 24 hr.	64.2	-	-	dB(A)
$L_{dn\#}$	70.2	-	-	dB(A)
Maximum	-	88.4	-	dB(A)
Standard	70 ¹ , 70 ²	115 ¹ , 115 ²	-	dB(A)

REMARK : [#] Test Report/Sampling marked 'Not TISI Accredited' in this report are not included in the TISI Accreditation Schedule for our laboratory

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
(Ms. Thanatporn Klinsonop is Section Head, Ms. Wanpen Lhaochindawat is Technical Management)
(Measurement By Mr. Tummarut Photanrakum)



บริษัท อีสเทิร์นไทยคอนซัลติง 1992 จำกัด

³ Start Time

Approved By: 
(MRS. WANPEN LHAOCHINDAWAT)

19/04/2022

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY
THIS REPORT SHALL NOT REPRODUCED EXCEPT IN FULL
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TEST REPORT

CUSTOMER : GC Glycol Co., Ltd
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 00443359 : Type 2

SAMPLE NO. : 05252
MEASURING DATE : 02-03/04/2022
RECEIVED DATE : 08/04/2022
REPORTED DATE : 19/04/2022

TIME \ DATE	02-03/04/2022 (L_{eq})	02-03/04/2022 (L_{max})	02-03/04/2022 ($L_{90\#}$)	UNIT
09:50 – 10:50 ¹³	64.6	71.9	64.0	dB(A)
10:50 – 11:50	65.4	69.2	64.7	dB(A)
11:50 – 12:50	64.9	68.1	64.2	dB(A)
12:50 – 13:50	65.8	68.8	65.1	dB(A)
13:50 – 14:50	65.2	69.1	64.5	dB(A)
14:50 – 15:50	65.6	71.1	64.9	dB(A)
15:50 – 16:50	66.0	70.1	65.4	dB(A)
16:50 – 17:50	66.5	69.6	65.8	dB(A)
17:50 – 18:50	66.5	71.6	65.8	dB(A)
18:50 – 19:50	67.0	69.9	66.4	dB(A)
19:50 – 20:50	66.7	71.4	66.0	dB(A)
20:50 – 21:50	66.7	70.0	66.1	dB(A)
21:50 – 22:50	66.9	72.9	66.3	dB(A)
22:50 – 23:50	67.0	74.8	66.4	dB(A)
23:50 – 00:50	67.6	70.3	67.0	dB(A)
00:50 – 01:50	67.3	72.4	66.6	dB(A)
01:50 – 02:50	67.2	71.0	66.6	dB(A)
02:50 – 03:50	67.3	69.9	66.7	dB(A)
03:50 – 04:50	67.4	70.5	66.7	dB(A)
04:50 – 05:50	67.0	69.8	66.3	dB(A)
05:50 – 06:50	66.7	69.2	66.1	dB(A)
06:50 – 07:50	66.7	70.5	66.1	dB(A)
07:50 – 08:50	67.0	78.4	66.4	dB(A)
08:50 – 09:50	68.0	91.5	66.3	dB(A)
L_{eq} 24 hr.	66.6	-	-	dB(A)
$L_{dn\#}$	73.5	-	-	dB(A)
Maximum	-	91.5	-	dB(A)
Standard	70 ¹¹ , 70 ¹²	115 ¹¹ , 115 ¹²	-	dB(A)

REMARK : # Test Report/Sampling marked 'Not TISI Accredited' in this report are not included in the TISI Accreditation Schedule for our laboratory
¹¹ Notification of Office of The National Environmental Board Volume 15 B.E. 2540 (1997)
¹² Notification of Ministry of the Industry B.J. 2543 (2005)
* Parameter Outside The Scope of The Registration of The Department of Industrial Works
(Ms. Thanatporn Klinsonop is Section Head, Mrs. Wanpen Lhaochindawat is Technical Management)
(Measurement By Mr. Tummarut Photanekham)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By: 
(MRS. WANPEN LHAOCHINDAWAT)

19/04/2022

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY
THIS REPORT SHALL NOT REPRODUCED EXCEPT IN FULL
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TEST REPORT

CUSTOMER : GC Glycol Co., Ltd
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_{90H} & L_{dnf}
DETERMINATION METHOD : ISO 1996-1:2016
INSTRUMENT : Integrated Sound Level Meter S/N 00443359 : Type 2


SAMPLE NO. : 05253
MEASURING DATE : 03-04/04/2022
RECEIVED DATE : 08/04/2022
REPORTED DATE : 19/04/2022

TIME \ DATE	03-04/04/2022 (L_{eq})	03-04/04/2022 (L_{max})	03-04/04/2022 (L_{90H})	UNIT
09:50 – 10:50 ¹⁾	66.3	70.3	65.7	dB(A)
10:50 – 11:50	65.7	68.6	65.1	dB(A)
11:50 – 12:50	66.1	73.5	65.4	dB(A)
12:50 – 13:50	65.7	68.5	65.0	dB(A)
13:50 – 14:50	65.6	68.2	64.9	dB(A)
14:50 – 15:50	65.0	68.8	64.3	dB(A)
15:50 – 16:50	65.0	68.9	64.4	dB(A)
16:50 – 17:50	65.4	68.1	64.7	dB(A)
17:50 – 18:50	65.6	69.0	65.0	dB(A)
18:50 – 19:50	65.7	69.5	65.0	dB(A)
19:50 – 20:50	66.2	70.2	65.5	dB(A)
20:50 – 21:50	66.1	68.4	65.4	dB(A)
21:50 – 22:50	66.3	69.2	65.7	dB(A)
22:50 – 23:50	66.5	69.3	65.8	dB(A)
23:50 – 00:50	66.4	68.9	65.7	dB(A)
00:50 – 01:50	66.6	68.7	66.0	dB(A)
01:50 – 02:50	66.6	69.1	65.9	dB(A)
02:50 – 03:50	66.6	69.4	65.9	dB(A)
03:50 – 04:50	66.6	69.4	65.9	dB(A)
04:50 – 05:50	66.7	69.6	66.1	dB(A)
05:50 – 06:50	66.8	69.9	66.2	dB(A)
06:50 – 07:50	66.5	70.7	65.9	dB(A)
07:50 – 08:50	65.8	69.0	65.1	dB(A)
08:50 – 09:50	65.1	79.0	64.1	dB(A)
L_{eq} 24 hr.	66.1	-	-	dB(A)
L_{dnf}	72.9	-	-	dB(A)
Maximum	-	79.0	-	dB(A)
Standard	70 ¹⁾ , 70 ²⁾	115 ¹⁾ , 115 ²⁾	-	dB(A)

REMARK : # Test Report/Sampling marked 'Not TISI Accredited' in this report are not included in the TISI Accreditation Schedule for our laboratory
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
(Ms. Thanatporn Klinsoon is Section Head, Mrs. Wanpen Lhaochindawat is Technical Management)
(Measurement By Mr. Tummarut Phoomchum)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

³⁾ Start Time
Approved By: 
(MRS. WANPEN LHAOCHINDAWAT)

19/04/2022

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY
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WITHOUT THE WRITTEN APPROVAL LABORATORY

TEST REPORT

CUSTOMER : GC Glycol Co., Ltd
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 00443359 : Type 2

SAMPLE NO. : 05254
MEASURING DATE : 04-05/04/2022
RECEIVED DATE : 08/04/2022
REPORTED DATE : 19/04/2022

TIME \ DATE	04-05/04/2022 (L_{eq})	04-05/04/2022 (L_{max})	04-05/04/2022 ($L_{90\#}$)	UNIT
09:50 – 10:50 ¹³	64.8	83.6	63.7	dB(A)
10:50 – 11:50	67.7	89.1	63.5	dB(A)
11:50 – 12:50	65.4	87.2	63.0	dB(A)
12:50 – 13:50	65.4	87.6	63.2	dB(A)
13:50 – 14:50	65.6	85.5	63.6	dB(A)
14:50 – 15:50	64.6	76.8	63.8	dB(A)
15:50 – 16:50	65.9	76.5	65.2	dB(A)
16:50 – 17:50	65.5	70.0	64.8	dB(A)
17:50 – 18:50	64.3	68.4	63.8	dB(A)
18:50 – 19:50	64.2	69.4	63.7	dB(A)
19:50 – 20:50	64.3	82.7	63.6	dB(A)
20:50 – 21:50	64.3	67.1	63.7	dB(A)
21:50 – 22:50	64.5	67.7	64.0	dB(A)
22:50 – 23:50	64.5	67.4	63.9	dB(A)
23:50 – 00:50	64.6	67.3	64.0	dB(A)
00:50 – 01:50	64.9	67.7	64.4	dB(A)
01:50 – 02:50	64.9	68.0	64.4	dB(A)
02:50 – 03:50	65.1	69.7	64.6	dB(A)
03:50 – 04:50	64.9	67.8	64.5	dB(A)
04:50 – 05:50	65.0	67.6	64.5	dB(A)
05:50 – 06:50	65.2	68.5	64.7	dB(A)
06:50 – 07:50	65.0	71.4	64.5	dB(A)
07:50 – 08:50	64.4	67.6	63.9	dB(A)
08:50 – 09:50	64.5	67.6	64.0	dB(A)
L_{eq} 24 hr.	65.0	-	-	dB(A)
$L_{dn\#}$	71.3	-	-	dB(A)
Maximum	-	89.1	-	dB(A)
Standard	70 ¹¹ , 70 ¹²	115 ¹¹ , 115 ¹²	-	dB(A)

REMARK : [#] Test Report/Sampling marked 'Not TISI Accredited' in this report are not included in the TISI Accreditation Schedule for our laboratory

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
(Ms. Thanatporn Klinsonop is Section Head, Mrs. Wanpen Lhaochindawat is Technical Management)
(Measurement By Mr. Tummarut Phatthakham)

¹³ Start Time



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By: 
(MRS. WANPEN LHAOCHINDAWAT)

19/04/2022

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY
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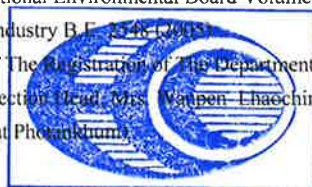
TEST REPORT

CUSTOMER : GC Glycol Co., Ltd
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 00443359 : Type 2

SAMPLE NO. : 05255
MEASURING DATE : 05-06/04/2022
RECEIVED DATE : 08/04/2022
REPORTED DATE : 19/04/2022

TIME \ DATE	05-06/04/2022 (L_{eq})	05-06/04/2022 (L_{max})	05-06/04/2022 ($L_{90\%}$)	UNIT
09:50 – 10:50 ¹⁾	64.7	71.2	64.0	dB(A)
10:50 – 11:50	64.3	67.9	63.6	dB(A)
11:50 – 12:50	64.8	68.1	64.1	dB(A)
12:50 – 13:50	64.0	67.9	63.3	dB(A)
13:50 – 14:50	64.2	69.9	63.6	dB(A)
14:50 – 15:50	64.5	67.8	63.9	dB(A)
15:50 – 16:50	65.3	68.9	64.7	dB(A)
16:50 – 17:50	65.9	71.1	65.3	dB(A)
17:50 – 18:50	66.1	69.4	65.5	dB(A)
18:50 – 19:50	66.5	69.2	65.9	dB(A)
19:50 – 20:50	66.1	70.9	65.5	dB(A)
20:50 – 21:50	66.3	72.4	65.7	dB(A)
21:50 – 22:50	66.5	71.8	65.8	dB(A)
22:50 – 23:50	66.5	74.3	65.8	dB(A)
23:50 – 00:50	67.0	69.6	66.4	dB(A)
00:50 – 01:50	66.7	71.8	66.0	dB(A)
01:50 – 02:50	66.6	70.4	66.0	dB(A)
02:50 – 03:50	66.8	69.4	66.1	dB(A)
03:50 – 04:50	66.6	69.9	65.9	dB(A)
04:50 – 05:50	66.3	69.1	65.6	dB(A)
05:50 – 06:50	65.8	69.4	65.1	dB(A)
06:50 – 07:50	65.7	68.2	65.1	dB(A)
07:50 – 08:50	66.0	77.3	65.4	dB(A)
08:50 – 09:50	65.7	82.3	64.9	dB(A)
L_{eq} 24 hr.	65.9	-	-	dB(A)
$L_{dn\#}$	72.8	-	-	dB(A)
Maximum	-	82.3	-	dB(A)
Standard	70 ¹⁾ , 70 ²⁾	115 ¹⁾ , 115 ²⁾	-	dB(A)

REMARK : # Test Report/Sampling marked 'Not TISI Accredited' in this report are not included in the TISI Accreditation Schedule for our laboratory
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 (1995)
 * Parameter Outside The Scope of The Registration of The Department of Industrial Works
 (Ms. Thanatporn Klinsonop is Section Head, Mrs. Wanpen Lhaochindawat is Technical Management)
 (Measurement By Mr. Tummarut Phetankhum)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

¹⁾ Start Time
 Approved By.....
 (MRS. WANPEN LHAOCHINDAWAT)

19/04/2022

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY
 THIS REPORT SHALL NOT REPRODUCED EXCEPT IN FULL
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TEST REPORT

CUSTOMER : GC Glycol Co., Ltd
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 00443359 : Type 2
SAMPLE NO. : 05256
MEASURING DATE : 06-07/04/2022
RECEIVED DATE : 08/04/2022
REPORTED DATE : 19/04/2022

TIME \ DATE	06-07/04/2022 (L_{eq})	06-07/04/2022 (L_{max})	06-07/04/2022 ($L_{90\#}$)	UNIT
09:50 – 10:50 ^{1/3}	64.7	69.6	64.1	dB(A)
10:50 – 11:50	63.9	68.8	63.4	dB(A)
11:50 – 12:50	64.9	69.4	64.3	dB(A)
12:50 – 13:50	65.7	68.5	65.0	dB(A)
13:50 – 14:50	65.3	68.0	64.7	dB(A)
14:50 – 15:50	64.8	68.5	64.2	dB(A)
15:50 – 16:50	65.0	76.2	64.4	dB(A)
16:50 – 17:50	65.0	68.0	64.4	dB(A)
17:50 – 18:50	66.3	75.1	65.1	dB(A)
18:50 – 19:50	65.0	69.9	64.5	dB(A)
19:50 – 20:50	65.0	68.1	64.5	dB(A)
20:50 – 21:50	64.9	67.8	64.4	dB(A)
21:50 – 22:50	64.9	67.6	64.4	dB(A)
22:50 – 23:50	65.0	69.1	64.5	dB(A)
23:50 – 00:50	65.2	68.7	64.7	dB(A)
00:50 – 01:50	65.4	68.2	64.9	dB(A)
01:50 – 02:50	65.0	68.1	64.5	dB(A)
02:50 – 03:50	65.0	67.6	64.5	dB(A)
03:50 – 04:50	65.0	68.1	64.5	dB(A)
04:50 – 05:50	65.2	70.0	64.5	dB(A)
05:50 – 06:50	65.6	72.2	65.1	dB(A)
06:50 – 07:50	65.1	71.7	64.6	dB(A)
07:50 – 08:50	64.9	68.7	64.4	dB(A)
08:50 – 09:50	64.8	71.5	64.3	dB(A)
L_{eq} 24 hr.	65.1	-	-	dB(A)
$L_{dn\#}$	71.5	-	-	dB(A)
Maximum	-	76.2	-	dB(A)
Standard	70 ^{1/1} , 70 ^{2/2}	115 ^{1/1} , 115 ^{2/2}	-	dB(A)

REMARK : * Test Report/Sampling marked 'Not TISI Accredited' in this report are not included in the TISI Accreditation Schedule for our laboratory

^{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
(Ms. Thanatporn Klinsonop is Section Head, Mrs. Wanpen Lhaochindawat is Technical Management)
(Measurement By Mr. Tummarut Phonadichum)



บริษัท อีสเทิร์นไทยคอนซัลติง 1992 จำกัด

Approved By: 
(MRS. WANPEN LHAOCHINDAWAT)

19/04/2022

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY
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WITHOUT THE WRITTEN APPROVAL LABORATORY

TEST REPORT

CUSTOMER : GC Glycol Co., Ltd
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 00443359 : Type 2

SAMPLE NO. : 05257
MEASURING DATE : 07-08/04/2022
RECEIVED DATE : 08/04/2022
REPORTED DATE : 19/04/2022

TIME \ DATE	07-08/04/2022 (L_{eq})	07-08/04/2022 (L_{max})	07-08/04/2022 ($L_{90\%}$)	UNIT
09:50 – 10:50 ³	64.5	68.7	63.9	dB(A)
10:50 – 11:50	64.2	69.8	63.6	dB(A)
11:50 – 12:50	64.2	68.8	63.6	dB(A)
12:50 – 13:50	64.1	69.4	63.5	dB(A)
13:50 – 14:50	64.3	73.0	63.8	dB(A)
14:50 – 15:50	64.6	68.3	64.1	dB(A)
15:50 – 16:50	65.0	69.8	64.5	dB(A)
16:50 – 17:50	65.1	68.5	64.6	dB(A)
17:50 – 18:50	65.3	68.8	64.7	dB(A)
18:50 – 19:50	65.4	69.1	64.8	dB(A)
19:50 – 20:50	65.2	68.4	64.8	dB(A)
20:50 – 21:50	65.3	67.8	64.9	dB(A)
21:50 – 22:50	65.3	67.7	64.9	dB(A)
22:50 – 23:50	65.4	68.1	65.0	dB(A)
23:50 – 00:50	65.5	68.7	65.1	dB(A)
00:50 – 01:50	65.5	68.2	65.1	dB(A)
01:50 – 02:50	65.4	68.1	65.0	dB(A)
02:50 – 03:50	65.5	68.0	65.0	dB(A)
03:50 – 04:50	65.4	68.2	65.0	dB(A)
04:50 – 05:50	65.5	67.9	65.1	dB(A)
05:50 – 06:50	65.6	69.9	65.2	dB(A)
06:50 – 07:50	65.4	68.7	64.9	dB(A)
07:50 – 08:50	65.0	68.8	64.6	dB(A)
08:50 – 09:50	64.8	67.9	64.3	dB(A)
L_{eq} 24 hr.	65.1	-	-	dB(A)
$L_{dn\#}$	71.8	-	-	dB(A)
Maximum	-	73.0	-	dB(A)
Standard	70 ¹ , 70 ²	115 ¹ , 115 ²	-	dB(A)

REMARK : # Test Report/Sampling marked 'Not TISI Accredited' in this report are not included in the TISI Accreditation Schedule for our laboratory
¹ Notification of Office of The National Environmental Board Volume 15 B.E. 2540 (1997)
² Notification of Ministry of the Industry B.E. 2543 (2005)
³ Start Time
 * Parameter Outside The Scope of The Registration of The Department of Industrial Works
 (Ms. Thanatporn Klinsonon is Section Head, Mr. Wanpen Lhaochindawat is Technical Management)
 (Measurement By Mr. Tummarat Pholankhump)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By: 
 (MRS. WANPEN LHAOCHINDAWAT)

19/04/2022

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PTT GLOBAL CHEMICAL PUBLIC COMPANY LIMITED

LABORATORY OPERATION SERVICES, Laboratory Operations I

Branch 9 : 24/9 Pakorn Songkrorat Road, Map Ta Phut, Mueang Rayong, Rayong 21150 Thailand

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Page 1 of 1

LABORATORY ANALYSIS REPORT FOR		Report No. : LAR-ENV-2202-01385
STORM WATER DIVERSION BOX GC GLYCOL		Job No. : -
		Replacement for Report No. : -
Customer / Requester : GC Glycol Company Limited		For : -
Address :	9/1 Soi G-12 Hemaraj Eastern Industrial Estate, Pakorn Songkhraorat Road, Tambon Map Ta Phut, Amphur Muang Rayong, Rayong 21150	
Telephone :	0-3897-7070	Fax : 038-977079
Contact Name :	E-GC-OP2	Email : Wuttipong.H@pttgcgroup.com

Sample Description

Sample ID : EG2-ENV-R-2201020120 **Sampling Point :** TK 301
Sample Name/Type : Storm Water Diversion box
Sampling By : Watcharin,GC Glycol **Sampling Date/Time :** January 12, 2022 / 09:00
Received Date : January 12, 2022 / 10:39 **Test Date :** January 12, 2022
Sample Condition : Light Yellow Liquid / Amber Glass Bottle

Test Item	Test Method	Unit	Specification	Result	Note
pH @ 25 °C	APHA 4500 -H+B (Edition 22nd, 2012)	pH unit	Report	8.6	
Biochemical Oxygen Demand	APHA 5210 B (Edition 22nd, 2012)	mg/L	750 max	29	
Chemical Oxygen Demand	APHA 5220 D (Edition 22nd, 2012)	mg/L	1000 max	52	
Oil & Grease	Gravimetric Method	mg/L	10 max	0.7	
Total Suspended Solids	APHA 2540 D (Edition 22nd, 2012)	mg/L	200 max	8.0	
Total Dissolve Solids	APHA 2540 C (Edition 22nd, 2012)	mg/L	3000 max	178	
Total Nitrogen (TKN) as N	APHA 4500 Norg B (Edition 22nd, 2012)	mg/L	Report	24.6	
Ammonia as Nitrogen	APHA 4500 NH3 C (Edition 22nd, 2012)	mg/L	Report	8.0	01
Formaldehyde	ASTM D6303-98	mg/L	Report	0.2	
Temperature	APHA 2550 A (Edition 22nd, 2012)	°C	40 max	25.0	

Notes :

01 รายการนี้อยู่นอกขอบข่ายการขอการรับรองจากกรมโรงงานอุตสาหกรรม

Reported By :

๖-226-๖-6625

(Miss Watcharin Srijula)
(Laboratory Analyst)

Issued Date :

February 23, 2022

Approved By :

๖-226-๓-7912

(Mr. Nattakrit Sirikham)
(Senior Chemist)

Approved Date :

February 23, 2022

Remark :

- Reported results are as-received sample which is in good conditions, no contamination and shall be drawn using appropriate sampling procedure by non-laboratory staff except mentioned in the reference document.
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- For purposed of determining conformance with these specifications, an observed of a calculated result shall be rounded, in accordance with the rounding method of ASTM Practice E29, for Using Significant Digits in Test Data to Determine Conformance with Specifications.



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LABORATORY OPERATION SERVICES, Laboratory Operations I

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Page 1 of 1

LABORATORY ANALYSIS REPORT FOR		Report No. : LAR-ENV-2205-00705
STORM WATER DIVERSION BOX GC GLYCOL		Job No. : -
Customer / Requester : GC Glycol Company Limited		For : -
Address :	9/1 Soi G-12 Hemaraj Eastern Industrial Estate, Pakorn Songkhraorat Road, Tambon Map Ta Phut, Amphur Muang Rayong, Rayong 21150	
Telephone :	0-3897-7070	Fax : 038-977079
Contact Name :	E-GC-OP2	Email : Wuttipong.H@pttgcgroup.com

Sample Description

Sample ID : EG2-ENV-R-2204022090 **Sampling Point :** TK 301
Sample Name/Type : Storm Water Diversion box
Sampling By : Watcharin, GC Glycol **Sampling Date/Time :** April 13, 2022 / 09:00
Received Date : April 13, 2022 / 10:10 **Test Date :** April 13, 2022
Sample Condition : Clear Liquid / Amber Glass Bottle

Test Item	Test Method	Unit	Specification	Result	Note
pH @ 25 °C	APHA 4500 -H+B (Edition 23nd, 2017)	pH unit	Report	7.6	
Biochemical Oxygen Demand	APHA 5210 B (Edition 23nd, 2017)	mg/L	750 max	332	01
Chemical Oxygen Demand	APHA 5220 D (Edition 23nd, 2017)	mg/L	1000 max	77	
Oil & Grease	Gravimetric Method	mg/L	10 max	<0.5	
Total Suspended Solids	APHA 2540 D (Edition 23nd, 2017)	mg/L	200 max	54	01
Total Dissolve Solids	APHA 2540 C (Edition 23nd, 2017)	mg/L	3000 max	136	
Total Nitrogen (TKN) as N	APHA 4500 Norg B (Edition 23nd, 2017)	mg/L	Report	15.5	
Ammonia as Nitrogen	APHA 4500 NH3 C (Edition 23nd, 2017)	mg/L	Report	0.0	01
Formaldehyde	ASTM D6303-98	mg/L	Report	<0.2	
Temperature	APHA 2550 A (Edition 23nd, 2017)	°C	40 max	25.0	

Notes :

01 รายการนี้อยู่นอกขอบข่ายการรับรองจากกรมโรงงานอุตสาหกรรม

Reported By :

ว-226-จ-6625

(Miss Watcharin Srijula)
(Laboratory Analyst)

Issued Date :

May 12, 2022

Approved By :

ว-226-ค-7912

(Mr. Nattakrit Sirikham)
(Senior Chemist)

Approved Date :

May 12, 2022

Remark :

1. Reported results are as-received sample which is in good conditions, no contamination and shall be drawn using appropriate sampling procedure by non-laboratory staff except mentioned in the reference document.
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4. For purposed of determining conformance with these specifications, an observed of a calculated result shall be rounded, in accordance with the rounding method of ASTM Practice E29, for Using Significant Digits in Test Data to Determine Conformance with Specifications.



PTT GLOBAL CHEMICAL PUBLIC COMPANY LIMITED

LABORATORY OPERATION SERVICES, Laboratory Operations I

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Page 1 of 1

LABORATORY ANALYSIS REPORT FOR		Report No. : LAR-ENV-2205-01178
STORM WATER DIVERSION BOX GC GLYCOL		Job No. : -
		Replacement for Report No. : -
Customer / Requester : GC Glycol Company Limited	For : -	
Address : 9/1 Soi G-12 Hemaraj Eastern Industrial Estate, Pakorn Songkhraorat Road, Tambon Map Ta Phut, Amphur Muang Rayong, Rayong 21150		
Telephone : 0-3897-7070	Fax : 038-977079	
Contact Name : E-GC-OP2	Email : Wuttipong.H@pttgcgroup.com	

Sample Description

Sample ID : EG2-ENV-R-2205019002	Sampling Point : TK 301
Sample Name/Type : Storm Water Diversion box	
Sampling By : GC Glycol, Watcharin	Sampling Date/Time : May 11, 2022 / 09:00
Received Date : May 11, 2022 / 10:47	Test Date : May 11, 2022
Sample Condition : Clear Liquid / Amber Glass Bottle	

Test Item	Test Method	Unit	Specification	Result	Note
pH @ 25 °C	APHA 4500 -H+B (Edition 23nd, 2017)	pH unit	Report	7.3	
Biochemical Oxygen Demand	APHA 5210 B (Edition 23nd, 2017)	mg/L	750 max	54	01
Chemical Oxygen Demand	APHA 5220 D (Edition 23nd, 2017)	mg/L	1000 max	139	
Oil & Grease	Gravimetric Method	mg/L	10 max	0.5	
Total Suspended Solids	APHA 2540 D (Edition 23nd, 2017)	mg/L	200 max	44	01
Total Dissolve Solids	APHA 2540 C (Edition 23nd, 2017)	mg/L	3000 max	102	
Total Nitrogen (TKN) as N	APHA 4500 Norg B (Edition 23nd, 2017)	mg/L	Report	22.5	
Ammonia as Nitrogen	APHA 4500 NH3 C (Edition 23nd, 2017)	mg/L	Report	12.0	01
Formaldehyde	ASTM D6303-98	mg/L	Report	<0.2	
Temperature	APHA 2550 A (Edition 23nd, 2017)	°C	40 max	25.0	

Notes :

01 รายการนี้อยู่นอกขอบข่ายการขอการรับรองจากกรมโรงงานอุตสาหกรรม

Reported By :

ว-226-จ-6625

(Miss Watcharin Srijula)
(Laboratory Analyst)

Issued Date :

May 20, 2022

Approved By :

ว-226-ค-7912

(Mr. Nattakrit Sirikham)
(Senior Chemist)

Approved Date :

May 20, 2022

Remark :

- Reported results are as-received sample which is in good conditions, no contamination and shall be drawn using appropriate sampling procedure by non-laboratory staff except mentioned in the reference document.
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LABORATORY OPERATION SERVICES, Laboratory Operations I

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Page 1 of 1

LABORATORY ANALYSIS REPORT FOR		Report No. : LAR-ENV-2206-01043
STORM WATER DIVERSION BOX GC GLYCOL		Job No. : -
Customer / Requester : GC Glycol Company Limited		For : -
Address :	9/1 Soi G-12 Hemaraj Eastern Industrial Estate, Pakorn Songkhraorat Road, Tambon Map Ta Phut, Amphur Muang Rayong, Rayong 21150	
Telephone :	0-3897-7070	Fax : 038-977079
Contact Name :	E-GC-OP2	Email : Wutipong.H@pttgcgroup.com

Sample Description

Sample ID :	EG2-ENV-R-2206013432	Sampling Point :	TK 301
Sample Name/Type :	Storm Water Diversion box		
Sampling By :	GC Glycol, Watcharin	Sampling Date/Time :	June 08, 2022 / 09:00
Received Date :	June 08, 2022 / 11:26	Test Date :	June 08, 2022
Sample Condition :	Light Yellow Liquid / Amber Glass Bottle		

Test Item	Test Method	Unit	Specification	Result	Note
pH @ 25 °C	APHA 4500 -H+B (Edition 23nd, 2017)	pH unit	Report	7.8	
Biochemical Oxygen Demand	APHA 5210 B (Edition 23nd, 2017)	mg/L	750 max	136	01
Chemical Oxygen Demand	APHA 5220 D (Edition 23nd, 2017)	mg/L	1000 max	171	
Oil & Grease	Gravimetric Method	mg/L	10 max	1.4	
Total Suspended Solids	APHA 2540 D (Edition 23nd, 2017)	mg/L	200 max	43	01
Total Dissolve Solids	APHA 2540 C (Edition 23nd, 2017)	mg/L	3000 max	94	
Total Nitrogen (TKN) as N	APHA 4500 Norg B (Edition 23nd, 2017)	mg/L	Report	7.2	
Ammonia as Nitrogen	APHA 4500 NH3 C (Edition 23nd, 2017)	mg/L	Report	0.0	01
Formaldehyde	ASTM D6303-98	mg/L	Report	1.4	
Temperature	APHA 2550 A (Edition 23nd, 2017)	°C	40 max	25.0	

Notes :

01 รายการนี้อยู่นอกขอบข่ายการขอการรับรองจากกรมโรงงานอุตสาหกรรม

Reported By :

ว-226-จ-6625

(Miss Watcharin Srijula)
(Laboratory Analyst)

Issued Date :

June 20, 2022

Approved By :

ว-226-ค-5327

(Miss Panida Sivasen)
(Chemist)

Approved Date :

June 20, 2022

Remark :

- Reported results are as-received sample which is in good conditions, no contamination and shall be drawn using appropriate sampling procedure by non-laboratory staff except mentioned in the reference document.
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Page 1 of 1

LABORATORY ANALYSIS REPORT FOR		Report No. : LAR-ENV-2202-01382
EQUALIZATION SUMP GC GLYCOL		Job No. : -
		Replacement for Report No. : -
Customer / Requester : GC Glycol Company Limited For : -		
Address : 9/1 Soi G-12 Hemaraj Eastern Industrial Estate, Pakorn Songkhraorat Road, Tambon Map Ta Phut, Amphur Muang Rayong, Rayong 21150		
Telephone : 0-3897-7070		Fax : 038-977079
Contact Name : E-GC-OP2		Email : Wuttipong.H@pttggroup.com

Sample Description

Sample ID :	EG2-ENV-R-2201020118	Sampling Point :	TK 101
Sample Name/Type :	Equalization Sump		
Sampling By :	Watcharin, GC Glycol	Sampling Date/Time :	January 12, 2022 / 09:00
Received Date :	January 12, 2022 / 10:39	Test Date :	January 12, 2022
Sample Condition :	Clear Liquid / Amber Glass Bottle		

Test Item	Test Method	Unit	Specification	Result	Note
pH @ 25 °C	APHA 4500 -H+B (Edition 22nd, 2012)	pH unit	Report	10.5	
Biochemical Oxygen Demand	APHA 5210 B (Edition 22nd, 2012)	mg/L	Report	4.1	
Chemical Oxygen Demand	APHA 5220 D (Edition 22nd, 2012)	mg/L	Report	1400	
Oil & Grease	Gravimetric Method	mg/L	Report	1.2	
Total Suspended Solids	APHA 2540 D (Edition 22nd, 2012)	mg/L	Report	9.0	
Total Dissolve Solids	APHA 2540 C (Edition 22nd, 2012)	mg/L	Report	98	
Total Nitrogen (TKN) as N	APHA 4500 Norg B (Edition 22nd, 2012)	mg/L	Report	197.8	
Ammonia as Nitrogen	APHA 4500 NH3 C (Edition 22nd, 2012)	mg/L	Report	13.0	01
Formaldehyde	ASTM D6303-98	mg/L	Report	4.7	
Temperature	APHA 2550 A (Edition 22nd, 2012)	°C	Report	25.0	

Notes :

01 รายการนี้อยู่นอกขอบข่ายการขอการรับรองจากกรมโรงงานอุตสาหกรรม

Reported By :

จ-226-จ-6625

(Miss Watcharin Srijula)
(Laboratory Analyst)

Issued Date :

February 23, 2022

Approved By :

จ-226-ค-7912

(Mr. Nattakrit Sirikham)
(Senior Chemist)

Approved Date :

February 23, 2022

Remark :

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LABORATORY OPERATION SERVICES, Laboratory Operations I

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Page 1 of 1

LABORATORY ANALYSIS REPORT FOR		Report No. : LAR-ENV-2204-00672
EQUALIZATION SUMP GC GLYCOL		Job No. : -
Customer / Requester : GC Glycol Company Limited		For : -
Address :	9/1 Soi G-12 Hemaraj Eastern Industrial Estate, Pakorn Songkhraorat Road, Tambon Map Ta Phut, Amphur Muang Rayong, Rayong 21150	
Telephone :	0-3897-7070	Fax : 038-977079
Contact Name :	E-GC-OP2	Email : Wuttipong.H@pttgcgroup.com

Sample Description

Sample ID :	EG2-ENV-R-2203015111	Sampling Point :	TK 101
Sample Name/Type :	Equalization Sump		
Sampling By :	Watcharin, GC Glycol	Sampling Date/Time :	March 09, 2022 / 09:00
Received Date :	March 09, 2022 / 13:35	Test Date :	March 09, 2022
Sample Condition :	Clear Liquid / Amber Glass Bottle		

Test Item	Test Method	Unit	Specification	Result	Note
pH @ 25 °C	APHA 4500 -H+B (Edition 23nd, 2017)	pH unit	Report	10.6	
Chemical Oxygen Demand	APHA 5220 D (Edition 23nd, 2017)	mg/L	Report	483	
Biochemical Oxygen Demand	APHA 5210 B (Edition 23nd, 2017)	mg/L	Report	10	01
Oil & Grease	Gravimetric Method	mg/L	Report	0.5	
Total Suspended Solids	APHA 2540 D (Edition 23nd, 2017)	mg/L	Report	2.0	01
Total Dissolve Solids	APHA 2540 C (Edition 23nd, 2017)	mg/L	Report	66	
Total Nitrogen (TKN) as N	APHA 4500 Norg B (Edition 23nd, 2017)	mg/L	Report	15.5	
Ammonia as Nitrogen	APHA 4500 NH3 C (Edition 23nd, 2017)	mg/L	Report	4.0	01
Formaldehyde	ASTM D6303-98	mg/L	Report	0.3	
Temperature	APHA 2550 A (Edition 23nd, 2017)	°C	Report	25.0	

Notes :

01 รายการนี้อยู่นอกขอบข่ายการขึ้นทะเบียนของกรมโรงงานอุตสาหกรรม

Reported By :

ว-226-จ-6625

(Miss Watcharin Srijula)
(Laboratory Analyst)

Issued Date :

April 12, 2022

Approved By :

ว-226-ค-5327

(Miss Panida Sivasen)
(Chemist)

Approved Date :

April 12, 2022

Remark :

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Page 1 of 1

LABORATORY ANALYSIS REPORT FOR		Report No. : LAR-ENV-2205-00700
EQUALIZATION SUMP GC GLYCOL		Job No. : -
		Replacement for Report No. : -
Customer / Requester : GC Glycol Company Limited		For : -
Address : 9/1 Soi G-12 Hemaraj Eastern Industrial Estate, Pakorn Songkhraorat Road, Tambon Map Ta Phut, Amphur Muang Rayong, Rayong 21150		
Telephone : 0-3897-7070		Fax : 038-977079
Contact Name : E-GC-OP2		Email : Wuttipong.H@pttgcgroup.com

Sample Description

Sample ID :	EG2-ENV-R-2204022088	Sampling Point :	TK 101
Sample Name/Type :	Equalization Sump		
Sampling By :	Watcharin, GC Glycol	Sampling Date/Time :	April 13, 2022 / 09:00
Received Date :	April 13, 2022 / 10:10	Test Date :	April 13, 2022
Sample Condition :	Clear Liquid / Amber Glass Bottle		

Test Item	Test Method	Unit	Specification	Result	Note
pH @ 25 °C	APHA 4500 -H+B (Edition 23nd, 2017)	pH unit	Report	10.5	
Biochemical Oxygen Demand	APHA 5210 B (Edition 23nd, 2017)	mg/L	Report	<2.0	01
Chemical Oxygen Demand	APHA 5220 D (Edition 23nd, 2017)	mg/L	Report	2084	
Oil & Grease	Gravimetric Method	mg/L	Report	<0.5	
Total Suspended Solids	APHA 2540 D (Edition 23nd, 2017)	mg/L	Report	1.2	01
Total Dissolve Solids	APHA 2540 C (Edition 23nd, 2017)	mg/L	Report	156	
Total Nitrogen (TKN) as N	APHA 4500 Norg B (Edition 23nd, 2017)	mg/L	Report	72.7	
Ammonia as Nitrogen	APHA 4500 NH3 C (Edition 23nd, 2017)	mg/L	Report	3.0	01
Formaldehyde	ASTM D6303-98	mg/L	Report	4.8	
Temperature	APHA 2550 A (Edition 23nd, 2017)	°C	Report	25.0	

Notes :

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Reported By :

ว-226-จ-6625

(Miss Watcharin Srijula)
(Laboratory Analyst)

Issued Date :

May 12, 2022

Approved By :

ว-226-ค-7912

(Mr. Nattakrit Sirikham)
(Senior Chemist)

Approved Date :

May 12, 2022

Remark :

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Page 1 of 1

LABORATORY ANALYSIS REPORT FOR		Report No. : LAR-ENV-2205-01175
EQUALIZATION SUMP GC GLYCOL		Job No. : -
Customer / Requester : GC Glycol Company Limited		For : -
Address :	9/1 Soi G-12 Hemaraj Eastern Industrial Estate, Pakorn Songkhraorat Road, Tambon Map Ta Phut, Amphur Muang Rayong, Rayong 21150	
Telephone :	0-3897-7070	Fax : 038-977079
Contact Name :	E-GC-OP2	Email : Wuttipong.H@pttgcgroup.com

Sample Description

Sample ID :	EG2-ENV-R-2205019000	Sampling Point :	TK 101
Sample Name/Type :	Equalization Sump		
Sampling By :	GC Glycol, Watcharin	Sampling Date/Time :	May 11, 2022 / 09:00
Received Date :	May 11, 2022 / 10:47	Test Date :	May 11, 2022
Sample Condition :	Clear Liquid / Amber Glass Bottle		

Test Item	Test Method	Unit	Specification	Result	Note
pH @ 25 °C	APHA 4500 -H+B (Edition 23nd, 2017)	pH unit	Report	9.8	
Biochemical Oxygen Demand	APHA 5210 B (Edition 23nd, 2017)	mg/L	Report	71	01
Chemical Oxygen Demand	APHA 5220 D (Edition 23nd, 2017)	mg/L	Report	974	
Oil & Grease	Gravimetric Method	mg/L	Report	0.6	
Total Suspended Solids	APHA 2540 D (Edition 23nd, 2017)	mg/L	Report	11	01
Total Dissolve Solids	APHA 2540 C (Edition 23nd, 2017)	mg/L	Report	44	
Total Nitrogen (TKN) as N	APHA 4500 Norg B (Edition 23nd, 2017)	mg/L	Report	180.6	
Ammonia as Nitrogen	APHA 4500 NH3 C (Edition 23nd, 2017)	mg/L	Report	14.0	01
Formaldehyde	ASTM D6303-98	mg/L	Report	3.7	
Temperature	APHA 2550 A (Edition 23nd, 2017)	°C	Report	25.0	

Notes :

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Reported By :

ว-226-จ-6625

(Miss Watcharin Srijula)
(Laboratory Analyst)

Issued Date :

May 20, 2022

Approved By :

ว-226-ค-7912

(Mr. Nattakrit Sirikham)
(Senior Chemist)

Approved Date :

May 20, 2022

Remark :

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Page 1 of 1

LABORATORY ANALYSIS REPORT FOR		Report No. : LAR-ENV-2206-01041
EQUALIZATION SUMP GC GLYCOL		Job No. : -
		Replacement for Report No. : -
Customer / Requester : GC Glycol Company Limited		
For : -		
Address : 9/1 Soi G-12 Hemaraj Eastern Industrial Estate, Pakorn Songkhrarat Road, Tambon Map Ta Phut, Amphur Muang Rayong, Rayong 21150		
Telephone : 0-3897-7070		
Fax : 038-977079		
Contact Name : E-GC-OP2		
Email : Wuttipong.H@pttgcgroup.com		

Sample Description

Sample ID :	EG2-ENV-R-2206013430	Sampling Point :	TK 101
Sample Name/Type :	Equalization Sump		
Sampling By :	GC Glycol, Watcharin	Sampling Date/Time :	June 08, 2022 / 09:00
Received Date :	June 08, 2022 / 11:26	Test Date :	June 08, 2022
Sample Condition :	Light Yellow Liquid / Amber Glass Bottle		

Test Item	Test Method	Unit	Specification	Result	Note
pH @ 25 °C	APHA 4500 -H+B (Edition 23nd, 2017)	pH unit	Report	10.5	
Biochemical Oxygen Demand	APHA 5210 B (Edition 23nd, 2017)	mg/L	Report	5.4	01
Chemical Oxygen Demand	APHA 5220 D (Edition 23nd, 2017)	mg/L	Report	921	
Oil & Grease	Gravimetric Method	mg/L	Report	<0.5	
Total Suspended Solids	APHA 2540 D (Edition 23nd, 2017)	mg/L	Report	2.4	01
Total Dissolve Solids	APHA 2540 C (Edition 23nd, 2017)	mg/L	Report	28	
Total Nitrogen (TKN) as N	APHA 4500 Norg B (Edition 23nd, 2017)	mg/L	Report	23.6	
Ammonia as Nitrogen	APHA 4500 NH3 C (Edition 23nd, 2017)	mg/L	Report	1.0	01
Formaldehyde	ASTM D6303-98	mg/L	Report	4.2	
Temperature	APHA 2550 A (Edition 23nd, 2017)	°C	Report	25.0	

Notes :

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Reported By :

ว-226-จ-6625

(Miss Watcharin Srijula)
(Laboratory Analyst)

Issued Date :

June 20, 2022

Approved By :

ว-226-ค-5327

(Miss Panida Sivasen)
(Chemist)

Approved Date :

June 20, 2022

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Page 1 of 1

LABORATORY ANALYSIS REPORT FOR		Report No. : LAR-ENV-2202-01384
NEUTRALIZATION SUMP GC GLYCOL		Job No. : -
		Replacement for Report No. : -
Customer / Requester : GC Glycol Company Limited For : -		
Address : 9/1 Soi G-12 Hemaraj Eastern Industrial Estate, Pakorn Songkhraorat Road, Tambon Map Ta Phut, Amphur Muang Rayong, Rayong 21150		
Telephone : 0-3897-7070 Fax : 038-977079		
Contact Name : E-GC-OP2 Email : Wutipong.H@pttgcgroup.com		

Sample Description

Sample ID : EG2-ENV-R-2201020119 **Sampling Point :** TK 201
Sample Name/Type : Neutralization Sump
Sampling By : Watcharin, GC Glycol **Sampling Date/Time :** January 12, 2022 / 09:00
Received Date : January 12, 2022 / 10:39 **Test Date :** January 12, 2022
Sample Condition : Light Yellow Liquid / Amber Glass Bottle

Test Item	Test Method	Unit	Specification	Result	Note
pH @ 25 °C	APHA 4500 -H+B (Edition 22nd, 2012)	pH unit	Report	9.6	
Biochemical Oxygen Demand	APHA 5210 B (Edition 22nd, 2012)	mg/L	Report	7.8	
Chemical Oxygen Demand	APHA 5220 D (Edition 22nd, 2012)	mg/L	Report	710	
Oil & Grease	Gravimetric Method	mg/L	Report	1.5	
Total Suspended Solids	APHA 2540 D (Edition 22nd, 2012)	mg/L	Report	<1.0	
Total Dissolve Solids	APHA 2540 C (Edition 22nd, 2012)	mg/L	Report	304	
Total Nitrogen (TKN) as N	APHA 4500 Norg B (Edition 22nd, 2012)	mg/L	Report	14.6	
Ammonia as Nitrogen	APHA 4500 NH3 C (Edition 22nd, 2012)	mg/L	Report	2.0	01
Formaldehyde	ASTM D6303-98	mg/L	Report	1.8	
Temperature	APHA 2550 A (Edition 22nd, 2012)	°C	Report	25.0	

Notes :

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Reported By :

๖-226-๖-6625

(Miss Watcharin Srijula)
(Laboratory Analyst)

Issued Date :

February 23, 2022

Approved By :

๖-226-๙-7912

(Mr. Nattakrit Sirikham)
(Senior Chemist)

Approved Date :

February 23, 2022

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Page 1 of 1

LABORATORY ANALYSIS REPORT FOR		Report No. : LAR-ENV-2204-00674
NEUTRALIZATION SUMP GC GLYCOL		Job No. : -
		Replacement for Report No. : -
Customer / Requester : GC Glycol Company Limited		For : -
Address :	9/1 Soi G-12 Hemaraj Eastern Industrial Estate, Pakorn Songkhrorot Road, Tambon Map Ta Phut, Amphur Muang Rayong, Rayong 21150	
Telephone :	0-3897-7070	Fax : 038-977079
Contact Name :	E-GC-OP2	Email : Wuttipong.H@pttgcgroup.com

Sample Description

Sample ID : EG2-ENV-R-2203015112 **Sampling Point :** TK 201

Sample Name/Type : Neutralization Sump

Sampling By : O/Watcharin,GC P EG1 **Sampling Date/Time :** March 09, 2022 / 09:00

Received Date : March 09, 2022 / 13:35 **Test Date :** March 09, 2022

Sample Condition : Clear Liquid / Amber Glass Bottle

Test Item	Test Method	Unit	Specification	Result	Note
pH @ 25 °C	APHA 4500 -H+B (Edition 23nd, 2017)	pH unit	Report	8.2	
Biochemical Oxygen Demand	APHA 5210 B (Edition 23nd, 2017)	mg/L	Report	25	01
Chemical Oxygen Demand	APHA 5220 D (Edition 23nd, 2017)	mg/L	Report	548	
Oil & Grease	Gravimetric Method	mg/L	Report	0.6	
Total Suspended Solids	APHA 2540 D (Edition 23nd, 2017)	mg/L	Report	11	01
Total Dissolve Solids	APHA 2540 C (Edition 23nd, 2017)	mg/L	Report	2310	
Total Nitrogen (TKN) as N	APHA 4500 Norg B (Edition 23nd, 2017)	mg/L	Report	23.3	
Ammonia as Nitrogen	APHA 4500 NH3 C (Edition 23nd, 2017)	mg/L	Report	4.0	01
Formaldehyde	ASTM D6303-98	mg/L	Report	0.3	
Temperature	APHA 2550 A (Edition 23nd, 2017)	°C	Report	25.0	

Notes :

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Reported By :

ว-226-จ-6625

(Miss Watcharin Srijula)
(Laboratory Analyst)

Issued Date :

April 12, 2022

Approved By :

ว-226-ค-5327

(Miss Panida Sivasen)
(Chemist)

Approved Date :

April 12, 2022

Remark :

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Page 1 of 1

LABORATORY ANALYSIS REPORT FOR		Report No. : LAR-ENV-2205-00704
NEUTRALIZATION SUMP GC GLYCOL		Job No. : -
		Replacement for Report No. : -
Customer / Requester : GC Glycol Company Limited For : -		
Address : 9/1 Soi G-12 Hemaraj Eastern Industrial Estate, Pakorn Songkhraorat Road, Tambon Map Ta Phut, Amphur Muang Rayong, Rayong 21150		
Telephone : 0-3897-7070 Fax : 038-977079		
Contact Name : E-GC-OP2 Email : Wuttipong.H@pttgcgroup.com		

Sample Description

Sample ID :	EG2-ENV-R-2204022089	Sampling Point :	TK 201
Sample Name/Type :	Neutralization Sump		
Sampling By :	Watcharin, GC Glycol	Sampling Date/Time :	April 13, 2022 / 09:00
Received Date :	April 13, 2022 / 10:10	Test Date :	April 13, 2022
Sample Condition :	Clear Liquid / Amber Glass Bottle		

Test Item	Test Method	Unit	Specification	Result	Note
pH @ 25 °C	APHA 4500 -H+B (Edition 23nd, 2017)	pH unit	Report	8.5	
Biochemical Oxygen Demand	APHA 5210 B (Edition 23nd, 2017)	mg/L	Report	7.8	01
Chemical Oxygen Demand	APHA 5220 D (Edition 23nd, 2017)	mg/L	Report	1980	
Oil & Grease	Gravimetric Method	mg/L	Report	<0.5	
Total Suspended Solids	APHA 2540 D (Edition 23nd, 2017)	mg/L	Report	<1.0	01
Total Dissolve Solids	APHA 2540 C (Edition 23nd, 2017)	mg/L	Report	1466	
Total Nitrogen (TKN) as N	APHA 4500 Norg B (Edition 23nd, 2017)	mg/L	Report	75.7	
Ammonia as Nitrogen	APHA 4500 NH3 C (Edition 23nd, 2017)	mg/L	Report	3.0	01
Formaldehyde	ASTM D6303-98	mg/L	Report	4.7	
Temperature	APHA 2550 A (Edition 23nd, 2017)	°C	Report	25.0	

Notes :

01 รายการนี้อยู่นอกขอบข่ายการขอการรับรองจากกรมโรงงานอุตสาหกรรม

Reported By :

ว-226-จ-6625

(Miss Watcharin Srijula)
(Laboratory Analyst)

Issued Date :

May 12, 2022

Approved By :

ว-226-ค-7912

(Mr. Nattakrit Sirikham)
(Senior Chemist)

Approved Date :

May 12, 2022

Remark :

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LABORATORY ANALYSIS REPORT FOR		Report No. : LAR-ENV-2205-01177
NEUTRALIZATION SUMP GC GLYCOL		Job No. : -
		Replacement for Report No. : -
Customer / Requester : GC Glycol Company Limited		For : -
Address : 9/1 Soi G-12 Hemaraj Eastern Industrial Estate, Pakorn Songkhraorat Road, Tambon Map Ta Phut, Amphur Muang Rayong, Rayong 21150		
Telephone : 0-3897-7070		Fax : 038-977079
Contact Name : E-GC-OP2		Email : Wuttipong.H@pttgcgroup.com

Sample Description

Sample ID :	EG2-ENV-R-2205019001	Sampling Point :	TK 201
Sample Name/Type :	Neutralization Sump		
Sampling By :	GC Glycol, Watcharin	Sampling Date/Time :	May 11, 2022 / 09:00
Received Date :	May 11, 2022 / 10:47	Test Date :	May 11, 2022
Sample Condition :	Clear Liquid / Amber Glass Bottle		

Test Item	Test Method	Unit	Specification	Result	Note
pH @ 25 °C	APHA 4500 -H+B (Edition 23nd, 2017)	pH unit	Report	8.3	
Biochemical Oxygen Demand	APHA 5210 B (Edition 23nd, 2017)	mg/L	Report	53	01
Chemical Oxygen Demand	APHA 5220 D (Edition 23nd, 2017)	mg/L	Report	758	
Oil & Grease	Gravimetric Method	mg/L	Report	0.8	
Total Suspended Solids	APHA 2540 D (Edition 23nd, 2017)	mg/L	Report	23	01
Total Dissolve Solids	APHA 2540 C (Edition 23nd, 2017)	mg/L	Report	506	
Total Nitrogen (TKN) as N	APHA 4500 Norg B (Edition 23nd, 2017)	mg/L	Report	128.6	
Ammonia as Nitrogen	APHA 4500 NH3 C (Edition 23nd, 2017)	mg/L	Report	29.0	01
Formaldehyde	ASTM D6303-98	mg/L	Report	1.8	
Temperature	APHA 2550 A (Edition 23nd, 2017)	°C	Report	25.0	

Notes :

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Reported By :

จ-226-จ-6625

(Miss Watcharin Srijula)
(Laboratory Analyst)

Issued Date :

May 20, 2022

Approved By :

จ-226-ค-7912

(Mr. Nattakrit Sirikham)
(Senior Chemist)

Approved Date :

May 20, 2022

Remark :

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PTT GLOBAL CHEMICAL PUBLIC COMPANY LIMITED

LABORATORY OPERATION SERVICES, Laboratory Operations I

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Tel : +66 (0) 3897-7531-3 Fax: +66 (0) 3897-7509

Page 1 of 1

LABORATORY ANALYSIS REPORT FOR		Report No. : LAR-ENV-2206-01042
NEUTRALIZATION SUMP GC GLYCOL		Job No. : -
Customer / Requester : GC Glycol Company Limited		Replacement for Report No. : -
Address : 9/1 Soi G-12 Hemaraj Eastern Industrial Estate, Pakorn Songkhraorat Road, Tambon Map Ta Phut, Amphur Muang Rayong, Rayong 21150		
Telephone : 0-3897-7070	Fax : 038-977079	
Contact Name : E-GC-OP2	Email : Wutipong.H@pttgcgroup.com	

Sample Description

Sample ID :	EG2-ENV-R-2206013431	Sampling Point :	TK 201
Sample Name/Type :	Neutralization Sump		
Sampling By :	GC Glycol, Watcharin	Sampling Date/Time :	June 08, 2022 / 09:00
Received Date :	June 08, 2022 / 11:26	Test Date :	June 08, 2022
Sample Condition :	Light Yellow Liquid / Glass Bottle		

Test Item	Test Method	Unit	Specification	Result	Note
pH @ 25 °C	APHA 4500 -H+B (Edition 23nd, 2017)	pH unit	Report	7.2	
Biochemical Oxygen Demand	APHA 5210 B (Edition 23nd, 2017)	mg/L	Report	7.6	01
Chemical Oxygen Demand	APHA 5220 D (Edition 23nd, 2017)	mg/L	Report	843	
Oil & Grease	Gravimetric Method	mg/L	Report	<0.5	
Total Suspended Solids	APHA 2540 D (Edition 23nd, 2017)	mg/L	Report	5.6	01
Total Dissolve Solids	APHA 2540 C (Edition 23nd, 2017)	mg/L	Report	786	
Total Nitrogen (TKN) as N	APHA 4500 Norg B (Edition 23nd, 2017)	mg/L	Report	26.7	
Ammonia as Nitrogen	APHA 4500 NH3 C (Edition 23nd, 2017)	mg/L	Report	1.0	01
Formaldehyde	ASTM D6303-98	mg/L	Report	2.9	
Temperature	APHA 2550 A (Edition 23nd, 2017)	°C	Report	25.0	

Notes :

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Reported By :

ว-226-จ-6625

(Miss Watcharin Srijula)
(Laboratory Analyst)

Issued Date :

June 20, 2022

Approved By :

ว-226-ค-5327

(Miss Panida Sivasen)
(Chemist)

Approved Date :

June 20, 2022

Remark :

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Page 1 of 1

LABORATORY ANALYSIS REPORT FOR		Report No. : LAR-ENV-2202-01386
FINAL CHECK BASIN GC GLYCOL		Job No. : -
		Replacement for Report No. : -
Customer / Requester : GC Glycol Company Limited		For : -
Address :	9/1 Soi G-12 Hemaraj Eastern Industrial Estate, Pakorn Songkhraorat Road, Tambon Map Ta Phut, Amphur Muang Rayong, Rayong 21150	
Telephone :	0-3897-7070	Fax : 038-977079
Contact Name :	E-GC-OP2	Email : Wuttipong.H@pttgcgroup.com

Sample Description

Sample ID : EG2-ENV-R-2201020121 **Sampling Point :** TK 601
Sample Name/Type : Final Check Basin
Sampling By : Watcharin, GC Glycol **Sampling Date/Time :** January 12, 2022 / 09:00
Received Date : January 12, 2022 / 10:39 **Test Date :** January 12, 2022
Sample Condition : Light Yellow Liquid / Amber Glass Bottle

Test Item	Test Method	Unit	Specification	Result	Note
pH @ 25 °C	APHA 4500 -H+B (Edition 22nd, 2012)	pH unit	5.5-9.0	7.8	
Chemical Oxygen Demand	APHA 5220 D (Edition 22nd, 2012)	mg/L	750 max	76	
Biochemical Oxygen Demand	APHA 5210 B (Edition 22nd, 2012)	mg/L	500 max	36	
Oil & Grease	Gravimetric Method	mg/L	10 max	<0.5	
Total Suspended Solids	APHA 2540 D (Edition 22nd, 2012)	mg/L	200 max	15	
Total Dissolve Solids	APHA 2540 C (Edition 22nd, 2012)	mg/L	3000 max	244	
Total Nitrogen (TKN) as N	APHA 4500 Norg B (Edition 22nd, 2012)	mg/L	100 max	42.1	
Ammonia as Nitrogen	APHA 4500 NH3 C (Edition 22nd, 2012)	mg/L	Report	20.0	01
Formaldehyde	ASTM D6303-98	mg/L	1 max	0.2	
Color(at pH 7.0)	APHA 2120 F (Edition 22nd, 2012)	ADMI	600 max	<10	
Color(at original pH)	APHA 2120 F (Edition 22nd, 2012)	ADMI	600 max	<10	
Temperature	APHA 2550 A (Edition 22nd, 2012)	°C	45 max	25.0	

Notes :

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Reported By :

ว-226-จ-6625

(Miss Watcharin Srijula)
(Laboratory Analyst)

Issued Date :

February 23, 2022

Approved By :

ว-226-ค-7912

(Mr. Nattakrit Sirikham)
(Senior Chemist)

Approved Date :

February 23, 2022

Remark :

1. Reported results are as-received sample which is in good conditions, no contamination and shall be drawn using appropriate sampling procedure by non-laboratory staff except mentioned in the reference document.
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Page 1 of 1

LABORATORY ANALYSIS REPORT FOR		Report No. : LAR-ENV-2204-00675
FINAL CHECK BASIN GC GLYCOL		Job No. : -
		Replacement for Report No. : -
Customer / Requester : GC Glycol Company Limited For : -		
Address : 9/1 Soi G-12 Hemaraj Eastern Industrial Estate, Pakorn Songkhraorat Road, Tambon Map Ta Phut, Amphur Muang Rayong, Rayong 21150		
Telephone : 0-3897-7070 Fax : 038-977079		
Contact Name : E-GC-OP2 Email : Wuttipong.H@pttgcgroup.com		

Sample Description

Sample ID :	EG2-ENV-R-2203015114	Sampling Point :	TK 601
Sample Name/Type :	Final Check Basin		
Sampling By :	Watcharin, GC Glycol	Sampling Date/Time :	March 09, 2022 / 09:00
Received Date :	March 09, 2022 / 13:35	Test Date :	March 09, 2022
Sample Condition :	Light Yellow Liquid / Amber Glass Bottle		

Test Item	Test Method	Unit	Specification	Result	Note
pH @ 25 °C	APHA 4500 -H+B (Edition 23nd, 2017)	pH unit	5.5-9.0	8.2	
Biochemical Oxygen Demand	APHA 5210 B (Edition 23nd, 2017)	mg/L	500 max	44	01
Chemical Oxygen Demand	APHA 5220 D (Edition 23nd, 2017)	mg/L	750 max	219	
Oil & Grease	Gravimetric Method	mg/L	10 max	<0.5	
Total Suspended Solids	APHA 2540 D (Edition 23nd, 2017)	mg/L	200 max	21	01
Total Dissolve Solids	APHA 2540 C (Edition 23nd, 2017)	mg/L	3000 max	264	
Total Nitrogen (TKN) as N	APHA 4500 Norg B (Edition 23nd, 2017)	mg/L	100 max	5.4	
Ammonia as Nitrogen	APHA 4500 NH3 C (Edition 23nd, 2017)	mg/L	Report	0.0	01
Formaldehyde	ASTM D6303-98	mg/L	1 max	0.3	
Color(at pH 7.0)	APHA 2120 F (Edition 23nd, 2017)	ADMI	600 max	20	
Color(at original pH)	APHA 2120 F (Edition 23nd, 2017)	ADMI	600 max	22	
Temperature	APHA 2550 A (Edition 23nd, 2017)	°C	45 max	25.0	

Notes :

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Reported By :

ว-226-จ-6625

(Miss Watcharin Srijula)
(Laboratory Analyst)

Issued Date :

April 12, 2022

Approved By :

ว-226-ค-5327

(Miss Panida Sivasen)
(Chemist)

Approved Date :

April 12, 2022

Remark :

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Page 1 of 1

LABORATORY ANALYSIS REPORT FOR		Report No. : LAR-ENV-2205-00706
FINAL CHECK BASIN GC GLYCOL		Job No. : -
		Replacement for Report No. : -
Customer / Requester : GC Glycol Company Limited For : -		
Address : 9/1 Soi G-12 Hemaraj Eastern Industrial Estate, Pakorn Songkhraorat Road, Tambon Map Ta Phut, Amphur Muang Rayong, Rayong 21150		
Telephone : 0-3897-7070 Fax : 038-977079		
Contact Name : E-GC-OP2 Email : Wuttipong.H@pttgcgroup.com		

Sample Description

Sample ID :	EG2-ENV-R-2204022091	Sampling Point :	TK 601
Sample Name/Type :	Final Check Basin		
Sampling By :	Watcharin, GC Glycol	Sampling Date/Time :	April 13, 2022 / 09:00
Received Date :	April 13, 2022 / 10:10	Test Date :	April 13, 2022
Sample Condition :	Clear Liquid / Amber Glass Bottle		

Test Item	Test Method	Unit	Specification	Result	Note
pH @ 25 °C	APHA 4500 -H+B (Edition 23nd, 2017)	pH unit	5.5-9.0	7.4	
Biochemical Oxygen Demand	APHA 5210 B (Edition 23nd, 2017)	mg/L	500 max	134	01
Chemical Oxygen Demand	APHA 5220 D (Edition 23nd, 2017)	mg/L	750 max	179	
Oil & Grease	Gravimetric Method	mg/L	10 max	0.8	
Total Suspended Solids	APHA 2540 D (Edition 23nd, 2017)	mg/L	200 max	42	01
Total Dissolve Solids	APHA 2540 C (Edition 23nd, 2017)	mg/L	3000 max	382	
Total Nitrogen (TKN) as N	APHA 4500 Norg B (Edition 23nd, 2017)	mg/L	100 max	9.7	
Ammonia as Nitrogen	APHA 4500 NH3 C (Edition 23nd, 2017)	mg/L	Report	0.0	01
Formaldehyde	ASTM D6303-98	mg/L	1 max	0.5	
Color(at pH 7.0)	APHA 2120 F (Edition 23nd, 2017)	ADMI	600 max	30	
Color(at original pH)	APHA 2120 F (Edition 23nd, 2017)	ADMI	600 max	31	
Temperature	APHA 2550 A (Edition 23nd, 2017)	°C	45 max	25.0	

Notes :

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Reported By :

ว-226-จ-6625

(Miss Watcharin Srijula)
(Laboratory Analyst)

Issued Date :

May 12, 2022

Approved By :

ว-226-ค-7912

(Mr. Nattakrit Sirikham)
(Senior Chemist)

Approved Date :

May 12, 2022

Remark :

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LABORATORY ANALYSIS REPORT FOR		Report No. : LAR-ENV-2205-01179
FINAL CHECK BASIN GC GLYCOL		Job No. : -
		Replacement for Report No. : -
Customer / Requester : GC Glycol Company Limited For : -		
Address : 9/1 Soi G-12 Hemaraj Eastern Industrial Estate, Pakorn Songkhraorat Road, Tambon Map Ta Phut, Amphur Muang Rayong, Rayong 21150		
Telephone : 0-3897-7070 Fax : 038-977079		
Contact Name : K.Wiroj Eursirikornkun Email : wiroj.e@pttgcgroup.com		

Sample Description

Sample ID :	EG2-ENV-R-2205019003	Sampling Point :	TK 601
Sample Name/Type :	Final Check Basin		
Sampling By :	GC Glycol, Watcharin	Sampling Date/Time :	May 11, 2022 / 09:00
Received Date :	May 11, 2022 / 10:47	Test Date :	May 11, 2022
Sample Condition :	Clear Liquid / Amber Glass Bottle		

Test Item	Test Method	Unit	Specification	Result	Note
pH @ 25 °C	APHA 4500 -H+B (Edition 23nd, 2017)	pH unit	5.5-9.0	7.5	
Biochemical Oxygen Demand	APHA 5210 B (Edition 23nd, 2017)	mg/L	500 max	101	01
Chemical Oxygen Demand	APHA 5220 D (Edition 23nd, 2017)	mg/L	750 max	159	
Oil & Grease	Gravimetric Method	mg/L	10 max	0.8	
Total Suspended Solids	APHA 2540 D (Edition 23nd, 2017)	mg/L	200 max	26	01
Total Dissolve Solids	APHA 2540 C (Edition 23nd, 2017)	mg/L	3000 max	276	
Total Nitrogen (TKN) as N	APHA 4500 Norg B (Edition 23nd, 2017)	mg/L	100 max	31.7	
Ammonia as Nitrogen	APHA 4500 NH3 C (Edition 23nd, 2017)	mg/L	Report	23.0	01
Formaldehyde	ASTM D6303-98	mg/L	1 max	0.3	
Color(at pH 7.0)	APHA 2120 F (Edition 23nd, 2017)	ADMI	600 max	19	
Color(at original pH)	APHA 2120 F (Edition 23nd, 2017)	ADMI	600 max	41	
Temperature	APHA 2550 A (Edition 23nd, 2017)	°C	45 max	25.0	

Notes :

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Reported By :

(Miss Watcharin Srijula)
(Laboratory Analyst)

Approved By :

(Mr. Nattakrit Sirikham)
(Senior Chemist)

Issued Date :

May 20, 2022

Approved Date :

May 20, 2022

Remark :

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Page 1 of 1

LABORATORY ANALYSIS REPORT FOR		Report No. : LAR-ENV-2206-01044
FINAL CHECK BASIN GC GLYCOL		Job No. : -
		Replacement for Report No. : -
Customer / Requester : GC Glycol Company Limited		For : -
Address :	9/1 Soi G-12 Hemaraj Eastern Industrial Estate, Pakorn Songkhraorat Road, Tambon Map Ta Phut, Amphur Muang Rayong, Rayong 21150	
Telephone :	0-3897-7070	Fax : 038-977079
Contact Name :	E-GC-OP2	Email : Wuttipong.H@pttgcgroup.com

Sample Description

Sample ID : EG2-ENV-R-2206013433 **Sampling Point :** TK 601

Sample Name/Type : Final Check Basin

Sampling By : GC Glycol, Watcharin **Sampling Date/Time :** June 08, 2022 / 09:00

Received Date : June 08, 2022 / 11:26 **Test Date :** June 08, 2022

Sample Condition : Light Yellow Liquid / Amber Glass Bottle

Test Item	Test Method	Unit	Specification	Result	Note
pH @ 25 °C	APHA 4500 -H+B (Edition 23nd, 2017)	pH unit	5.5-9.0	7.1	
Biochemical Oxygen Demand	APHA 5210 B (Edition 23nd, 2017)	mg/L	500 max	151	01
Chemical Oxygen Demand	APHA 5220 D (Edition 23nd, 2017)	mg/L	750 max	220	
Oil & Grease	Gravimetric Method	mg/L	10 max	0.5	
Total Suspended Solids	APHA 2540 D (Edition 23nd, 2017)	mg/L	200 max	27	01
Total Dissolve Solids	APHA 2540 C (Edition 23nd, 2017)	mg/L	3000 max	384	
Total Nitrogen (TKN) as N	APHA 4500 Norg B (Edition 23nd, 2017)	mg/L	100 max	6.9	
Ammonia as Nitrogen	APHA 4500 NH3 C (Edition 23nd, 2017)	mg/L	Report	0.0	01
Formaldehyde	ASTM D6303-98	mg/L	1 max	0.6	
Color(at pH 7.0)	APHA 2120 F (Edition 23nd, 2017)	ADMI	600 max	63	
Color(at original pH)	APHA 2120 F (Edition 23nd, 2017)	ADMI	600 max	64	
Temperature	APHA 2550 A (Edition 23nd, 2017)	°C	45 max	25.0	

Notes :

01 รายการนี้อยู่นอกขอบข่ายการขอการรับรองจากกรมโรงงานอุตสาหกรรม

Reported By :

ว-226-จ-6625

(Miss Watcharin Srijula)
(Laboratory Analyst)

Issued Date :

June 20, 2022

Approved By :

ว-226-ค-5327

(Miss Panida Sivasen)
(Chemist)

Approved Date :

June 20, 2022

Remark :

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Request No. ATR6503062

Report No. 6503-1066

TEST REPORT

CUSTOMER : GC Glycol Co.,Ltd.
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 : 25/03/2022 SAMPLE NO. : A65031066
RECEIVED DATE : 29/03/2022 SAMPLING TIME : 08:10-20:10
SAMPLING INSTRUMENT : Personal Pump Flow rate 0.10 L/min TESTED DATE : 29/03/2022-01/04/2022
Serial No. 218444 REPORTED DATE : 18/04/2022

PARAMETER*	TEST METHOD	RESULT	STD ^{/1}	UNIT
Ammonia	Ion Chromatrography 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 731262E 1404912N

Examined By

(Miss Thanatporn Klinsopon)

18/04/2022



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By

(Mr. Kawee Suthasub)

18/04/2022

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

Request No. ATR6505051

Report No. 6505-0783

TEST REPORT

CUSTOMER : GC Glycol Co.,Ltd.

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 : 13/05/2022 SAMPLE NO. : A65050783

RECEIVED DATE : 18/05/2022 SAMPLING TIME : 07:00-19:00

SAMPLING INSTRUMENT : Personal Pump Flow rate 0.10 L/min TESTED DATE : 18/05/2022-25/05/2022

Serial No. 218432 REPORTED DATE : 02/06/2022

PARAMETER*	TEST METHOD	RESULT	STD ^{/1}	UNIT
Ammonia	Ion Chromatrography 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.

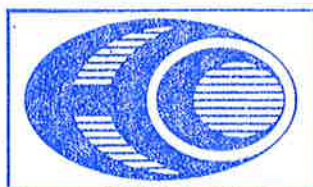
(Sampling By Mr. Aocha Khwansirimongkon)

GPS = Sampling at UTM 47 P 731262E 1404912N

Examined By

(Miss Thanaporn Klinsopon)

02/06/2022



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By

(Mr. Kawee Suthasub)

02/06/2022

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

Request No. ATR6503062

Report No. 6503-1068

TEST REPORT

CUSTOMER : GC Glycol Company Limited

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 : EO Pump (P2054 A/B) SAMPLE NO : A65031068

SAMPLING DATE : 25/03/2022 SAMPLING TIME : 08:00-20:00

RECEIVED DATE : 29/03/2022 TESTED DATE : 29/03/2022 – 12/04/2022

SAMPLING INSTRUMENT : Passive Sampling REPORTED DATE : 18/04/2022

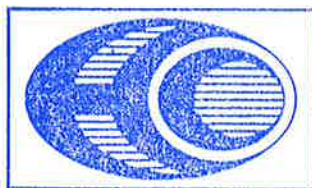
PARAMETER**	TEST METHOD	RESULT ²	STD ¹	UNIT
Ethylene Oxide	OSHA 1010	ND	1.8	mg/m ³
		ND	1.0	ppm

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. Sutha Songthaninai)
Analysed By SECOT Co.,Ltd. / GPS = Sampling at UTM 47 P 731246E 1404930N



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Examined By



(Miss Thanatporn Klinsopon)

18/04/2022

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY
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Request No. ATR6505050

Report No. 6505-0774

TEST REPORT

CUSTOMER : GC Glycol Company Limited

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 : EO Pump P2054 A/B SAMPLE NO : A65050774

SAMPLING DATE : 13/05/2022 SAMPLING TIME : 07:00-19:00

RECEIVED DATE : 18/05/2022 TESTED DATE : 18/05/2022-01/06/2022

SAMPLING INSTRUMENT : Passive Sampling REPORTED DATE : 02/06/2022

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. Aocha Khwansirimongkhon)
Analysed By SECOT Co.,Ltd. / GPS = Sampling at UTM 47P 731246E 1404930N



Examined By

(Miss Thanatporn Klinsoon)

02/06/2022

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TEST REPORT

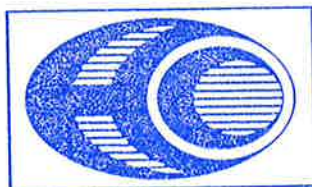
CUSTOMER : GC Glycol Co., Ltd
ADDRESS : 9 Soi G-12, WHA Eastern Industrial Estate (Map Ta Phut), Pakorn Songkhraorat Road,
Tambon Map Ta Phut, Amphur Muang Rayong, Rayong 21150
SAMPLE SOURCE : EA Plant
SAMPLE POINT : กระบวนการผลิต (P2051A)
PARAMETER* : L_{eq} 1 hr., L_{eq} 8 hr. & L_{max} , SAMPLE NO. : 10044
DETERMINATION METHOD : ISO 11202:2010 MEASURING DATE : 26/05/2022
INSTRUMENT : Integrated Sound Level Meter RECEIVED DATE : 26/05/2022
S/N 01209912 : Type 2 REPORTED DATE : 31/05/2022

MEASURING TIME	RESULT		UNIT
	L _{eq} 1 hr.	L _{max}	
09:00-10:00	83.4	84.8	dB(A)
10:00-11:00	83.6	84.6	dB(A)
11:00-12:00	83.6	84.9	dB(A)
12:00-13:00	83.7	84.3	dB(A)
13:00-14:00	83.9	84.4	dB(A)
14:00-15:00	83.9	84.8	dB(A)
15:00-16:00	83.9	84.6	dB(A)
16:00-17:00	83.6	84.4	dB(A)
L _{eq} 8 hr.	83.7	—	dB(A)
Standard	90 ^{/1}	140 ^{/1} , 115 ^{/2}	dB(A)

REMARK : ^{/1} Notification of The Ministry of Industry B.E. 2546 (2003)

^{/2} Regulation of The Ministry of Labour B.E. 2559 (2016)

* Ms. Thanatporn Klinsopon is Section Head / Mrs. Wanpen Lhaochindawat is Technical Management
(Measurement By Mr. Wattana Khotla)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By

(MRS. WANPEN LHAOCHINDAWAT)

31/05/2022

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY

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Request No. LA65-R0673

Report No. R6506-3051

TEST REPORT

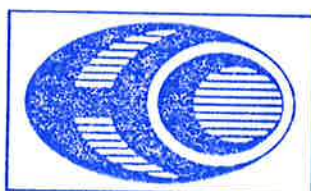
CUSTOMER : GC Glycol Co., Ltd
ADDRESS : 9 Soi G-12, WHA Eastern Industrial Estate (Map Ta Phut), Pakorn Songkhraorat Road,
Tambon Map Ta Phut, Amphur Muang Rayong, Rayong 21150
SAMPLE SOURCE : EA Plant
SAMPLE POINT : กระบวนการผลิต (P2051A)
PARAMETER* : L_{eq} 1 hr., L_{eq} 8 hr. & L_{max} SAMPLE NO. : 13335
DETERMINATION METHOD : ISO 11202:2010 MEASURING DATE : 17/06/2022
INSTRUMENT : Integrated Sound Level Meter RECEIVED DATE : 17/06/2022
S/N 01147299 : Type 2 REPORTED DATE : 21/06/2022

MEASURING TIME	RESULT		UNIT
	L_{eq} 1 hr.	L_{max}	
08:30-09:30	83.0	92.1	dB(A)
09:30-10:30	81.7	86.4	dB(A)
10:30-11:30	81.9	89.3	dB(A)
11:30-12:30	81.8	82.5	dB(A)
12:30-13:30	81.7	82.4	dB(A)
13:30-14:30	81.7	82.2	dB(A)
14:30-15:30	81.7	83.6	dB(A)
15:30-16:30	81.6	82.0	dB(A)
L_{eq} 8 hr.	81.9	—	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)

* Ms. Thanatporn Klinsoon is Section Head / Mrs. Wanpen Lhaochindawat is Technical Management
(Measurement By Mr. Wattana Khotla)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By

(MRS. WANPEN LHAOCHINDAWAT)

21/06/2022

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY
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WITHOUT THE WRITTEN APPROVAL LABORATORY