

ภาคผนวก ค

รายงานผลการตรวจวัดคุณภาพสิ่งแวดล้อม

Request No. LA67-R0848

Report No. R6708-4477 - R6708-4483

TEST REPORT

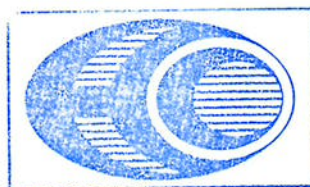
CUSTOMER : GC Polyols Company Limited
ADDRESS : Noen Phra Sub-district, Mueang Rayong District, Rayong 21150
SAMPLE SOURCE : GCP Plant
SAMPLE POINT : วัดมาบขลุ่ย
PARAMETER* : Nitrogen Dioxide
DETERMINATION METHOD : Chemiluminescence
INSTRUMENT : API Model T200 S/N 7874

SAMPLE NO. : 29868-29874
SAMPLING DATE : 02-09/08/2024
RECEIVED DATE : 09/08/2024
REPORTED DATE : 24/08/2024

TIME / DATE	02-03/08/2024	03-04/08/2024	04-05/08/2024	05-06/08/2024	06-07/08/2024	07-08/08/2024	08-09/08/2024	UNIT
10:00 - 11:00 ²	0.002	0.003	0.006	0.006	0.003	0.003	0.003	ppm
11:00 - 12:00	0.002	0.005	0.011	0.007	0.002	0.003	0.003	ppm
12:00 - 13:00	0.002	0.003	0.012	0.005	0.002	0.005	0.003	ppm
13:00 - 14:00	0.003	0.002	0.003	0.005	0.002	0.003	0.002	ppm
14:00 - 15:00	0.003	0.002	0.002	0.005	0.003	0.003	0.002	ppm
15:00 - 16:00	0.002	0.003	0.004	0.004	0.003	0.003	0.004	ppm
16:00 - 17:00	0.002	0.002	0.003	0.003	0.005	0.003	0.004	ppm
17:00 - 18:00	0.002	0.003	0.004	0.003	0.006	0.005	0.005	ppm
18:00 - 19:00	0.002	0.005	0.004	0.004	0.007	0.004	0.007	ppm
19:00 - 20:00	0.002	0.007	0.003	0.005	0.004	0.004	0.006	ppm
20:00 - 21:00	0.002	0.006	0.002	0.005	0.004	0.004	0.004	ppm
21:00 - 22:00	0.001	0.005	0.002	0.004	0.003	0.005	0.004	ppm
22:00 - 23:00	0.002	0.003	0.002	0.004	0.003	0.003	0.003	ppm
23:00 - 00:00	0.002	0.002	0.003	0.003	0.003	0.003	0.004	ppm
00:00 - 01:00	0.001	0.001	0.003	0.003	0.002	0.002	0.002	ppm
01:00 - 02:00	0.001	0.002	0.003	0.002	0.003	0.003	0.002	ppm
02:00 - 03:00	0.002	0.002	0.002	0.003	0.003	0.003	0.002	ppm
03:00 - 04:00	0.001	0.002	0.002	0.003	0.003	0.003	0.002	ppm
04:00 - 05:00	0.001	0.004	0.004	0.003	0.004	0.004	0.002	ppm
05:00 - 06:00	0.001	0.005	0.006	0.004	0.006	0.003	0.003	ppm
06:00 - 07:00	0.001	0.004	0.005	0.003	0.007	0.004	0.003	ppm
07:00 - 08:00	0.001	0.004	0.006	0.006	0.007	0.005	0.006	ppm
08:00 - 09:00	0.001	0.004	0.005	0.004	0.006	0.004	0.006	ppm
09:00 - 10:00	0.002	0.004	0.005	0.003	0.003	0.003	0.008	ppm
Maximum 1 hr.	0.003	0.007	0.012	0.007	0.007	0.005	0.008	ppm
Average 24 hr.	0.002	0.003	0.004	0.004	0.004	0.003	0.004	ppm
Standard (1 hr.) ¹	0.17	0.17	0.17	0.17	0.17	0.17	0.17	ppm

REMARK : ¹ Notification of The National Environmental Board Volume 33 B.E. 2552 (2009)² Start Time

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



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By..

24/08/2024

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

Request No. ATR6708022

Report No. 6708-0269 - 6708-0275

TEST REPORT

CUSTOMER : GC Polyols Company Limited.
 ADDRESS : Noen Phra Sub-district, Mueang Rayong District, Rayong, 21150
 SAMPLE SOURCE : GCP Plant
 SAMPLE NAME : วัดมาบชลุค
 RECEIVED DATE : 17/08/2024 SAMPLE NO. : A67080269 - A67080275
 TESTED DATE : 17/08/2024-19/08/2024 REPORTED DATE : 20/08/2024

PARAMETER**	TEST METHOD	SAMPLING DATE	RESULT ^{/1}	UNIT
Propylene oxide	NIOSH1612/GC-FID	02-03/08/2024	ND	mg/m ³
			ND	ppm
		03-04/08/2024	ND	mg/m ³
			ND	ppm
		04-05/08/2024	ND	mg/m ³
			ND	ppm
		05-06/08/2024	ND	mg/m ³
			ND	ppm
		06-07/08/2024	ND	mg/m ³
			ND	ppm
		07-08/08/2024	1.70	mg/m ³
			0.72	ppm
		08-09/08/2024	ND	mg/m ³
			ND	ppm

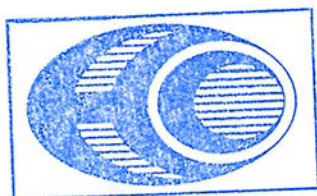
REMARK:

^{/1} ND = Non detectable : When detection limit of Propylene Oxide is less than 0.10 mg/m³ or 0.05 ppm.

** Sampling By Eastern Thai Consulting 1992 Co.,Ltd., (Mr. Tummarut Photankham)

Analysed By SECOT Co.,Ltd.

GPS = Sampling at UTM 47P 736823E 1407369N



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Examined By.

20/08/2024

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Request No. LA67-R0848

Report No. R6708-4470

TEST REPORT

CUSTOMER : GC Polyols Company Limited
ADDRESS : Noen Phra Sub-district, Mueang Rayong District, Rayong 21150
SAMPLE SOURCE : GCP Plant
SAMPLE POINT : วัดมาบขลุค
SAMPLING DATE : 02-03/08/2024
RECEIVED DATE : 09/08/2024
SAMPLE NO. : 29861
REPORTED DATE : 02/09/2024

PARAMETER	TEST METHOD	NON DETECTION		RESULT		STANDARD ^{1/1}	UNIT
		ppbv	µg/m ³	ppbv	µg/m ³		
VOCs ^{1/3} (24 hours)							
Difluorochloromethane	EPA Methods TO-15,1999	0.04	0.14	0.52	1.84	-	µg/m ³
Propene	EPA Methods TO-15,1999	0.10	0.17	ND	ND	-	µg/m ³
Dichlorodifluoromethane	EPA Methods TO-15,1999	0.02	0.10	0.67	3.31	-	µg/m ³
Chloromethane	EPA Methods TO-15,1999	0.04	0.08	2.00	4.13	-	µg/m ³
1,2-Dichlorotetrafluoroethane	EPA Methods TO-15,1999	0.02	0.14	ND	ND	-	µg/m ³
Acetaldehyde	EPA Methods TO-15,1999	0.20	0.36	1.66	2.99	860	µg/m ³
Chloroethane	EPA Methods TO-15,1999	0.003	0.008	ND	ND	20	µg/m ³
2-Methyl-1-propene	EPA Methods TO-15,1999	0.10	0.23	ND	ND	-	µg/m ³
1,3-Butadiene	EPA Methods TO-15,1999	0.003	0.007	ND	ND	5.3	µg/m ³
Bromomethane	EPA Methods TO-15,1999	0.004	0.016	ND	ND	190	µg/m ³
Ethyl Chloride	EPA Methods TO-15,1999	0.10	0.26	ND	ND	-	µg/m ³
Ethanol	EPA Methods TO-15,1999	0.20	0.38	3.24	6.11	-	µg/m ³
Trichlorofluoromethane	EPA Methods TO-15,1999	0.02	0.11	0.36	2.02	-	µg/m ³
Acetonitrile	EPA Methods TO-15,1999	0.20	0.34	ND	ND	-	µg/m ³
Acrolein	EPA Methods TO-15,1999	0.005	0.011	ND	ND	0.55	µg/m ³
Acetone	EPA Methods TO-15,1999	0.10	0.24	6.02	14.31	-	µg/m ³
Propanal	EPA Methods TO-15,1999	0.04	0.10	ND	ND	-	µg/m ³
Isopropyl alcohol	EPA Methods TO-15,1999	0.04	0.12	0.95	2.34	-	µg/m ³
Pentane	EPA Methods TO-15,1999	0.04	0.12	0.26	0.77	-	µg/m ³
2-Methyl-1,3-butadiene	EPA Methods TO-15,1999	0.04	0.11	0.35	0.97	-	µg/m ³
1,1-Dichloroethene	EPA Methods TO-15,1999	0.04	0.16	ND	ND	-	µg/m ³
Acrylonitrile	EPA Methods TO-15,1999	0.005	0.011	0.04	0.97	10	µg/m ³
1,1,2-Trichloro-1,2,2-Trifluoroethane	EPA Methods TO-15,1999	0.02	0.15	ND	ND	-	µg/m ³
Iodomethane	EPA Methods TO-15,1999	0.02	0.12	ND	ND	-	µg/m ³
Dichloromethane	EPA Methods TO-15,1999	0.007	0.024	0.61	2.12	210	µg/m ³
Carbon disulfide	EPA Methods TO-15,1999	0.002	0.006	0.11	0.34	100 ^{1/2}	µg/m ³
1-Propanol	EPA Methods TO-15,1999	1.00	2.46	ND	ND	-	µg/m ³
2-Methoxy-2-methylpropane	EPA Methods TO-15,1999	0.02	0.07	ND	ND	-	µg/m ³
trans-1,2-Dichloroethene	EPA Methods TO-15,1999	0.02	0.07	ND	ND	-	µg/m ³

REMARK : ^{1/1} Notification of Pollution Control Department B.E. 2552 (2009) (24 hours)
^{1/2} Notification of The National Environmental Board B.E. 2560 (2017)
^{1/3} Sampling by Eastern Thai Consulting 1992 Co., Ltd. (Measurement By Mr. Tummarut Photankhum)
Analyzed by Secot Co., Ltd.



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Examined By

02/09/2024

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY
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Request No. LA67-R0848

Report No. R6708-4470

TEST REPORT

CUSTOMER : GC Polyols Company Limited
ADDRESS : Noen Phra Sub-district, Mueang Rayong District, Rayong 21150
SAMPLE SOURCE : GCP Plant
SAMPLE POINT : วัดมาบขลุค
SAMPLING DATE : 02-03/08/2024
RECEIVED DATE : 09/08/2024
SAMPLE NO. : 29861
REPORTED DATE : 02/09/2024

PARAMETER	TEST METHOD	NON DETECTION		RESULT		STANDARD ^{/1}	UNIT
		ppbv	µg/m ³	ppbv	µg/m ³		
VOCs ^{/3} (24 hours)							
Methacrolein	EPA Methods TO-15,1999	0.10	0.29	ND	ND	-	µg/m ³
Cyclopentane	EPA Methods TO-15,1999	0.04	0.11	ND	ND	-	µg/m ³
Acetic acid ethenyl ester	EPA Methods TO-15,1999	0.04	0.16	ND	ND	-	µg/m ³
1,1-Dichloroethane	EPA Methods TO-15,1999	0.04	0.16	ND	ND	-	µg/m ³
Methyl vinyl ketone	EPA Methods TO-15,1999	0.10	0.29	ND	ND	-	µg/m ³
Butanal	EPA Methods TO-15,1999	0.10	0.29	0.26	0.77	-	µg/m ³
2-Butanone	EPA Methods TO-15,1999	0.10	0.29	0.33	0.97	-	µg/m ³
Hexane	EPA Methods TO-15,1999	0.04	0.14	ND	ND	-	µg/m ³
cis-1,2-Dichloroethene	EPA Methods TO-15,1999	0.04	0.16	ND	ND	-	µg/m ³
Trichloromethane	EPA Methods TO-15,1999	0.005	0.024	0.06	0.29	57	µg/m ³
1,1,1-Trichloroethane	EPA Methods TO-15,1999	0.04	0.22	ND	ND	-	µg/m ³
1,2-Dichloroethane	EPA Methods TO-15,1999	0.003	0.012	0.04	0.16	48	µg/m ³
1-Butanol	EPA Methods TO-15,1999	0.20	0.61	4.45	13.49	-	µg/m ³
Benzene	EPA Methods TO-15,1999	0.004	0.013	0.13	0.42	7.6	µg/m ³
Carbon tetrachloride	EPA Methods TO-15,1999	0.004	0.025	0.15	0.94	150	µg/m ³
Cyclohexane	EPA Methods TO-15,1999	0.02	0.07	2.33	8.02	-	µg/m ³
2-Pentanone	EPA Methods TO-15,1999	0.04	0.14	0.13	0.46	-	µg/m ³
3-Pentanone	EPA Methods TO-15,1999	0.04	0.14	ND	ND	-	µg/m ³
Pentanal	EPA Methods TO-15,1999	0.20	0.70	ND	ND	-	µg/m ³
Trichloroethylene	EPA Methods TO-15,1999	0.006	0.032	ND	ND	130	µg/m ³
1,2-Dichloropropane	EPA Methods TO-15,1999	0.007	0.032	ND	ND	82	µg/m ³
1,4-Dioxane	EPA Methods TO-15,1999	0.10	0.36	ND	ND	860	µg/m ³
Bromodichloromethane	EPA Methods TO-15,1999	0.02	0.13	0.02	0.13	-	µg/m ³
Methyl isobutyl ketone	EPA Methods TO-15,1999	0.10	0.41	0.10	0.41	-	µg/m ³
cis-1,3-Dichloro-1-Propene	EPA Methods TO-15,1999	0.04	0.18	ND	ND	-	µg/m ³
trans-1,3-Dichloro-1-Propene	EPA Methods TO-15,1999	0.10	0.45	ND	ND	-	µg/m ³
Toluene	EPA Methods TO-15,1999	0.02	0.08	0.52	1.96	-	µg/m ³
1,1,2-Trichloroethane	EPA Methods TO-15,1999	0.02	0.11	ND	ND	-	µg/m ³
3-Hexanone	EPA Methods TO-15,1999	0.10	0.41	ND	ND	-	µg/m ³

REMARK :

^{/1} Notification of Pollution Control Department B.E. 2552 (2009) (24 hours)^{/2} Notification of The National Environmental Board B.E. 2560 (2017)^{/3} Sampling by Eastern Thai Consulting 1992 Co., Ltd. (Measurement By Mr. Tummarut Photankhum)

Analyzed by Secot Co., Ltd.



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Examined By

02/09/2024

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Request No. LA67-R0848

Report No. R6708-4470

TEST REPORT

CUSTOMER : GC Polyols Company Limited
ADDRESS : Noen Phra Sub-district, Mueang Rayong District, Rayong 21150
SAMPLE SOURCE : GCP Plant
SAMPLE POINT : วัดมาบขลุค
SAMPLING DATE : 02-03/08/2024
RECEIVED DATE : 09/08/2024
SAMPLE NO. : 29861
REPORTED DATE : 02/09/2024

PARAMETER	TEST METHOD	NON DETECTION		RESULT		STANDARD ^{/1}	UNIT
		ppbv	µg/m ³	ppbv	µg/m ³		
VOCs ^{/3} (24 hours)							
2-Hexanone	EPA Methods TO-15,1999	0.04	0.16	ND	ND	-	µg/m ³
Hexanal	EPA Methods TO-15,1999	0.20	0.82	ND	ND	-	µg/m ³
Dibromochloromethane	EPA Methods TO-15,1999	0.02	0.17	ND	ND	-	µg/m ³
Tetrachloroethylene	EPA Methods TO-15,1999	0.006	0.041	ND	ND	400	µg/m ³
1,2-Dibromoethane	EPA Methods TO-15,1999	0.006	0.046	ND	ND	370	µg/m ³
Chlorobenzene	EPA Methods TO-15,1999	0.02	0.09	0.11	0.51	-	µg/m ³
Ethylbenzene	EPA Methods TO-15,1999	0.02	0.09	0.08	0.35	-	µg/m ³
m,p-Xylene	EPA Methods TO-15,1999	0.04	0.17	0.23	1.00	-	µg/m ³
Styrene	EPA Methods TO-15,1999	0.02	0.09	0.06	0.26	-	µg/m ³
o-Xylene	EPA Methods TO-15,1999	0.02	0.09	0.06	0.26	-	µg/m ³
Tribromomethane	EPA Methods TO-15,1999	0.02	0.21	0.02	0.21	-	µg/m ³
1,1,2,2-Tetrachloroethane	EPA Methods TO-15,1999	0.010	0.069	ND	ND	83	µg/m ³
1,3,5-Trimethylbenzene	EPA Methods TO-15,1999	0.02	0.10	0.04	0.20	-	µg/m ³
1,2,4-Trimethylbenzene	EPA Methods TO-15,1999	0.02	0.10	0.06	0.29	-	µg/m ³
1,3-Dichlorobenzene	EPA Methods TO-15,1999	0.02	0.12	0.02	0.12	-	µg/m ³
Benzyl Chloride	EPA Methods TO-15,1999	0.008	0.041	ND	ND	12	µg/m ³
1,4-Dichlorobenzene	EPA Methods TO-15,1999	0.008	0.048	<0.04	<0.24	1100	µg/m ³
1,2,3-Trimethylbenzene	EPA Methods TO-15,1999	0.02	0.10	0.04	0.20	-	µg/m ³
1,2-Dichlorobenzene	EPA Methods TO-15,1999	0.02	0.12	ND	ND	-	µg/m ³
1,2,4-Trichlorobenzene	EPA Methods TO-15,1999	0.02	0.15	0.02	0.15	-	µg/m ³

REMARK : ^{/1} Notification of Pollution Control Department B.E. 2552 (2009) (24 hours)
^{/2} Notification of The National Environmental Board B.E. 2560 (2017)
^{/3} Sampling by Eastern Thai Consulting 1992 Co., Ltd. (Measurement By Mr. Tummarut Photankhum)
Analyzed by Secot Co., Ltd.



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Examined By

02/09/2024

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Request No. LA67-R0848

Report No. R6708-4471

TEST REPORT

CUSTOMER : GC Polyols Company Limited
ADDRESS : Noen Phra Sub-district, Mueang Rayong District, Rayong 21150
SAMPLE SOURCE : GCP Plant
SAMPLE POINT : วัดมาบชูด
SAMPLING DATE : 03-04/08/2024
RECEIVED DATE : 09/08/2024

SAMPLE NO. : 29862
REPORTED DATE : 02/09/2024

PARAMETER	TEST METHOD	NON DETECTION		RESULT		STANDARD ¹	UNIT
		ppbv	µg/m ³	ppbv	µg/m ³		
VOCs ² (24 hours)							
Difluorochloromethane	EPA Methods TO-15,1999	0.04	0.14	0.68	2.41	-	µg/m ³
Propene	EPA Methods TO-15,1999	0.10	0.17	1.87	3.22	-	µg/m ³
Dichlorodifluoromethane	EPA Methods TO-15,1999	0.02	0.10	1.05	5.19	-	µg/m ³
Chloromethane	EPA Methods TO-15,1999	0.04	0.08	1.02	2.11	-	µg/m ³
1,2-Dichlorotetrafluoroethane	EPA Methods TO-15,1999	0.02	0.14	ND	ND	-	µg/m ³
Acetaldehyde	EPA Methods TO-15,1999	0.20	0.36	1.21	2.18	860	µg/m ³
Chloroethane	EPA Methods TO-15,1999	0.003	0.008	ND	ND	20	µg/m ³
2-Methyl-1-propene	EPA Methods TO-15,1999	0.10	0.23	0.25	0.57	-	µg/m ³
1,3-Butadiene	EPA Methods TO-15,1999	0.003	0.007	ND	ND	5.3	µg/m ³
Bromomethane	EPA Methods TO-15,1999	0.004	0.016	ND	ND	190	µg/m ³
Ethyl Chloride	EPA Methods TO-15,1999	0.10	0.26	ND	ND	-	µg/m ³
Ethanol	EPA Methods TO-15,1999	0.20	0.38	2.78	5.24	-	µg/m ³
Trichlorofluoromethane	EPA Methods TO-15,1999	0.02	0.11	0.36	2.02	-	µg/m ³
Acetonitrile	EPA Methods TO-15,1999	0.20	0.34	ND	ND	-	µg/m ³
Acrolein	EPA Methods TO-15,1999	0.005	0.011	ND	ND	0.55	µg/m ³
Acetone	EPA Methods TO-15,1999	0.10	0.24	12.32	29.28	-	µg/m ³
Propanal	EPA Methods TO-15,1999	0.04	0.10	ND	ND	-	µg/m ³
Isopropyl alcohol	EPA Methods TO-15,1999	0.04	0.12	ND	ND	-	µg/m ³
Pentane	EPA Methods TO-15,1999	0.04	0.12	ND	ND	-	µg/m ³
2-Methyl-1,3-butadiene	EPA Methods TO-15,1999	0.04	0.11	0.48	1.34	-	µg/m ³
1,1-Dichloroethene	EPA Methods TO-15,1999	0.04	0.16	ND	ND	-	µg/m ³
Acrylonitrile	EPA Methods TO-15,1999	0.005	0.011	0.07	0.15	10	µg/m ³
1,1,2-Trichloro-1,2,2-Trifluoroethane	EPA Methods TO-15,1999	0.02	0.15	0.06	0.46	-	µg/m ³
Iodomethane	EPA Methods TO-15,1999	0.02	0.12	ND	ND	-	µg/m ³
Dichloromethane	EPA Methods TO-15,1999	0.007	0.024	1.10	3.82	210	µg/m ³
Carbon disulfide	EPA Methods TO-15,1999	0.002	0.006	0.13	0.40	100 ²	µg/m ³
1-Propanol	EPA Methods TO-15,1999	1.00	2.46	ND	ND	-	µg/m ³
2-Methoxy-2-methylpropane	EPA Methods TO-15,1999	0.02	0.07	ND	ND	-	µg/m ³
trans-1,2-Dichloroethene	EPA Methods TO-15,1999	0.02	0.07	ND	ND	-	µg/m ³

REMARK : ¹ Notification of Pollution Control Department B.E. 2552 (2009) (24 hours)² Notification of The National Environmental Board B.E. 2560 (2017)³ Sampling by Eastern Thai Consulting 1992 Co., Ltd. (Measurement By Mr. Tummarut Photankhum)

Analyzed by Secot Co., Ltd.



Examined By

(MS)

02/09/2024

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

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Request No. LA67-R0848

Report No. R6708-4471

TEST REPORT

CUSTOMER : GC Polyols Company Limited
ADDRESS : Noen Phra Sub-district, Mueang Rayong District, Rayong 21150
SAMPLE SOURCE : GCP Plant
SAMPLE POINT : วัดมาบชุลูด
SAMPLING DATE : 03-04/08/2024
RECEIVED DATE : 09/08/2024

SAMPLE NO. : 29862
REPORTED DATE : 02/09/2024

PARAMETER	TEST METHOD	NON DETECTION		RESULT		STANDARD ¹	UNIT
		ppbv	µg/m ³	ppbv	µg/m ³		
VOCs ² (24 hours)							
Methacrolein	EPA Methods TO-15,1999	0.10	0.29	ND	ND	-	µg/m ³
Cyclopentane	EPA Methods TO-15,1999	0.04	0.11	0.15	0.43	-	µg/m ³
Acetic acid ethenyl ester	EPA Methods TO-15,1999	0.04	0.16	ND	ND	-	µg/m ³
1,1-Dichloroethane	EPA Methods TO-15,1999	0.04	0.16	ND	ND	-	µg/m ³
Methyl vinyl ketone	EPA Methods TO-15,1999	0.10	0.29	ND	ND	-	µg/m ³
Butanal	EPA Methods TO-15,1999	0.10	0.29	0.48	1.42	-	µg/m ³
2-Butanone	EPA Methods TO-15,1999	0.10	0.29	1.37	4.04	-	µg/m ³
Hexane	EPA Methods TO-15,1999	0.04	0.14	0.68	2.40	-	µg/m ³
cis-1,2-Dichloroethene	EPA Methods TO-15,1999	0.04	0.16	ND	ND	-	µg/m ³
Trichloromethane	EPA Methods TO-15,1999	0.005	0.024	ND	ND	57	µg/m ³
1,1,1-Trichloroethane	EPA Methods TO-15,1999	0.04	0.22	ND	ND	-	µg/m ³
1,2-Dichloroethane	EPA Methods TO-15,1999	0.003	0.012	0.11	0.45	48	µg/m ³
1-Butanol	EPA Methods TO-15,1999	0.20	0.61	4.91	14.88	-	µg/m ³
Benzene	EPA Methods TO-15,1999	0.004	0.013	0.26	0.83	7.6	µg/m ³
Carbon tetrachloride	EPA Methods TO-15,1999	0.004	0.025	0.15	0.94	150	µg/m ³
Cyclohexane	EPA Methods TO-15,1999	0.02	0.07	0.89	3.06	-	µg/m ³
2-Pentanone	EPA Methods TO-15,1999	0.04	0.14	0.24	0.85	-	µg/m ³
3-Pentanone	EPA Methods TO-15,1999	0.04	0.14	0.04	0.14	-	µg/m ³
Pentanal	EPA Methods TO-15,1999	0.20	0.70	ND	ND	-	µg/m ³
Trichloroethylene	EPA Methods TO-15,1999	0.006	0.032	<0.04	<0.21	130	µg/m ³
1,2-Dichloropropane	EPA Methods TO-15,1999	0.007	0.032	ND	ND	82	µg/m ³
1,4-Dioxane	EPA Methods TO-15,1999	0.10	0.36	ND	ND	860	µg/m ³
Bromodichloromethane	EPA Methods TO-15,1999	0.02	0.13	ND	ND	-	µg/m ³
Methyl isobutyl ketone	EPA Methods TO-15,1999	0.10	0.41	0.84	3.44	-	µg/m ³
cis-1,3-Dichloro-1-Propene	EPA Methods TO-15,1999	0.04	0.18	ND	ND	-	µg/m ³
trans-1,3-Dichloro-1-Propene	EPA Methods TO-15,1999	0.10	0.45	ND	ND	-	µg/m ³
Toluene	EPA Methods TO-15,1999	0.02	0.08	3.24	12.20	-	µg/m ³
1,1,2-Trichloroethane	EPA Methods TO-15,1999	0.02	0.11	ND	ND	-	µg/m ³
3-Hexanone	EPA Methods TO-15,1999	0.10	0.41	ND	ND	-	µg/m ³

REMARK : ¹ Notification of Pollution Control Department B.E. 2552 (2009) (24 hours)² Notification of The National Environmental Board B.E. 2560 (2017)³ Sampling by Eastern Thai Consulting 1992 Co., Ltd. (Measurement By Mr. Tummarut Photankhum)

Analyzed by Secot Co., Ltd.



Examined By

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บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

02/09/2024

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Request No. LA67-R0848

Report No. R6708-4471

TEST REPORT

CUSTOMER : GC Polyols Company Limited
ADDRESS : Noen Phra Sub-district, Mueang Rayong District, Rayong 21150
SAMPLE SOURCE : GCP Plant
SAMPLE POINT : วัดมาบขลุ่ด
SAMPLING DATE : 03-04/08/2024
RECEIVED DATE : 09/08/2024
SAMPLE NO. : 29862
REPORTED DATE : 02/09/2024

PARAMETER	TEST METHOD	NON DETECTION		RESULT		STANDARD ^{1/}	UNIT
		ppbv	µg/m ³	ppbv	µg/m ³		
VOCs ^{3/} (24 hours)							
2-Hexanone	EPA Methods TO-15,1999	0.04	0.16	1.20	4.92	-	µg/m ³
Hexanal	EPA Methods TO-15,1999	0.20	0.82	ND	ND	-	µg/m ³
Dibromochloromethane	EPA Methods TO-15,1999	0.02	0.17	ND	ND	-	µg/m ³
Tetrachloroethylene	EPA Methods TO-15,1999	0.006	0.041	<0.04	<0.27	400	µg/m ³
1,2-Dibromoethane	EPA Methods TO-15,1999	0.006	0.046	ND	ND	370	µg/m ³
Chlorobenzene	EPA Methods TO-15,1999	0.02	0.09	0.02	0.09	-	µg/m ³
Ethylbenzene	EPA Methods TO-15,1999	0.02	0.09	0.28	1.22	-	µg/m ³
m,p-Xylene	EPA Methods TO-15,1999	0.04	0.17	0.35	1.52	-	µg/m ³
Styrene	EPA Methods TO-15,1999	0.02	0.09	0.06	0.26	-	µg/m ³
o-Xylene	EPA Methods TO-15,1999	0.02	0.09	0.15	0.65	-	µg/m ³
Tribromomethane	EPA Methods TO-15,1999	0.02	0.21	ND	ND	-	µg/m ³
1,1,2,2-Tetrachloroethane	EPA Methods TO-15,1999	0.010	0.069	<0.10	<0.69	83	µg/m ³
1,3,5-Trimethylbenzene	EPA Methods TO-15,1999	0.02	0.10	0.08	0.39	-	µg/m ³
1,2,4-Trimethylbenzene	EPA Methods TO-15,1999	0.02	0.10	0.10	0.49	-	µg/m ³
1,3-Dichlorobenzene	EPA Methods TO-15,1999	0.02	0.12	0.02	0.12	-	µg/m ³
Benzyl Chloride	EPA Methods TO-15,1999	0.008	0.041	ND	ND	12	µg/m ³
1,4-Dichlorobenzene	EPA Methods TO-15,1999	0.008	0.048	<0.04	<0.24	1100	µg/m ³
1,2,3-Trimethylbenzene	EPA Methods TO-15,1999	0.02	0.10	0.04	0.20	-	µg/m ³
1,2-Dichlorobenzene	EPA Methods TO-15,1999	0.02	0.12	ND	ND	-	µg/m ³
1,2,4-Trichlorobenzene	EPA Methods TO-15,1999	0.02	0.15	0.11	0.82	-	µg/m ³

REMARK : ^{1/} Notification of Pollution Control Department B.E. 2552 (2009) (24 hours)
^{2/} Notification of The National Environmental Board B.E. 2560 (2017)
^{3/} Sampling by Eastern Thai Consulting 1992 Co., Ltd. (Measurement By Mr. Tummarut Photankhum)
Analyzed by Secot Co., Ltd.



Examined By

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บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

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Request No. LA67-R0848

Report No. R6708-4472

TEST REPORT

CUSTOMER : GC Polyols Company Limited
ADDRESS : Noen Phra Sub-district, Mueang Rayong District, Rayong 21150
SAMPLE SOURCE : GCP Plant
SAMPLE POINT : วัดมาบขลุ่ต
SAMPLING DATE : 04-05/08/2024
RECEIVED DATE : 09/08/2024
SAMPLE NO. : 29863
REPORTED DATE : 02/09/2024

PARAMETER	TEST METHOD	NON DETECTION		RESULT		STANDARD ^{1/}	UNIT
		ppbv	µg/m ³	ppbv	µg/m ³		
VOCs ^{3/} (24 hours)							
Difluorochloromethane	EPA Methods TO-15,1999	0.04	0.14	0.37	1.31	-	µg/m ³
Propene	EPA Methods TO-15,1999	0.10	0.17	2.29	3.94	-	µg/m ³
Dichlorodifluoromethane	EPA Methods TO-15,1999	0.02	0.10	0.59	2.92	-	µg/m ³
Chloromethane	EPA Methods TO-15,1999	0.04	0.08	1.10	2.27	-	µg/m ³
1,2-Dichlorotetrafluoroethane	EPA Methods TO-15,1999	0.02	0.14	ND	ND	-	µg/m ³
Acetaldehyde	EPA Methods TO-15,1999	0.20	0.36	1.73	3.11	860	µg/m ³
Chloroethane	EPA Methods TO-15,1999	0.003	0.008	0.23	0.59	20	µg/m ³
2-Methyl-1-propene	EPA Methods TO-15,1999	0.10	0.23	0.55	1.26	-	µg/m ³
1,3-Butadiene	EPA Methods TO-15,1999	0.003	0.007	ND	ND	5.3	µg/m ³
Bromomethane	EPA Methods TO-15,1999	0.004	0.016	ND	ND	190	µg/m ³
Ethyl Chloride	EPA Methods TO-15,1999	0.10	0.26	ND	ND	-	µg/m ³
Ethanol	EPA Methods TO-15,1999	0.20	0.38	2.74	5.17	-	µg/m ³
Trichlorofluoromethane	EPA Methods TO-15,1999	0.02	0.11	0.38	2.14	-	µg/m ³
Acetonitrile	EPA Methods TO-15,1999	0.20	0.34	ND	ND	-	µg/m ³
Acrolein	EPA Methods TO-15,1999	0.005	0.011	ND	ND	0.55	µg/m ³
Acetone	EPA Methods TO-15,1999	0.10	0.24	10.65	25.31	-	µg/m ³
Propanal	EPA Methods TO-15,1999	0.04	0.10	ND	ND	-	µg/m ³
Isopropyl alcohol	EPA Methods TO-15,1999	0.04	0.12	ND	ND	-	µg/m ³
Pentane	EPA Methods TO-15,1999	0.04	0.12	0.95	2.81	-	µg/m ³
2-Methyl-1,3-butadiene	EPA Methods TO-15,1999	0.04	0.11	0.35	0.97	-	µg/m ³
1,1-Dichloroethene	EPA Methods TO-15,1999	0.04	0.16	ND	ND	-	µg/m ³
Acrylonitrile	EPA Methods TO-15,1999	0.005	0.011	0.11	0.24	10	µg/m ³
1,1,2-Trichloro-1,2,2-Trifluoroethane	EPA Methods TO-15,1999	0.02	0.15	ND	ND	-	µg/m ³
Iodomethane	EPA Methods TO-15,1999	0.02	0.12	ND	ND	-	µg/m ³
Dichloromethane	EPA Methods TO-15,1999	0.007	0.024	0.61	2.12	210	µg/m ³
Carbon disulfide	EPA Methods TO-15,1999	0.002	0.006	0.11	0.34	100 ^{2/}	µg/m ³
1-Propanol	EPA Methods TO-15,1999	1.00	2.46	ND	ND	-	µg/m ³
2-Methoxy-2-methylpropane	EPA Methods TO-15,1999	0.02	0.07	ND	ND	-	µg/m ³
trans-1,2-Dichloroethene	EPA Methods TO-15,1999	0.02	0.07	ND	ND	-	µg/m ³

REMARK : ^{1/} Notification of Pollution Control Department B.E. 2552 (2009) (24 hours)^{2/} Notification of The National Environmental Board B.E. 2560 (2017)^{3/} Sampling by Eastern Thai Consulting 1992 Co., Ltd. Measurement By Mr. Tummarut Photankhum)
Analyzed by Secot Co., Ltd.

Examined By

(MS.)

02/09/2024

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Request No. LA67-R0848

Report No. R6708-4472

TEST REPORT

CUSTOMER : GC Polyols Company Limited
ADDRESS : Noen Phra Sub-district, Mueang Rayong District, Rayong 21150
SAMPLE SOURCE : GCP Plant
SAMPLE POINT : วัดมาบขุด
SAMPLING DATE : 04-05/08/2024
RECEIVED DATE : 09/08/2024
SAMPLE NO. : 29863
REPORTED DATE : 02/09/2024

PARAMETER	TEST METHOD	NON DETECTION		RESULT		STANDARD ¹⁾	UNIT
		ppbv	µg/m ³	ppbv	µg/m ³		
VOCs ³⁾ (24 hours)							
Methacrolein	EPA Methods TO-15,1999	0.10	0.29	ND	ND	-	µg/m ³
Cyclopentane	EPA Methods TO-15,1999	0.04	0.11	0.15	0.43	-	µg/m ³
Acetic acid ethenyl ester	EPA Methods TO-15,1999	0.04	0.16	ND	ND	-	µg/m ³
1,1-Dichloroethane	EPA Methods TO-15,1999	0.04	0.16	ND	ND	-	µg/m ³
Methyl vinyl ketone	EPA Methods TO-15,1999	0.10	0.29	ND	ND	-	µg/m ³
Butanal	EPA Methods TO-15,1999	0.10	0.29	0.35	1.03	-	µg/m ³
2-Butanone	EPA Methods TO-15,1999	0.10	0.29	0.70	2.06	-	µg/m ³
Hexane	EPA Methods TO-15,1999	0.04	0.14	0.68	2.40	-	µg/m ³
cis-1,2-Dichloroethene	EPA Methods TO-15,1999	0.04	0.16	ND	ND	-	µg/m ³
Trichloromethane	EPA Methods TO-15,1999	0.005	0.024	0.06	0.29	57	µg/m ³
1,1,1-Trichloroethane	EPA Methods TO-15,1999	0.04	0.22	ND	ND	-	µg/m ³
1,2-Dichloroethane	EPA Methods TO-15,1999	0.003	0.012	0.08	0.32	48	µg/m ³
1-Butanol	EPA Methods TO-15,1999	0.20	0.61	4.89	14.82	-	µg/m ³
Benzene	EPA Methods TO-15,1999	0.004	0.013	0.55	1.76	7.6	µg/m ³
Carbon tetrachloride	EPA Methods TO-15,1999	0.004	0.025	0.15	0.94	150	µg/m ³
Cyclohexane	EPA Methods TO-15,1999	0.02	0.07	1.04	3.58	-	µg/m ³
2-Pentanone	EPA Methods TO-15,1999	0.04	0.14	0.17	0.60	-	µg/m ³
3-Pentanone	EPA Methods TO-15,1999	0.04	0.14	0.04	0.14	-	µg/m ³
Pentanal	EPA Methods TO-15,1999	0.20	0.70	ND	ND	-	µg/m ³
Trichloroethylene	EPA Methods TO-15,1999	0.006	0.032	ND	ND	130	µg/m ³
1,2-Dichloropropane	EPA Methods TO-15,1999	0.007	0.032	ND	ND	82	µg/m ³
1,4-Dioxane	EPA Methods TO-15,1999	0.10	0.36	ND	ND	860	µg/m ³
Bromodichloromethane	EPA Methods TO-15,1999	0.02	0.13	ND	ND	-	µg/m ³
Methyl isobutyl ketone	EPA Methods TO-15,1999	0.10	0.41	0.33	1.35	-	µg/m ³
cis-1,3-Dichloro-1-Propene	EPA Methods TO-15,1999	0.04	0.18	ND	ND	-	µg/m ³
trans-1,3-Dichloro-1-Propene	EPA Methods TO-15,1999	0.10	0.45	ND	ND	-	µg/m ³
Toluene	EPA Methods TO-15,1999	0.02	0.08	1.71	6.44	-	µg/m ³
1,1,2-Trichloroethane	EPA Methods TO-15,1999	0.02	0.11	ND	ND	-	µg/m ³
3-Hexanone	EPA Methods TO-15,1999	0.10	0.41	ND	ND	-	µg/m ³

REMARK : ¹⁾ Notification of Pollution Control Department B.E. 2552 (2009) (24 hours)²⁾ Notification of The National Environmental Board B.E. 2560 (2017)³⁾ Sampling by Eastern Thai Consulting 1992 Co., Ltd. (Measurement By Mr. Tummarut Photankhum)
Analyzed by Secot Co., Ltd.

Examined By

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บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

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02/09/2024

Request No. LA67-R0848

Report No. R6708-4472

TEST REPORT

CUSTOMER : GC Polyols Company Limited
ADDRESS : Noen Phra Sub-district, Mueang Rayong District, Rayong 21150
SAMPLE SOURCE : GCP Plant
SAMPLE POINT : วัดมาบชลูด
SAMPLING DATE : 04-05/08/2024
RECEIVED DATE : 09/08/2024
SAMPLE NO. : 29863
REPORTED DATE : 02/09/2024

PARAMETER	TEST METHOD	NON DETECTION		RESULT		STANDARD ¹	UNIT
		ppbv	µg/m ³	ppbv	µg/m ³		
VOCs ^{1/3} (24 hours)							
2-Hexanone	EPA Methods TO-15,1999	0.04	0.16	ND	ND	-	µg/m ³
Hexanal	EPA Methods TO-15,1999	0.20	0.82	ND	ND	-	µg/m ³
Dibromochloromethane	EPA Methods TO-15,1999	0.02	0.17	0.02	0.17	-	µg/m ³
Tetrachloroethylene	EPA Methods TO-15,1999	0.006	0.041	ND	ND	400	µg/m ³
1,2-Dibromoethane	EPA Methods TO-15,1999	0.006	0.046	<0.04	<0.31	370	µg/m ³
Chlorobenzene	EPA Methods TO-15,1999	0.02	0.09	0.04	0.18	-	µg/m ³
Ethylbenzene	EPA Methods TO-15,1999	0.02	0.09	0.17	0.74	-	µg/m ³
m,p-Xylene	EPA Methods TO-15,1999	0.04	0.17	0.31	1.35	-	µg/m ³
Styrene	EPA Methods TO-15,1999	0.02	0.09	0.11	0.47	-	µg/m ³
o-Xylene	EPA Methods TO-15,1999	0.02	0.09	0.06	0.26	-	µg/m ³
Tribromomethane	EPA Methods TO-15,1999	0.02	0.21	0.02	0.21	-	µg/m ³
1,1,2,2-Tetrachloroethane	EPA Methods TO-15,1999	0.010	0.069	<0.10	<0.69	83	µg/m ³
1,3,5-Trimethylbenzene	EPA Methods TO-15,1999	0.02	0.10	0.02	0.10	-	µg/m ³
1,2,4-Trimethylbenzene	EPA Methods TO-15,1999	0.02	0.10	0.06	0.29	-	µg/m ³
1,3-Dichlorobenzene	EPA Methods TO-15,1999	0.02	0.12	0.02	0.12	-	µg/m ³
Benzyl Chloride	EPA Methods TO-15,1999	0.008	0.041	<0.10	<0.52	12	µg/m ³
1,4-Dichlorobenzene	EPA Methods TO-15,1999	0.008	0.048	<0.04	<0.24	1100	µg/m ³
1,2,3-Trimethylbenzene	EPA Methods TO-15,1999	0.02	0.10	0.02	0.10	-	µg/m ³
1,2-Dichlorobenzene	EPA Methods TO-15,1999	0.02	0.12	ND	ND	-	µg/m ³
1,2,4-Trichlorobenzene	EPA Methods TO-15,1999	0.02	0.15	0.20	1.48	-	µg/m ³

REMARK :
¹ Notification of Pollution Control Department B.E. 2552 (2009) (24 hours)
² Notification of The National Environmental Board B.E. 2560 (2017)
³ Sampling by Eastern Thai Consulting 1992 Co., Ltd. (Measurement By Mr. Tummarut Photankhum)
 Analyzed by Secot Co., Ltd.



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Examined By

02/09/2024

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Request No. LA67-R0848

Report No. R6708-4473

TEST REPORT

CUSTOMER : GC Polyols Company Limited
 ADDRESS : Noen Phra Sub-district, Mueang Rayong District, Rayong 21150
 SAMPLE SOURCE : GCP Plant
 SAMPLE POINT : วัดมาบชลุค
 SAMPLING DATE : 05-06/08/2024
 RECEIVED DATE : 09/08/2024

SAMPLE NO. : 29864
 REPORTED DATE : 02/09/2024

PARAMETER	TEST METHOD	NON DETECTION		RESULT		STANDARD ^{1/}	UNIT
		ppbv	µg/m ³	ppbv	µg/m ³		
VOCs ^{3/} (24 hours)							
Difluorochloromethane	EPA Methods TO-15,1999	0.04	0.14	0.54	1.91	-	µg/m ³
Propene	EPA Methods TO-15,1999	0.10	0.17	1.14	1.96	-	µg/m ³
Dichlorodifluoromethane	EPA Methods TO-15,1999	0.02	0.10	0.77	3.81	-	µg/m ³
Chloromethane	EPA Methods TO-15,1999	0.04	0.08	1.55	3.20	-	µg/m ³
1,2-Dichlorotetrafluoroethane	EPA Methods TO-15,1999	0.02	0.14	ND	ND	-	µg/m ³
Acetaldehyde	EPA Methods TO-15,1999	0.20	0.36	1.43	2.57	860	µg/m ³
Chloroethane	EPA Methods TO-15,1999	0.003	0.008	ND	ND	20	µg/m ³
2-Methyl-1-propene	EPA Methods TO-15,1999	0.10	0.23	1.20	2.75	-	µg/m ³
1,3-Butadiene	EPA Methods TO-15,1999	0.003	0.007	ND	ND	5.3	µg/m ³
Bromomethane	EPA Methods TO-15,1999	0.004	0.016	ND	ND	190	µg/m ³
Ethyl Chloride	EPA Methods TO-15,1999	0.10	0.26	ND	ND	-	µg/m ³
Ethanol	EPA Methods TO-15,1999	0.20	0.38	2.30	4.34	-	µg/m ³
Trichlorofluoromethane	EPA Methods TO-15,1999	0.02	0.11	0.36	2.02	-	µg/m ³
Acetonitrile	EPA Methods TO-15,1999	0.20	0.34	ND	ND	-	µg/m ³
Acrolein	EPA Methods TO-15,1999	0.005	0.011	ND	ND	0.55	µg/m ³
Acetone	EPA Methods TO-15,1999	0.10	0.24	9.55	22.69	-	µg/m ³
Propanal	EPA Methods TO-15,1999	0.04	0.10	ND	ND	-	µg/m ³
Isopropyl alcohol	EPA Methods TO-15,1999	0.04	0.12	ND	ND	-	µg/m ³
Pentane	EPA Methods TO-15,1999	0.04	0.12	ND	ND	-	µg/m ³
2-Methyl-1,3-butadiene	EPA Methods TO-15,1999	0.04	0.11	0.77	2.14	-	µg/m ³
1,1-Dichloroethene	EPA Methods TO-15,1999	0.04	0.16	ND	ND	-	µg/m ³
Acrylonitrile	EPA Methods TO-15,1999	0.005	0.011	0.07	0.15	10	µg/m ³
1,1,2-Trichloro-1,2,2-Trifluoroethane	EPA Methods TO-15,1999	0.02	0.15	0.06	0.46	-	µg/m ³
Iodomethane	EPA Methods TO-15,1999	0.02	0.12	ND	ND	-	µg/m ³
Dichloromethane	EPA Methods TO-15,1999	0.007	0.024	0.45	1.56	210	µg/m ³
Carbon disulfide	EPA Methods TO-15,1999	0.002	0.006	0.02	0.06	100 ^{2/}	µg/m ³
1-Propanol	EPA Methods TO-15,1999	1.00	2.46	ND	ND	-	µg/m ³
2-Methoxy-2-methylpropane	EPA Methods TO-15,1999	0.02	0.07	ND	ND	-	µg/m ³
trans-1,2-Dichloroethene	EPA Methods TO-15,1999	0.02	0.07	ND	ND	-	µg/m ³

REMARK : ^{1/} Notification of Pollution Control Department B.E. 2552 (2009) (24 hours)^{2/} Notification of The National Environmental Board B.E. 2560 (2017)^{3/} Sampling by Eastern Thai Consulting 1992 Co., Ltd. (Measurement By Mr. Tummarut Photankhum)
Analyzed by Secot Co., Ltd.

Examined By

(MS. [REDACTED])

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

02/09/2024

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY
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Request No. LA67-R0848

Report No. R6708-4473

TEST REPORT

CUSTOMER : GC Polyols Company Limited
ADDRESS : Noen Phra Sub-district, Mueang Rayong District, Rayong 21150
SAMPLE SOURCE : GCP Plant
SAMPLE POINT : วัดมาบหลุก
SAMPLING DATE : 05-06/08/2024
RECEIVED DATE : 09/08/2024

SAMPLE NO. : 29864
REPORTED DATE : 02/09/2024

PARAMETER	TEST METHOD	NON DETECTION		RESULT		STANDARD ^{/1}	UNIT
		ppbv	µg/m ³	ppbv	µg/m ³		
VOCs ^{/3} (24 hours)							
Methacrolein	EPA Methods TO-15,1999	0.10	0.29	ND	ND	-	µg/m ³
Cyclopentane	EPA Methods TO-15,1999	0.04	0.11	ND	ND	-	µg/m ³
Acetic acid ethenyl ester	EPA Methods TO-15,1999	0.04	0.16	ND	ND	-	µg/m ³
1,1-Dichloroethane	EPA Methods TO-15,1999	0.04	0.16	ND	ND	-	µg/m ³
Methyl vinyl ketone	EPA Methods TO-15,1999	0.10	0.29	ND	ND	-	µg/m ³
Butanal	EPA Methods TO-15,1999	0.10	0.29	0.18	0.53	-	µg/m ³
2-Butanone	EPA Methods TO-15,1999	0.10	0.29	0.52	1.53	-	µg/m ³
Hexane	EPA Methods TO-15,1999	0.04	0.14	0.20	0.71	-	µg/m ³
cis-1,2-Dichloroethene	EPA Methods TO-15,1999	0.04	0.16	ND	ND	-	µg/m ³
Trichloromethane	EPA Methods TO-15,1999	0.005	0.024	0.08	0.39	57	µg/m ³
1,1,1-Trichloroethane	EPA Methods TO-15,1999	0.04	0.22	ND	ND	-	µg/m ³
1,2-Dichloroethane	EPA Methods TO-15,1999	0.003	0.012	0.02	0.08	48	µg/m ³
1-Butanol	EPA Methods TO-15,1999	0.20	0.61	1.76	5.33	-	µg/m ³
Benzene	EPA Methods TO-15,1999	0.004	0.013	0.20	0.64	7.6	µg/m ³
Carbon tetrachloride	EPA Methods TO-15,1999	0.004	0.025	0.15	0.94	150	µg/m ³
Cyclohexane	EPA Methods TO-15,1999	0.02	0.07	1.68	5.79	-	µg/m ³
2-Pentanone	EPA Methods TO-15,1999	0.04	0.14	0.13	0.46	-	µg/m ³
3-Pentanone	EPA Methods TO-15,1999	0.04	0.14	ND	ND	-	µg/m ³
Pentanal	EPA Methods TO-15,1999	0.20	0.70	ND	ND	-	µg/m ³
Trichloroethylene	EPA Methods TO-15,1999	0.006	0.032	ND	ND	130	µg/m ³
1,2-Dichloropropane	EPA Methods TO-15,1999	0.007	0.032	ND	ND	82	µg/m ³
1,4-Dioxane	EPA Methods TO-15,1999	0.10	0.36	ND	ND	860	µg/m ³
Bromodichloromethane	EPA Methods TO-15,1999	0.02	0.13	ND	ND	-	µg/m ³
Methyl isobutyl ketone	EPA Methods TO-15,1999	0.10	0.41	ND	ND	-	µg/m ³
cis-1,3-Dichloro-1-Propene	EPA Methods TO-15,1999	0.04	0.18	ND	ND	-	µg/m ³
trans-1,3-Dichloro-1-Propene	EPA Methods TO-15,1999	0.10	0.45	ND	ND	-	µg/m ³
Toluene	EPA Methods TO-15,1999	0.02	0.08	0.69	2.60	-	µg/m ³
1,1,2-Trichloroethane	EPA Methods TO-15,1999	0.02	0.11	ND	ND	-	µg/m ³
3-Hexanone	EPA Methods TO-15,1999	0.10	0.41	ND	ND	-	µg/m ³

REMARK :

^{/1} Notification of Pollution Control Department B.E. 2552 (2009) (24 hours)^{/2} Notification of The National Environmental Board B.E. 2560 (2017)^{/3} Sampling by Eastern Thai Consulting 1992 Co., Ltd. (Measurement By Mr. Tummarut Photankhum)
Analyzed by Secot Co., Ltd.

Examined By

(MS. T

02/09/2024

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด
REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY
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Request No. LA67-R0848

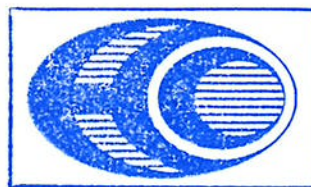
Report No. R6708-4473

TEST REPORT

CUSTOMER : GC Polyols Company Limited
ADDRESS : Noen Phra Sub-district, Mueang Rayong District, Rayong 21150
SAMPLE SOURCE : GCP Plant
SAMPLE POINT : วัดมาบชลุค
SAMPLING DATE : 05-06/08/2024
RECEIVED DATE : 09/08/2024
SAMPLE NO. : 29864
REPORTED DATE : 02/09/2024

PARAMETER	TEST METHOD	NON DETECTION		RESULT		STANDARD ^{1/}	UNIT
		ppbv	µg/m ³	ppbv	µg/m ³		
VOCs ^{3/} (24 hours)							
2-Hexanone	EPA Methods TO-15,1999	0.04	0.16	ND	ND	-	µg/m ³
Hexanal	EPA Methods TO-15,1999	0.20	0.82	ND	ND	-	µg/m ³
Dibromochloromethane	EPA Methods TO-15,1999	0.02	0.17	ND	ND	-	µg/m ³
Tetrachloroethylene	EPA Methods TO-15,1999	0.006	0.041	ND	ND	400	µg/m ³
1,2-Dibromoethane	EPA Methods TO-15,1999	0.006	0.046	ND	ND	370	µg/m ³
Chlorobenzene	EPA Methods TO-15,1999	0.02	0.09	0.04	0.18	-	µg/m ³
Ethylbenzene	EPA Methods TO-15,1999	0.02	0.09	0.11	0.48	-	µg/m ³
m,p-Xylene	EPA Methods TO-15,1999	0.04	0.17	0.25	1.09	-	µg/m ³
Styrene	EPA Methods TO-15,1999	0.02	0.09	0.04	0.17	-	µg/m ³
o-Xylene	EPA Methods TO-15,1999	0.02	0.09	0.06	0.26	-	µg/m ³
Tribromomethane	EPA Methods TO-15,1999	0.02	0.21	ND	ND	-	µg/m ³
1,1,2,2-Tetrachloroethane	EPA Methods TO-15,1999	0.010	0.069	ND	ND	83	µg/m ³
1,3,5-Trimethylbenzene	EPA Methods TO-15,1999	0.02	0.10	0.02	0.10	-	µg/m ³
1,2,4-Trimethylbenzene	EPA Methods TO-15,1999	0.02	0.10	0.10	0.49	-	µg/m ³
1,3-Dichlorobenzene	EPA Methods TO-15,1999	0.02	0.12	0.02	0.12	-	µg/m ³
Benzyl Chloride	EPA Methods TO-15,1999	0.008	0.041	ND	ND	12	µg/m ³
1,4-Dichlorobenzene	EPA Methods TO-15,1999	0.008	0.048	<0.04	<0.24	1100	µg/m ³
1,2,3-Trimethylbenzene	EPA Methods TO-15,1999	0.02	0.10	0.04	0.20	-	µg/m ³
1,2-Dichlorobenzene	EPA Methods TO-15,1999	0.02	0.12	ND	ND	-	µg/m ³
1,2,4-Trichlorobenzene	EPA Methods TO-15,1999	0.02	0.15	0.07	0.52	-	µg/m ³

REMARK :
^{1/} Notification of Pollution Control Department B.E. 2552 (2009) (24 hours)
^{2/} Notification of The National Environmental Board B.E. 2560 (2017)
^{3/} Sampling by Eastern Thai Consulting 1992 Co., Ltd. (Measurement By Mr. Tummarut Photankhum)
Analyzed by Secot Co., Ltd.



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

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Examined By

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02/09/2024

Request No. LA67-R0848

Report No. R6708-4474

TEST REPORT

CUSTOMER : GC Polyols Company Limited
 ADDRESS : Noen Phra Sub-district, Mueang Rayong District, Rayong 21150
 SAMPLE SOURCE : GCP Plant
 SAMPLE POINT : วัดมาบชลูด
 SAMPLING DATE : 06-07/08/2024
 RECEIVED DATE : 09/08/2024
 SAMPLE NO. : 29865
 REPORTED DATE : 02/09/2024

PARAMETER	TEST METHOD	NON DETECTION		RESULT		STANDARD ^{1/}	UNIT
		ppbv	µg/m ³	ppbv	µg/m ³		
VOCs ^{3/} (24 hours)							
Difluorochloromethane	EPA Methods TO-15,1999	0.04	0.14	0.64	2.26	-	µg/m ³
Propene	EPA Methods TO-15,1999	0.10	0.17	ND	ND	-	µg/m ³
Dichlorodifluoromethane	EPA Methods TO-15,1999	0.02	0.10	0.71	3.51	-	µg/m ³
Chloromethane	EPA Methods TO-15,1999	0.04	0.08	1.29	2.66	-	µg/m ³
1,2-Dichlorotetrafluoroethane	EPA Methods TO-15,1999	0.02	0.14	ND	ND	-	µg/m ³
Acetaldehyde	EPA Methods TO-15,1999	0.20	0.36	2.18	3.92	860	µg/m ³
Chloroethane	EPA Methods TO-15,1999	0.003	0.008	ND	ND	20	µg/m ³
2-Methyl-1-propene	EPA Methods TO-15,1999	0.10	0.23	ND	ND	-	µg/m ³
1,3-Butadiene	EPA Methods TO-15,1999	0.003	0.007	ND	ND	5.3	µg/m ³
Bromomethane	EPA Methods TO-15,1999	0.004	0.016	ND	ND	190	µg/m ³
Ethyl Chloride	EPA Methods TO-15,1999	0.10	0.26	ND	ND	-	µg/m ³
Ethanol	EPA Methods TO-15,1999	0.20	0.38	1.90	3.58	-	µg/m ³
Trichlorofluoromethane	EPA Methods TO-15,1999	0.02	0.11	0.40	2.25	-	µg/m ³
Acetonitrile	EPA Methods TO-15,1999	0.20	0.34	ND	ND	-	µg/m ³
Acrolein	EPA Methods TO-15,1999	0.005	0.011	ND	ND	0.55	µg/m ³
Acetone	EPA Methods TO-15,1999	0.10	0.24	10.02	23.81	-	µg/m ³
Propanal	EPA Methods TO-15,1999	0.04	0.10	ND	ND	-	µg/m ³
Isopropyl alcohol	EPA Methods TO-15,1999	0.04	0.12	ND	ND	-	µg/m ³
Pentane	EPA Methods TO-15,1999	0.04	0.12	0.41	1.21	-	µg/m ³
2-Methyl-1,3-butadiene	EPA Methods TO-15,1999	0.04	0.11	0.55	1.53	-	µg/m ³
1,1-Dichloroethene	EPA Methods TO-15,1999	0.04	0.16	ND	ND	-	µg/m ³
Acrylonitrile	EPA Methods TO-15,1999	0.005	0.011	ND	ND	10	µg/m ³
1,1,2-Trichloro-1,2,2-Trifluoroethane	EPA Methods TO-15,1999	0.02	0.15	ND	ND	-	µg/m ³
Iodomethane	EPA Methods TO-15,1999	0.02	0.12	ND	ND	-	µg/m ³
Dichloromethane	EPA Methods TO-15,1999	0.007	0.024	0.85	2.95	210	µg/m ³
Carbon disulfide	EPA Methods TO-15,1999	0.002	0.006	0.08	0.25	100 ^{2/}	µg/m ³
1-Propanol	EPA Methods TO-15,1999	1.00	2.46	ND	ND	-	µg/m ³
2-Methoxy-2-methylpropane	EPA Methods TO-15,1999	0.02	0.07	ND	ND	-	µg/m ³
trans-1,2-Dichloroethene	EPA Methods TO-15,1999	0.02	0.07	ND	ND	-	µg/m ³

REMARK : ^{1/} Notification of Pollution Control Department B.E. 2552 (2009) (24 hours)^{2/} Notification of The National Environmental Board B.E. 2560 (2017)^{3/} Sampling by Eastern Thai Consulting 1992 Co., Ltd. (Measurement By Mr. Tummarut Photankhum)
Analyzed by Secot Co., Ltd.

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Examined By

(MS)

02/09/2024

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Request No. LA67-R0848

Report No. R6708-4474

TEST REPORT

CUSTOMER : GC Polyols Company Limited
ADDRESS : Noen Phra Sub-district, Mueang Rayong District, Rayong 21150
SAMPLE SOURCE : GCP Plant
SAMPLE POINT : วัดมาบขลุค
SAMPLING DATE : 06-07/08/2024
RECEIVED DATE : 09/08/2024
SAMPLE NO. : 29865
REPORTED DATE : 02/09/2024

PARAMETER	TEST METHOD	NON DETECTION		RESULT		STANDARD ^{1/}	UNIT
		ppbv	µg/m ³	ppbv	µg/m ³		
VOCs ^{3/} (24 hours)							
Methacrolein	EPA Methods TO-15,1999	0.10	0.29	ND	ND	-	µg/m ³
Cyclopentane	EPA Methods TO-15,1999	0.04	0.11	ND	ND	-	µg/m ³
Acetic acid ethenyl ester	EPA Methods TO-15,1999	0.04	0.16	ND	ND	-	µg/m ³
1,1-Dichloroethane	EPA Methods TO-15,1999	0.04	0.16	ND	ND	-	µg/m ³
Methyl vinyl ketone	EPA Methods TO-15,1999	0.10	0.29	ND	ND	-	µg/m ³
Butanal	EPA Methods TO-15,1999	0.10	0.29	0.31	0.91	-	µg/m ³
2-Butanone	EPA Methods TO-15,1999	0.10	0.29	0.44	1.30	-	µg/m ³
Hexane	EPA Methods TO-15,1999	0.04	0.14	ND	ND	-	µg/m ³
cis-1,2-Dichloroethene	EPA Methods TO-15,1999	0.04	0.16	ND	ND	-	µg/m ³
Trichloromethane	EPA Methods TO-15,1999	0.005	0.024	0.06	0.29	57	µg/m ³
1,1,1-Trichloroethane	EPA Methods TO-15,1999	0.04	0.22	ND	ND	-	µg/m ³
1,2-Dichloroethane	EPA Methods TO-15,1999	0.003	0.012	ND	ND	48	µg/m ³
1-Butanol	EPA Methods TO-15,1999	0.20	0.61	ND	ND	-	µg/m ³
Benzene	EPA Methods TO-15,1999	0.004	0.013	0.15	0.48	7.6	µg/m ³
Carbon tetrachloride	EPA Methods TO-15,1999	0.004	0.025	0.15	0.94	150	µg/m ³
Cyclohexane	EPA Methods TO-15,1999	0.02	0.07	1.99	6.85	-	µg/m ³
2-Pentanone	EPA Methods TO-15,1999	0.04	0.14	0.11	0.39	-	µg/m ³
3-Pentanone	EPA Methods TO-15,1999	0.04	0.14	ND	ND	-	µg/m ³
Pentanal	EPA Methods TO-15,1999	0.20	0.70	ND	ND	-	µg/m ³
Trichloroethylene	EPA Methods TO-15,1999	0.006	0.032	ND	ND	130	µg/m ³
1,2-Dichloropropane	EPA Methods TO-15,1999	0.007	0.032	ND	ND	82	µg/m ³
1,4-Dioxane	EPA Methods TO-15,1999	0.10	0.36	ND	ND	860	µg/m ³
Bromodichloromethane	EPA Methods TO-15,1999	0.02	0.13	ND	ND	-	µg/m ³
Methyl isobutyl ketone	EPA Methods TO-15,1999	0.10	0.41	0.16	0.66	-	µg/m ³
cis-1,3-Dichloro-1-Propene	EPA Methods TO-15,1999	0.04	0.18	ND	ND	-	µg/m ³
trans-1,3-Dichloro-1-Propene	EPA Methods TO-15,1999	0.10	0.45	ND	ND	-	µg/m ³
Toluene	EPA Methods TO-15,1999	0.02	0.08	0.99	3.73	-	µg/m ³
1,1,2-Trichloroethane	EPA Methods TO-15,1999	0.02	0.11	ND	ND	-	µg/m ³
3-Hexanone	EPA Methods TO-15,1999	0.10	0.41	ND	ND	-	µg/m ³

REMARK : ^{1/} Notification of Pollution Control Department B.E. 2552 (2009) (24 hours)^{2/} Notification of The National Environmental Board B.E. 2560 (2017)^{3/} Sampling by Eastern Thai Consulting 1992 Co., Ltd. (Measurement By Mr. Tummarut Photankhum)
Analyzed by Secot Co., Ltd.

Examined By

(MS. [Redacted])

02/09/2024

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

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Request No. LA67-R0848

Report No. R6708-4474

TEST REPORT

CUSTOMER : GC Polyols Company Limited
ADDRESS : Noen Phra Sub-district, Mueang Rayong District, Rayong 21150
SAMPLE SOURCE : GCP Plant
SAMPLE POINT : วัดมาบชลุค
SAMPLING DATE : 06-07/08/2024
RECEIVED DATE : 09/08/2024
SAMPLE NO. : 29865
REPORTED DATE : 02/09/2024

PARAMETER	TEST METHOD	NON DETECTION		RESULT		STANDARD ^{/1}	UNIT
		ppbv	µg/m ³	ppbv	µg/m ³		
VOCs ^{/3} (24 hours)							
2-Hexanone	EPA Methods TO-15,1999	0.04	0.16	ND	ND	-	µg/m ³
Hexanal	EPA Methods TO-15,1999	0.20	0.82	ND	ND	-	µg/m ³
Dibromochloromethane	EPA Methods TO-15,1999	0.02	0.17	ND	ND	-	µg/m ³
Tetrachloroethylene	EPA Methods TO-15,1999	0.006	0.041	<0.04	<0.27	400	µg/m ³
1,2-Dibromoethane	EPA Methods TO-15,1999	0.006	0.046	ND	ND	370	µg/m ³
Chlorobenzene	EPA Methods TO-15,1999	0.02	0.09	0.02	0.09	-	µg/m ³
Ethylbenzene	EPA Methods TO-15,1999	0.02	0.09	0.19	0.83	-	µg/m ³
m,p-Xylene	EPA Methods TO-15,1999	0.04	0.17	0.27	1.17	-	µg/m ³
Styrene	EPA Methods TO-15,1999	0.02	0.09	0.04	0.17	-	µg/m ³
o-Xylene	EPA Methods TO-15,1999	0.02	0.09	0.08	0.35	-	µg/m ³
Tribromomethane	EPA Methods TO-15,1999	0.02	0.21	ND	ND	-	µg/m ³
1,1,2,2-Tetrachloroethane	EPA Methods TO-15,1999	0.010	0.069	<0.10	<0.69	83	µg/m ³
1,3,5-Trimethylbenzene	EPA Methods TO-15,1999	0.02	0.10	0.02	0.10	-	µg/m ³
1,2,4-Trimethylbenzene	EPA Methods TO-15,1999	0.02	0.10	0.08	0.39	-	µg/m ³
1,3-Dichlorobenzene	EPA Methods TO-15,1999	0.02	0.12	ND	ND	-	µg/m ³
Benzyl Chloride	EPA Methods TO-15,1999	0.008	0.041	ND	ND	12	µg/m ³
1,4-Dichlorobenzene	EPA Methods TO-15,1999	0.008	0.048	ND	ND	1100	µg/m ³
1,2,3-Trimethylbenzene	EPA Methods TO-15,1999	0.02	0.10	0.04	0.20	-	µg/m ³
1,2-Dichlorobenzene	EPA Methods TO-15,1999	0.02	0.12	ND	ND	-	µg/m ³
1,2,4-Trichlorobenzene	EPA Methods TO-15,1999	0.02	0.15	ND	ND	-	µg/m ³

REMARK :
^{/1} Notification of Pollution Control Department B.E. 2552 (2009) (24 hours)
^{/2} Notification of The National Environmental Board B.E. 2560 (2017)
^{/3} Sampling by Eastern Thai Consulting 1992 Co., Ltd. (Measurement By Mr. Tummarut Photankhum)
 Analyzed by Secot Co., Ltd.



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Examined By

02/09/2024

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Request No. LA67-R0848

Report No. R6708-4475

TEST REPORT

CUSTOMER : GC Polyols Company Limited
ADDRESS : Noen Phra Sub-district, Mueang Rayong District, Rayong 21150
SAMPLE SOURCE : GCP Plant
SAMPLE POINT : วัดมาบชลูด
SAMPLING DATE : 07-08/08/2024
RECEIVED DATE : 09/08/2024
SAMPLE NO. : 29866
REPORTED DATE : 02/09/2024

PARAMETER	TEST METHOD	NON DETECTION		RESULT		STANDARD ^{1/}	UNIT
		ppbv	µg/m ³	ppbv	µg/m ³		
VOCs ^{3/} (24 hours)							
Difluorochloromethane	EPA Methods TO-15,1999	0.04	0.14	0.39	1.38	-	µg/m ³
Propene	EPA Methods TO-15,1999	0.10	0.17	ND	ND	-	µg/m ³
Dichlorodifluoromethane	EPA Methods TO-15,1999	0.02	0.10	0.77	3.81	-	µg/m ³
Chloromethane	EPA Methods TO-15,1999	0.04	0.08	1.22	2.52	-	µg/m ³
1,2-Dichlorotetrafluoroethane	EPA Methods TO-15,1999	0.02	0.14	ND	ND	-	µg/m ³
Acetaldehyde	EPA Methods TO-15,1999	0.20	0.36	0.80	1.44	860	µg/m ³
Chloroethane	EPA Methods TO-15,1999	0.003	0.008	ND	ND	20	µg/m ³
2-Methyl-1-propene	EPA Methods TO-15,1999	0.10	0.23	ND	ND	-	µg/m ³
1,3-Butadiene	EPA Methods TO-15,1999	0.003	0.007	ND	ND	5.3	µg/m ³
Bromomethane	EPA Methods TO-15,1999	0.004	0.016	ND	ND	190	µg/m ³
Ethyl Chloride	EPA Methods TO-15,1999	0.10	0.26	ND	ND	-	µg/m ³
Ethanol	EPA Methods TO-15,1999	0.20	0.38	ND	ND	-	µg/m ³
Trichlorofluoromethane	EPA Methods TO-15,1999	0.02	0.11	0.40	2.25	-	µg/m ³
Acetonitrile	EPA Methods TO-15,1999	0.20	0.34	ND	ND	-	µg/m ³
Acrolein	EPA Methods TO-15,1999	0.005	0.011	ND	ND	0.55	µg/m ³
Acetone	EPA Methods TO-15,1999	0.10	0.24	9.45	22.46	-	µg/m ³
Propanal	EPA Methods TO-15,1999	0.04	0.10	ND	ND	-	µg/m ³
Isopropyl alcohol	EPA Methods TO-15,1999	0.04	0.12	ND	ND	-	µg/m ³
Pentane	EPA Methods TO-15,1999	0.04	0.12	ND	ND	-	µg/m ³
2-Methyl-1,3-butadiene	EPA Methods TO-15,1999	0.04	0.11	0.73	2.03	-	µg/m ³
1,1-Dichloroethene	EPA Methods TO-15,1999	0.04	0.16	ND	ND	-	µg/m ³
Acrylonitrile	EPA Methods TO-15,1999	0.005	0.011	ND	ND	10	µg/m ³
1,1,2-Trichloro-1,2,2-Trifluoroethane	EPA Methods TO-15,1999	0.02	0.15	0.09	0.69	-	µg/m ³
Iodomethane	EPA Methods TO-15,1999	0.02	0.12	ND	ND	-	µg/m ³
Dichloromethane	EPA Methods TO-15,1999	0.007	0.024	0.64	2.22	210	µg/m ³
Carbon disulfide	EPA Methods TO-15,1999	0.002	0.006	0.04	0.12	100 ^{2/}	µg/m ³
1-Propanol	EPA Methods TO-15,1999	1.00	2.46	ND	ND	-	µg/m ³
2-Methoxy-2-methylpropane	EPA Methods TO-15,1999	0.02	0.07	ND	ND	-	µg/m ³
trans-1,2-Dichloroethene	EPA Methods TO-15,1999	0.02	0.07	ND	ND	-	µg/m ³

REMARK : ^{1/} Notification of Pollution Control Department B.E. 2552 (2009) (24 hours)^{2/} Notification of The National Environmental Board B.E. 2560 (2017)^{3/} Sampling by Eastern Thai Consulting 1992 Co., Ltd. Measurement By Mr. Tummarut Photankhun
Analyzed by Secot Co., Ltd.

Examined By

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02/09/2024

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด
REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY
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Request No. LA67-R0848

Report No. R6708-4475

TEST REPORT

CUSTOMER : GC Polyols Company Limited
ADDRESS : Noen Phra Sub-district, Mueang Rayong District, Rayong 21150
SAMPLE SOURCE : GCP Plant
SAMPLE POINT : วัดมาบชลุค
SAMPLING DATE : 07-08/08/2024
RECEIVED DATE : 09/08/2024
SAMPLE NO. : 29866
REPORTED DATE : 02/09/2024

PARAMETER	TEST METHOD	NON DETECTION		RESULT		STANDARD ^{1/}	UNIT
		ppbv	µg/m ³	ppbv	µg/m ³		
VOCs ^{3/} (24 hours)							
Methacrolein	EPA Methods TO-15,1999	0.10	0.29	ND	ND	-	µg/m ³
Cyclopentane	EPA Methods TO-15,1999	0.04	0.11	ND	ND	-	µg/m ³
Acetic acid ethenyl ester	EPA Methods TO-15,1999	0.04	0.16	ND	ND	-	µg/m ³
1,1-Dichloroethane	EPA Methods TO-15,1999	0.04	0.16	ND	ND	-	µg/m ³
Methyl vinyl ketone	EPA Methods TO-15,1999	0.10	0.29	ND	ND	-	µg/m ³
Butanal	EPA Methods TO-15,1999	0.10	0.29	ND	ND	-	µg/m ³
2-Butanone	EPA Methods TO-15,1999	0.10	0.29	0.17	0.50	-	µg/m ³
Hexane	EPA Methods TO-15,1999	0.04	0.14	0.13	0.46	-	µg/m ³
cis-1,2-Dichloroethene	EPA Methods TO-15,1999	0.04	0.16	ND	ND	-	µg/m ³
Trichloromethane	EPA Methods TO-15,1999	0.005	0.024	0.12	0.59	57	µg/m ³
1,1,1-Trichloroethane	EPA Methods TO-15,1999	0.04	0.22	ND	ND	-	µg/m ³
1,2-Dichloroethane	EPA Methods TO-15,1999	0.003	0.012	ND	ND	48	µg/m ³
1-Butanol	EPA Methods TO-15,1999	0.20	0.61	ND	ND	-	µg/m ³
Benzene	EPA Methods TO-15,1999	0.004	0.013	0.11	0.35	7.6	µg/m ³
Carbon tetrachloride	EPA Methods TO-15,1999	0.004	0.025	0.15	0.94	150	µg/m ³
Cyclohexane	EPA Methods TO-15,1999	0.02	0.07	2.92	10.06	-	µg/m ³
2-Pentanone	EPA Methods TO-15,1999	0.04	0.14	0.04	0.14	-	µg/m ³
3-Pentanone	EPA Methods TO-15,1999	0.04	0.14	ND	ND	-	µg/m ³
Pentanal	EPA Methods TO-15,1999	0.20	0.70	ND	ND	-	µg/m ³
Trichloroethylene	EPA Methods TO-15,1999	0.006	0.032	ND	ND	130	µg/m ³
1,2-Dichloropropane	EPA Methods TO-15,1999	0.007	0.032	ND	ND	82	µg/m ³
1,4-Dioxane	EPA Methods TO-15,1999	0.10	0.36	ND	ND	860	µg/m ³
Bromodichloromethane	EPA Methods TO-15,1999	0.02	0.13	ND	ND	-	µg/m ³
Methyl isobutyl ketone	EPA Methods TO-15,1999	0.10	0.41	ND	ND	-	µg/m ³
cis-1,3-Dichloro-1-Propene	EPA Methods TO-15,1999	0.04	0.18	ND	ND	-	µg/m ³
trans-1,3-Dichloro-1-Propene	EPA Methods TO-15,1999	0.10	0.45	ND	ND	-	µg/m ³
Toluene	EPA Methods TO-15,1999	0.02	0.08	0.39	1.47	-	µg/m ³
1,1,2-Trichloroethane	EPA Methods TO-15,1999	0.02	0.11	ND	ND	-	µg/m ³
3-Hexanone	EPA Methods TO-15,1999	0.10	0.41	ND	ND	-	µg/m ³

REMARK : ^{1/} Notification of Pollution Control Department B.E. 2552 (2009) (24 hours)^{2/} Notification of The National Environmental Board B.E. 2560 (2017)^{3/} Sampling by Eastern Thai Consulting 1992 Co., Ltd. (Measurement By Mr. Tummarut Photankhum)

Analyzed by Secot Co., Ltd.



Examined By

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บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

02/09/2024

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY

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Request No. LA67-R0848

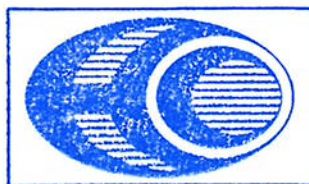
Report No. R6708-4475

TEST REPORT

CUSTOMER : GC Polyols Company Limited
ADDRESS : Noen Phra Sub-district, Mueang Rayong District, Rayong 21150
SAMPLE SOURCE : GCP Plant
SAMPLE POINT : วัดมาบชลูด
SAMPLING DATE : 07-08/08/2024
RECEIVED DATE : 09/08/2024
SAMPLE NO. : 29866
REPORTED DATE : 02/09/2024

PARAMETER	TEST METHOD	NON DETECTION		RESULT		STANDARD ^{/1}	UNIT
		ppbv	µg/m ³	ppbv	µg/m ³		
VOCs ^{/3} (24 hours)							
2-Hexanone	EPA Methods TO-15,1999	0.04	0.16	ND	ND	-	µg/m ³
Hexanal	EPA Methods TO-15,1999	0.20	0.82	ND	ND	-	µg/m ³
Dibromochloromethane	EPA Methods TO-15,1999	0.02	0.17	ND	ND	-	µg/m ³
Tetrachloroethylene	EPA Methods TO-15,1999	0.006	0.041	ND	ND	400	µg/m ³
1,2-Dibromoethane	EPA Methods TO-15,1999	0.006	0.046	ND	ND	370	µg/m ³
Chlorobenzene	EPA Methods TO-15,1999	0.02	0.09	0.04	0.18	-	µg/m ³
Ethylbenzene	EPA Methods TO-15,1999	0.02	0.09	0.08	0.35	-	µg/m ³
m,p-Xylene	EPA Methods TO-15,1999	0.04	0.17	0.23	1.00	-	µg/m ³
Styrene	EPA Methods TO-15,1999	0.02	0.09	0.02	0.09	-	µg/m ³
o-Xylene	EPA Methods TO-15,1999	0.02	0.09	0.04	0.17	-	µg/m ³
Tribromomethane	EPA Methods TO-15,1999	0.02	0.21	ND	ND	-	µg/m ³
1,1,2,2-Tetrachloroethane	EPA Methods TO-15,1999	0.010	0.069	ND	ND	83	µg/m ³
1,3,5-Trimethylbenzene	EPA Methods TO-15,1999	0.02	0.10	ND	ND	-	µg/m ³
1,2,4-Trimethylbenzene	EPA Methods TO-15,1999	0.02	0.10	0.04	0.20	-	µg/m ³
1,3-Dichlorobenzene	EPA Methods TO-15,1999	0.02	0.12	ND	ND	-	µg/m ³
Benzyl Chloride	EPA Methods TO-15,1999	0.008	0.041	ND	ND	12	µg/m ³
1,4-Dichlorobenzene	EPA Methods TO-15,1999	0.008	0.048	ND	ND	1100	µg/m ³
1,2,3-Trimethylbenzene	EPA Methods TO-15,1999	0.02	0.10	0.02	0.10	-	µg/m ³
1,2-Dichlorobenzene	EPA Methods TO-15,1999	0.02	0.12	ND	ND	-	µg/m ³
1,2,4-Trichlorobenzene	EPA Methods TO-15,1999	0.02	0.15	0.02	0.15	-	µg/m ³

REMARK :
^{/1} Notification of Pollution Control Department B.E. 2552 (2009) (24 hours)
^{/2} Notification of The National Environmental Board B.E. 2560 (2017)
^{/3} Sampling by Eastern Thai Consulting 1992 Co., Ltd. (Measurement By Mr. Tummarut Photankhum)
 Analyzed by Secot Co., Ltd.



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY
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Examined By

02/09/2024

Request No. LA67-R0848

Report No. R6708-4476

TEST REPORT

CUSTOMER : GC Polyols Company Limited
ADDRESS : Noen Phra Sub-district, Mueang Rayong District, Rayong 21150
SAMPLE SOURCE : GCP Plant
SAMPLE POINT : วัดมาบชลุค
SAMPLING DATE : 08-09/08/2024
RECEIVED DATE : 09/08/2024
SAMPLE NO. : 29867
REPORTED DATE : 02/09/2024

PARAMETER	TEST METHOD	NON DETECTION		RESULT		STANDARD ¹	UNIT
		ppbv	µg/m ³	ppbv	µg/m ³		
VOCs ³ (24 hours)							
Difluorochloromethane	EPA Methods TO-15,1999	0.04	0.14	0.45	1.59	-	µg/m ³
Propene	EPA Methods TO-15,1999	0.10	0.17	ND	ND	-	µg/m ³
Dichlorodifluoromethane	EPA Methods TO-15,1999	0.02	0.10	0.77	3.81	-	µg/m ³
Chloromethane	EPA Methods TO-15,1999	0.04	0.08	1.12	2.31	-	µg/m ³
1,2-Dichlorotetrafluoroethane	EPA Methods TO-15,1999	0.02	0.14	ND	ND	-	µg/m ³
Acetaldehyde	EPA Methods TO-15,1999	0.20	0.36	1.17	2.11	860	µg/m ³
Chloroethane	EPA Methods TO-15,1999	0.003	0.008	ND	ND	20	µg/m ³
2-Methyl-1-propene	EPA Methods TO-15,1999	0.10	0.23	0.17	0.39	-	µg/m ³
1,3-Butadiene	EPA Methods TO-15,1999	0.003	0.007	ND	ND	5.3	µg/m ³
Bromomethane	EPA Methods TO-15,1999	0.004	0.016	ND	ND	190	µg/m ³
Ethyl Chloride	EPA Methods TO-15,1999	0.10	0.26	ND	ND	-	µg/m ³
Ethanol	EPA Methods TO-15,1999	0.20	0.38	2.28	4.30	-	µg/m ³
Trichlorofluoromethane	EPA Methods TO-15,1999	0.02	0.11	0.38	2.14	-	µg/m ³
Acetonitrile	EPA Methods TO-15,1999	0.20	0.34	ND	ND	-	µg/m ³
Acrolein	EPA Methods TO-15,1999	0.005	0.011	ND	ND	0.55	µg/m ³
Acetone	EPA Methods TO-15,1999	0.10	0.24	5.84	13.88	-	µg/m ³
Propanal	EPA Methods TO-15,1999	0.04	0.10	ND	ND	-	µg/m ³
Isopropyl alcohol	EPA Methods TO-15,1999	0.04	0.12	ND	ND	-	µg/m ³
Pentane	EPA Methods TO-15,1999	0.04	0.12	ND	ND	-	µg/m ³
2-Methyl-1,3-butadiene	EPA Methods TO-15,1999	0.04	0.11	0.66	1.84	-	µg/m ³
1,1-Dichloroethene	EPA Methods TO-15,1999	0.04	0.16	ND	ND	-	µg/m ³
Acrylonitrile	EPA Methods TO-15,1999	0.005	0.011	0.07	0.15	10	µg/m ³
1,1,2-Trichloro-1,2,2-Trifluoroethane	EPA Methods TO-15,1999	0.02	0.15	0.09	0.69	-	µg/m ³
Iodomethane	EPA Methods TO-15,1999	0.02	0.12	ND	ND	-	µg/m ³
Dichloromethane	EPA Methods TO-15,1999	0.007	0.024	0.76	2.64	210	µg/m ³
Carbon disulfide	EPA Methods TO-15,1999	0.002	0.006	0.06	0.19	100 ²	µg/m ³
1-Propanol	EPA Methods TO-15,1999	1.00	2.46	ND	ND	-	µg/m ³
2-Methoxy-2-methylpropane	EPA Methods TO-15,1999	0.02	0.07	ND	ND	-	µg/m ³
trans-1,2-Dichloroethene	EPA Methods TO-15,1999	0.02	0.07	ND	ND	-	µg/m ³

REMARK : ¹ Notification of Pollution Control Department B.E. 2552 (2009) (24 hours)² Notification of The National Environmental Board B.E. 2560 (2017)³ Sampling by Eastern Thai Consulting 1992 Co., Ltd. (Measurement By Mr. Tummarut Photankhum)
Analyzed by Secot Co., Ltd.

Examined By

02/09/2024

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด
REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY
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Request No. LA67-R0848

Report No. R6708-4476

TEST REPORT

CUSTOMER : GC Polyols Company Limited
ADDRESS : Noen Phra Sub-district, Mueang Rayong District, Rayong 21150
SAMPLE SOURCE : GCP Plant
SAMPLE POINT : วัดมาบขลุ่ด
SAMPLING DATE : 08-09/08/2024
RECEIVED DATE : 09/08/2024
SAMPLE NO. : 29867
REPORTED DATE : 02/09/2024

PARAMETER	TEST METHOD	NON DETECTION		RESULT		STANDARD ¹	UNIT
		ppbv	µg/m ³	ppbv	µg/m ³		
VOCs ^{1/3} (24 hours)							
Methacrolein	EPA Methods TO-15,1999	0.10	0.29	ND	ND	-	µg/m ³
Cyclopentane	EPA Methods TO-15,1999	0.04	0.11	ND	ND	-	µg/m ³
Acetic acid ethenyl ester	EPA Methods TO-15,1999	0.04	0.16	ND	ND	-	µg/m ³
1,1-Dichloroethane	EPA Methods TO-15,1999	0.04	0.16	ND	ND	-	µg/m ³
Methyl vinyl ketone	EPA Methods TO-15,1999	0.10	0.29	ND	ND	-	µg/m ³
Butanal	EPA Methods TO-15,1999	0.10	0.29	0.24	0.71	-	µg/m ³
2-Butanone	EPA Methods TO-15,1999	0.10	0.29	0.41	1.21	-	µg/m ³
Hexane	EPA Methods TO-15,1999	0.04	0.14	0.15	0.53	-	µg/m ³
cis-1,2-Dichloroethene	EPA Methods TO-15,1999	0.04	0.16	ND	ND	-	µg/m ³
Trichloromethane	EPA Methods TO-15,1999	0.005	0.024	0.06	0.29	57	µg/m ³
1,1,1-Trichloroethane	EPA Methods TO-15,1999	0.04	0.22	ND	ND	-	µg/m ³
1,2-Dichloroethane	EPA Methods TO-15,1999	0.003	0.012	0.02	0.08	48	µg/m ³
1-Butanol	EPA Methods TO-15,1999	0.20	0.61	ND	ND	-	µg/m ³
Benzene	EPA Methods TO-15,1999	0.004	0.013	0.24	0.77	7.6	µg/m ³
Carbon tetrachloride	EPA Methods TO-15,1999	0.004	0.025	0.17	1.07	150	µg/m ³
Cyclohexane	EPA Methods TO-15,1999	0.02	0.07	5.14	17.70	-	µg/m ³
2-Pentanone	EPA Methods TO-15,1999	0.04	0.14	0.11	0.39	-	µg/m ³
3-Pentanone	EPA Methods TO-15,1999	0.04	0.14	ND	ND	-	µg/m ³
Pentanal	EPA Methods TO-15,1999	0.20	0.70	ND	ND	-	µg/m ³
Trichloroethylene	EPA Methods TO-15,1999	0.006	0.032	ND	ND	130	µg/m ³
1,2-Dichloropropane	EPA Methods TO-15,1999	0.007	0.032	ND	ND	82	µg/m ³
1,4-Dioxane	EPA Methods TO-15,1999	0.10	0.36	ND	ND	860	µg/m ³
Bromodichloromethane	EPA Methods TO-15,1999	0.02	0.13	ND	ND	-	µg/m ³
Methyl isobutyl ketone	EPA Methods TO-15,1999	0.10	0.41	ND	ND	-	µg/m ³
cis-1,3-Dichloro-1-Propene	EPA Methods TO-15,1999	0.04	0.18	ND	ND	-	µg/m ³
trans-1,3-Dichloro-1-Propene	EPA Methods TO-15,1999	0.10	0.45	ND	ND	-	µg/m ³
Toluene	EPA Methods TO-15,1999	0.02	0.08	0.60	2.26	-	µg/m ³
1,1,2-Trichloroethane	EPA Methods TO-15,1999	0.02	0.11	ND	ND	-	µg/m ³
3-Hexanone	EPA Methods TO-15,1999	0.10	0.41	ND	ND	-	µg/m ³

REMARK : ^{1/} Notification of Pollution Control Department B.E. 2552 (2009) (24 hours)^{1/2} Notification of The National Environmental Board B.E. 2560 (2017)^{1/3} Sampling by Eastern Thai Consulting 1992 Co., Ltd. (Measurement By Mr. Tummarut Photankhum)
Analyzed by Secot Co., Ltd.

Examined by

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

02/09/2024

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY
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Request No. LA67-R0848

Report No. R6708-4476

TEST REPORT

CUSTOMER : GC Polyols Company Limited
ADDRESS : Noen Phra Sub-district, Mueang Rayong District, Rayong 21150
SAMPLE SOURCE : GCP Plant
SAMPLE POINT : วัดมาบชลุค
SAMPLING DATE : 08-09/08/2024
RECEIVED DATE : 09/08/2024

SAMPLE NO. : 29867
REPORTED DATE : 02/09/2024

PARAMETER	TEST METHOD	NON DETECTION		RESULT		STANDARD ^{/1}	UNIT
		ppbv	µg/m ³	ppbv	µg/m ³		
VOCs ^{/3} (24 hours)							
2-Hexanone	EPA Methods TO-15,1999	0.04	0.16	ND	ND	-	µg/m ³
Hexanal	EPA Methods TO-15,1999	0.20	0.82	ND	ND	-	µg/m ³
Dibromochloromethane	EPA Methods TO-15,1999	0.02	0.17	ND	ND	-	µg/m ³
Tetrachloroethylene	EPA Methods TO-15,1999	0.006	0.041	ND	ND	400	µg/m ³
1,2-Dibromoethane	EPA Methods TO-15,1999	0.006	0.046	ND	ND	370	µg/m ³
Chlorobenzene	EPA Methods TO-15,1999	0.02	0.09	0.06	0.28	-	µg/m ³
Ethylbenzene	EPA Methods TO-15,1999	0.02	0.09	0.15	0.65	-	µg/m ³
m,p-Xylene	EPA Methods TO-15,1999	0.04	0.17	0.27	1.17	-	µg/m ³
Styrene	EPA Methods TO-15,1999	0.02	0.09	0.06	0.26	-	µg/m ³
o-Xylene	EPA Methods TO-15,1999	0.02	0.09	0.06	0.26	-	µg/m ³
Tribromomethane	EPA Methods TO-15,1999	0.02	0.21	ND	ND	-	µg/m ³
1,1,2,2-Tetrachloroethane	EPA Methods TO-15,1999	0.010	0.069	ND	ND	83	µg/m ³
1,3,5-Trimethylbenzene	EPA Methods TO-15,1999	0.02	0.10	ND	ND	-	µg/m ³
1,2,4-Trimethylbenzene	EPA Methods TO-15,1999	0.02	0.10	0.04	0.20	-	µg/m ³
1,3-Dichlorobenzene	EPA Methods TO-15,1999	0.02	0.12	0.02	0.12	-	µg/m ³
Benzyl Chloride	EPA Methods TO-15,1999	0.008	0.041	ND	ND	12	µg/m ³
1,4-Dichlorobenzene	EPA Methods TO-15,1999	0.008	0.048	<0.04	<0.24	1100	µg/m ³
1,2,3-Trimethylbenzene	EPA Methods TO-15,1999	0.02	0.10	0.02	0.10	-	µg/m ³
1,2-Dichlorobenzene	EPA Methods TO-15,1999	0.02	0.12	ND	ND	-	µg/m ³
1,2,4-Trichlorobenzene	EPA Methods TO-15,1999	0.02	0.15	0.11	0.82	-	µg/m ³

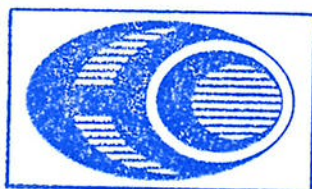
REMARK :

^{/1} Notification of Pollution Control Department B.E. 2552 (2009) (24 hours)

^{/2} Notification of The National Environmental Board B.E. 2560 (2017)

^{/3} Sampling by Eastern Thai Consulting 1992 Co., Ltd. (Measurement By Mr. Tummarut Photankhum)

Analyzed by Secot Co., Ltd.



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Examined By

02/09/2024

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WITHOUT THE WRITTEN APPROVAL LABORATORY

Wind Speed & Wind Direction

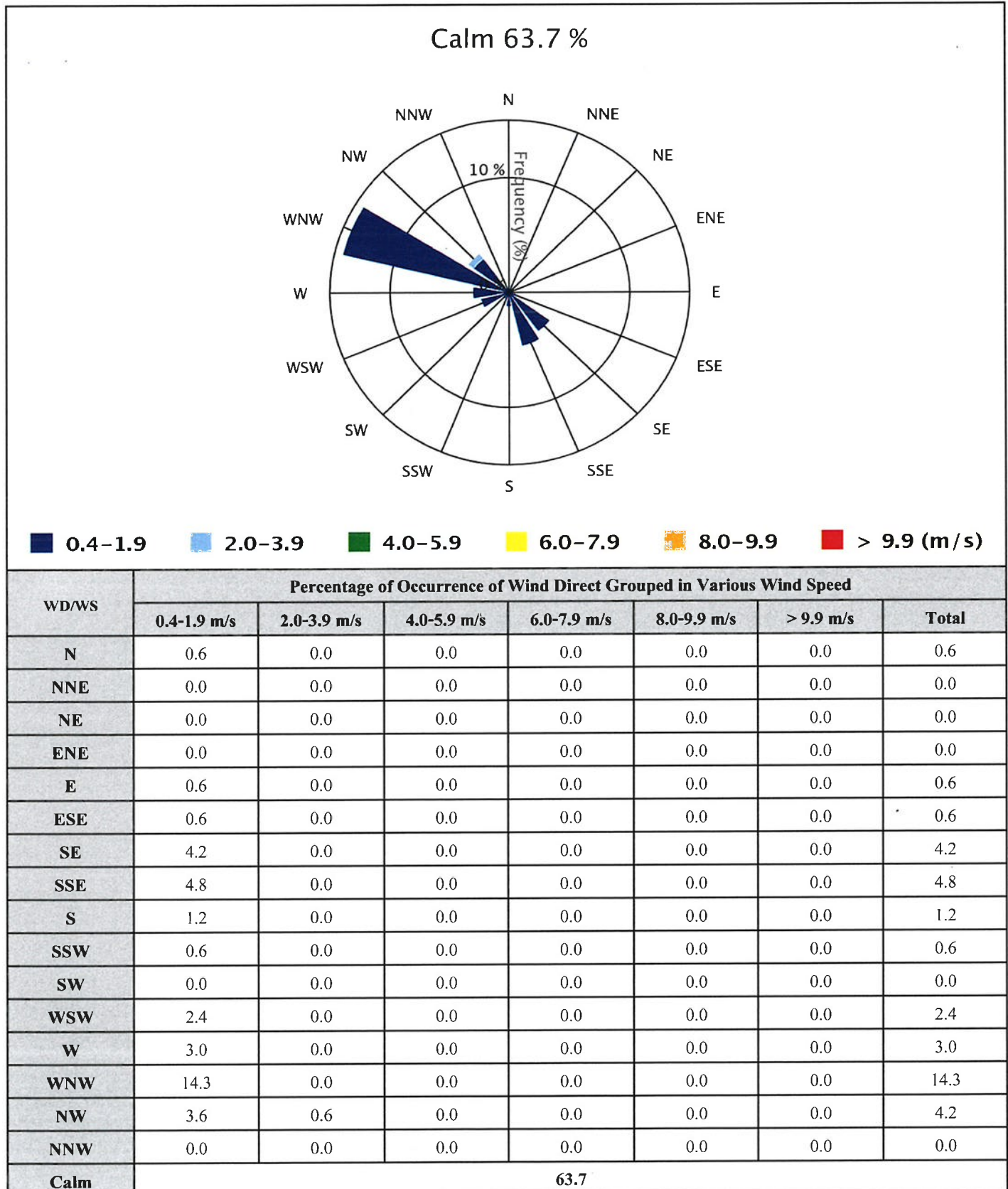
Request No. LA67-R0848

GC Polyols Company Limited (GCP Plant)

Sample No. 29882

Sampling Source : วัดมาบชูด

Sampling Date : August 2-9, 2024





Wind Speed & Wind Direction

Request No. LA67-R0848

GC Polyols Company Limited (GCP Plant)

Sample No. 29882

Sampling Source : วัดมาบขลุ่ย

Sampling Date : August 2-9, 2024

Time	August 2-3, 2024		August 3-4, 2024		August 4-5, 2024		August 5-6, 2024		August 6-7, 2024		August 7-8, 2024		August 8-9, 2024	
	Wind Speed (m/s)	Wind Direction	Wind Speed (m/s)	Wind Direction	Wind Speed (m/s)	Wind Direction	Wind Speed (m/s)	Wind Direction	Wind Speed (m/s)	Wind Direction	Wind Speed (m/s)	Wind Direction	Wind Speed (m/s)	Wind Direction
10:00-11:00	0.0	-	0.0	-	0.4	E	0.0	-	0.4	NW	0.0	-	0.4	WNW
11:00-12:00	0.4	WNW	0.0	-	0.0	-	0.0	-	0.0	-	0.0	-	0.0	-
12:00-13:00	0.4	WNW	0.0	-	0.0	-	0.4	WNW	0.0	-	0.4	WNW	0.0	-
13:00-14:00	0.9	WNW	0.4	NW	0.0	-	0.9	SE	0.4	N	0.4	WNW	0.0	-
14:00-15:00	0.4	SSE	0.0	-	0.0	-	0.9	SSE	0.9	SE	1.8	WNW	0.4	NW
15:00-16:00	0.4	SSE	1.8	SE	0.9	SE	1.3	WNW	1.3	WSW	0.4	W	0.0	-
16:00-17:00	0.0	-	1.3	WNW	0.4	WNW	0.0	-	0.9	W	0.9	WNW	0.0	-
17:00-18:00	0.4	WNW	0.4	SE	0.4	WNW	0.4	WNW	0.4	W	0.0	-	0.0	-
18:00-19:00	0.4	WNW	0.9	SE	0.9	S	0.4	NW	0.0	-	0.0	-	0.0	-
19:00-20:00	0.0	-	0.9	SSE	0.4	SSE	0.0	-	0.0	-	0.0	-	0.0	-
20:00-21:00	0.0	-	0.4	SSE	0.4	SE	0.0	-	0.0	-	0.0	-	0.0	-
21:00-22:00	0.9	ESE	0.0	-	0.4	SSW	0.0	-	0.4	NW	0.0	-	0.0	-
22:00-23:00	0.4	S	0.9	SSE	0.0	-	0.0	-	0.0	-	0.0	-	0.0	-
23:00-00:00	0.9	WNW	0.4	SSE	0.0	-	0.4	WNW	0.0	-	0.0	-	0.0	-
00:00-01:00	0.0	-	2.2	NW	0.0	-	0.4	W	0.0	-	0.0	-	0.9	WNW
01:00-02:00	0.0	-	0.0	-	0.0	-	0.4	WNW	0.0	-	0.0	-	0.4	NW
02:00-03:00	0.0	-	0.0	-	0.0	-	0.0	-	0.0	-	0.0	-	0.0	-
03:00-04:00	0.4	WNW	0.0	-	0.0	-	0.0	-	0.0	-	0.4	WSW	0.0	-
04:00-05:00	0.0	-	0.0	-	0.0	-	0.0	-	0.0	-	1.3	WSW	0.0	-
05:00-06:00	0.9	W	0.0	-	0.0	-	0.0	-	0.0	-	0.9	WNW	0.0	-
06:00-07:00	0.4	WNW	0.0	-	0.0	-	0.0	-	0.0	-	0.0	-	0.0	-
07:00-08:00	0.0	-	0.0	-	0.0	-	0.0	-	0.0	-	0.0	-	0.4	WNW
08:00-09:00	0.0	-	0.0	-	0.0	-	0.0	-	0.0	-	0.0	-	0.4	WSW
09:00-10:00	0.0	-	0.0	-	0.0	-	0.0	-	0.0	-	0.0	-	0.0	-

Request No. LA67-0811

Report No. 6708-0337

TEST REPORT

CUSTOMER : GC Polyols Company Limited.

ADDRESS : Noen Phra Sub-district, Mueang Rayong District, Rayong 21150

SAMPLE SOURCE : GCP Plant

SAMPLE POINT : ปล่องของระบบ TO

SAMPLE NO. : 02969

SAMPLING DATE : 08/08/2024

SAMPLING TIME : 09:55-10:00

RECEIVED DATE : 13/08/2024

REPORTED DATE : 20/08/2024

TESTED DATE : 13-15/08/2024

STACK DESCRIPTION[®]

Height : 60.00 m

Type of Process : Combustion

Diameter : 0.70 m

Type of Fuel : Natural Gas

Temperature : 604.60 °C

Oxygen Content : 5.48 %

Air Velocity : 3.28 m/s

Barometric Pressure : 754.75 mmHg

Flow rate² : 0.20 m³/s

Atmospheric Temperature : 34.40 °C

Moisture Content : - %

PARAMETER	TEST METHOD	TIME	RESULT ²		STD ¹	UNIT
			5.48 % O ₂	7 % O ₂		
Oxides of Nitrogen	Absorption, Phenoldisulfonic	09:55-10:00	67.2	60.6	376, 301 ³	mg/m ³
(NO _x as NO ₂)	Acid (U.S. EPA Method 7)		35.7	32.2	200, 160 ³	ppm
			0.013 [@]	-	0.367 ³	g/s

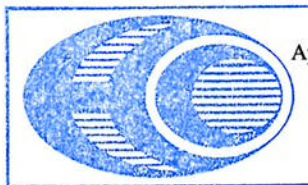
REMARK:

- ¹ Notification of The Ministry of Industry B.E. 2549 (2006)
- ² Standard Condition (Temperature 25°C, Pressure 760 mmHg) and Dry Basis
- ³ ค่ากำหนดตามรายงานการประเมินผลกระทบสิ่งแวดล้อม (EIA)
- [@] These Data Outside The Scope of The Registration of The Department of Industrial Works.
- GPS = Sampling at UTM 47P 731294E 1405399N
- Sampling By Mr. Metee Sukprasert (ว-003-ค-0035)

Examined By

(ว-003-ค-0007)

20/08/2024



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By

(ว-003-ค-0012)

20/08/2024

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

Request No. LA67-0811

Report No. 6708-0338

TEST REPORT

CUSTOMER : GC Polyols Company Limited.

ADDRESS : Noen Phra Sub-district, Mueang Rayong District, Rayong 21150

SAMPLE SOURCE : GCP Plant

SAMPLE POINT : ปล่องของระบบ TO

SAMPLE NO. : 02970

SAMPLING DATE : 08/08/2024

SAMPLING TIME : 09:45-10:15

RECEIVED DATE : 13/08/2024

REPORTED DATE : 20/08/2024

TESTED DATE : 13-14/08/2024

STACK DESCRIPTION[®]

Height :	60.00	m	Type of Process :	Combustion
Diameter :	0.70	m	Type of Fuel :	Natural Gas
Temperature :	604.60	°C	Oxygen Content :	5.48 %
Air Velocity :	3.28	m/s	Barometric Pressure :	754.75 mmHg
Flow rate ² :	0.20	m ³ /s	Atmospheric Temperature :	34.40 °C
Moisture Content :	-	%		

PARAMETER	TEST METHOD	TIME	RESULT ²		STD ¹	UNIT
			5.48 % O ₂	7 % O ₂		
Carbon monoxide	Non-Dispersive Infrared	09:45-10:15	1.1	1.0	790	mg/m ³
(CO)	(U.S. EPA Method 10)		1.0	0.9	690	ppm
			0.0002 [@]	-	-	g/s

REMARK:

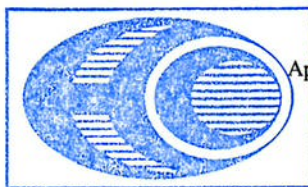
- ¹ Notification of The Ministry of Industry B.E. 2549 (2006)
- ² Standard Condition (Temperature 25°C, Pressure 760 mmHg) and Dry Basis
- [@] These Data Outside The Scope of The Registration of The Department of Industrial Works.
- GPS = Sampling at UTM 47P 731294E 1405399N
- Sampling By Mr. Metee Sukprasert (จ-003-ค-0035)

Examined By.



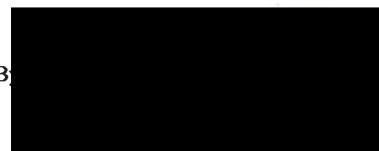
(จ-003-ค-0007)

20/08/2024



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By.



(จ-003-ค-0012)

20/08/2024

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

Request No. LA67-0811

Report No. 6708-0339

TEST REPORT

CUSTOMER : GC Polyols Company Limited.
ADDRESS : Noen Phra Sub-district, Mueang Rayong District, Rayong 21150
SAMPLE SOURCE : GCP Plant
SAMPLE POINT : ปล่อง VOCs Wet Scrubber
SAMPLE NO. : 02971
SAMPLING DATE : 08/08/2024
SAMPLING TIME : 10:30-11:00
RECEIVED DATE : 13/08/2024
REPORTED DATE : 20/08/2024
TESTED DATE : 13-19/08/2024

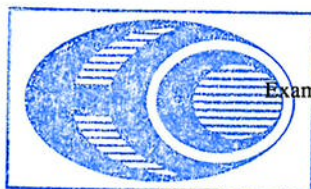
STACK DESCRIPTION

Height :	18.50	m	Type of Process :	Exhaust
Diameter :	0.15	m	Type of Fuel :	-
Temperature :	34.90	°C	Oxygen Content :	20.90 %
Air Velocity :	4.54	m/s	Barometric Pressure :	754.75 mmHg
Flow rate ² :	0.07	m ³ /s	Atmospheric Temperature :	34.20 °C
Moisture Content :	-	%		

PARAMETER	TEST METHOD	TIME	RESULT ²	STD ¹	UNIT
Propylene Oxide ³	U.S.EPA Method 18 / GC FID	10:30-11:00	0.51	4	mg/m ³
			0.21	1.69	ppm
			0.00004	0.0005	g/s

REMARK:

- ¹ คำกำหนดตามรายงานการประเมินผลกระทบสิ่งแวดล้อม (EIA)
- ² Standard Condition (Temperature 25°C, Pressure 760 mmHg) and Dry Basis
- ³ Sampling by Eastern Thai Consulting 1992 Co.,Ltd. (Mr. Metee Sukprasert)
Analysed By SECOT Co.,Ltd.
- GPS = Sampling at UTM 47P 731196E 1405256N



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Examined By.

20/08/2024

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY
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Test Report

Request No : W6707093

Report No : 6707-1307

Customer : GC Polyols Company Limited.

Address : Noen Phra Sub-district, Mueang Rayong District, Rayong 21150

Sampling Source : GCP Plant

Sample No : W 67070309

Sample Name : Final Check Basin

Sampling Date : 03/07/2024

Sampling By : ETC

Sampling Time : 9:10 AM

Sampling Method : Grab

Received Date : 04/07/2024

Tested Date : 04/07/2024 - 10/07/2024

Reported Date : 20/07/2024

Parameter	Unit	Method	Result	Standard/ ¹
Biochemical Oxygen Demand	mg/L	5-Day BOD Test, Membrane Electrode Method (SM:5210B)	< 2.0	≤500
Chemical Oxygen Demand	mg/L	Closed Reflux, Titrimetric Method (SM:5220C)	< 40	≤750
Oil and Grease	mg/L	Liquid-Liquid, Partition-Gravimetric Method (SM:5520B)	< 3.0	≤10
pH (on site)		Electrometric Method	7.7	5.5 - 9
Temperature	°C	Laboratory and Field Method (SM:2550 B)	31	≤45
Total Dissolved Solids	mg/L	Dried at 180 degree celsius (SM:2540C)	598	≤3000
Total Suspended Solids	mg/L	Dried at 103-105 degree celsius (SM:2540D)	< 5	≤200

Physical Apperance : 1. Sample : lightly SS

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

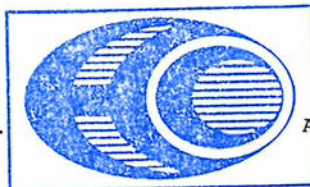
Remark : 1. /1 Eastern Industrial Estate (Map ta Phut) , Maximum levels for Wastewater Discharging to Central Wastewater Treatment Plant

2. SM = Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 24th Edition, 2023.

3. GPS = Sampling at UTM 47 P 731277E 1405406N

4. Sampling By Mr. Songpon Phiwan (ว-003-ก-0016)

Examined By

(ว-003-ก-0007)
20/07/2024

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved

(ว-003-ก-0005)
20/07/2024

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

Test Report

Request No : W6707093

Report No : 6707-1308

Customer : GC Polyols Company Limited.

Address : Noen Phra Sub-district, Mueang Rayong District, Rayong 21150

Sampling Source : GCP Plant

Sample No : W 67070310

Sample Name : Cooling Water Blowdown Hold Sump

Sampling Date : 03/07/2024

Sampling By : ETC

Sampling Time : 9:00 AM

Sampling Method : Grab

Received Date : 04/07/2024

Tested Date : 04/07/2024 - 18/07/2024

Reported Date : 20/07/2024

Parameter	Unit	Method	Result	Standard/ ¹
Biochemical Oxygen Demand	mg/L	5-Day BOD Test, Membrane Electrode Method (SM:5210B)	< 2.0	≤500
Chemical Oxygen Demand	mg/L	Closed Reflux, Titrimetric Method (SM:5220C)	< 40	≤750
Oil and Grease	mg/L	Liquid-Liquid, Partition-Gravimetric Method (SM:5520B)	< 3.0	≤10
pH (on site)		Electrometric Method	7.0	5.5 - 9
Temperature	°C	Laboratory and Field Method (SM:2550 B)	29	≤45
Total Dissolved Solids	mg/L	Dried at 180 degree celsius (SM:2540C)	608	≤3000
Total Suspended Solids	mg/L	Dried at 103-105 degree celsius (SM:2540D)	5	≤200

Physical Apperance : 1. Sample : lightly SS

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

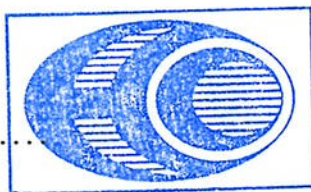
Remark : 1. /1 Eastern Industrial Estate (Map ta Phut) , Maximum levels for Wastewater Discharging to Central Wastewater Treatment Plant

2. SM = Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 24th Edition, 2023.

3. GPS = Sampling at UTM 47 P 731257E 1405411N

4. Sampling By Mr. Songpon Phiwan (ว-003-ค-0016)

Examined By

(ว-003-ค-0007)
20/07/2024

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By

(ว-003-ค-0005)
20/07/2024REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY
THIS REPORT SHALL NOT REPRODUCED EXCEPT IN FULL
WITHOUT THE WRITTEN APPROVAL LABORATORY

Test Report

Request No : W6707093

Report No : 6707-1308

Customer : GC Polyols Company Limited.

Address : Noen Phra Sub-district, Mueang Rayong District, Rayong 21150

Sampling Source : GCP Plant

Sample No : W 67070310

Sample Name : Cooling Water Blowdown Hold Sump

Sampling Date : 03/07/2024

Sampling By : ETC

Sampling Time : 9:00 AM

Sampling Method : Grab

Received Date : 04/07/2024

Tested Date : 04/07/2024 - 18/07/2024

Reported Date : 20/07/2024

Parameter	Unit	Method	Result	Standard ¹
Total Organic Carbon (TOC) #	ppm	Combustion Infrared	12.08	-

Physical Apperance : 1. Sample : lightly SS

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

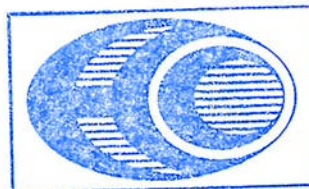
Remark : 1. /1 Eastern Industrial Estate (Map ta Phut) , Maximum levels for Wastewater Discharging to Central Wastewater Treatment Plant

2. # Tested by the office of Public Health and Environmental Technology Services Faculty of Public Health Mahidol University

3. GPS = Sampling at UTM 47 P 731257E 1405411N

4. Sampling By Mr. Songpon Phiwuan

5. ppm = mg/L



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Examined By

20/07/2024

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY
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Test Report

Request No : W6708232

Report No : 6708-0929

Customer : GC Polyols Company Limited.

Address : Noen Phra Sub-district, Mueang Rayong District, Rayong 21150

Sampling Source : GCP Plant

Sample No : W 67080715

Sample Name : Final Check Basin

Sampling Date : 07/08/2024

Sampling By : ETC

Sampling Time : 8:50 AM

Sampling Method : Grab

Received Date : 08/08/2024

Tested Date : 08/08/2024 - 16/08/2024

Reported Date : 19/08/2024

Parameter	Unit	Method	Result	Standard ¹
Biochemical Oxygen Demand	mg/L	5-Day BOD Test, Membrane Electrode Method (SM:5210B)	8.1	≤500
Chemical Oxygen Demand	mg/L	Closed Reflux, Titrimetric Method (SM:5220C)	41	≤750
Oil and Grease	mg/L	Liquid-Liquid, Partition-Gravimetric Method (SM:5520B)	< 3.0	≤10
pH (on site)		Electrometric Method	7.7	5.5 - 9
Temperature	°C	Laboratory and Field Method (SM:2550 B)	32	≤45
Total Dissolved Solids	mg/L	Dried at 180 degree celsius (SM:2540C)	326	≤3000
Total Suspended Solids	mg/L	Dried at 103-105 degree celsius (SM:2540D)	10	≤200

Physical Apperance : 1. Sample : yellow, lightly SS

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

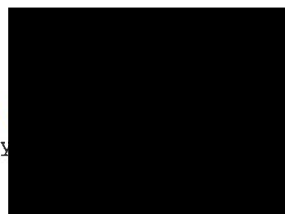
Remark : 1. /1 Eastern Industrial Estate (Map ta Phut) , Maximum levels for Wastewater Discharging to Central Wastewater Treatment Plant

2. SM = Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 24th Edition, 2023.

3. GPS = Sampling at UTM 47 P 731277E 1405406N

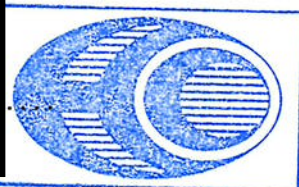
4. Sampling By Mr. Supharerk Phatklang (ว-003-ค-0031)

Examined By



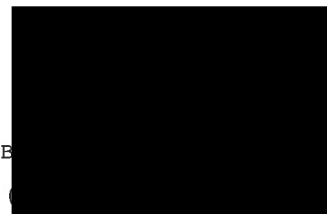
(ว-003-ค-0007)

19/08/2024



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By



(ว-003-ค-0005)

19/08/2024

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

Test Report

Request No : W6708232

Report No : 6708-0930

Customer : GC Polyols Company Limited.

Address : Noen Phra Sub-district, Mueang Rayong District, Rayong 21150

Sampling Source : GCP Plant

Sample No : W 67080716

Sample Name : Cooling Water Blowdown Hold Sump

Sampling Date : 07/08/2024

Sampling By : ETC

Sampling Time : 8:45 AM

Sampling Method : Grab

Received Date : 08/08/2024

Tested Date : 08/08/2024 - 16/08/2024

Reported Date : 19/08/2024

Parameter	Unit	Method	Result	Standard ¹
Biochemical Oxygen Demand	mg/L	5-Day BOD Test, Membrane Electrode Method (SM:5210B)	< 2.0	≤500
Chemical Oxygen Demand	mg/L	Closed Reflux, Titrimetric Method (SM:5220C)	< 40	≤750
Oil and Grease	mg/L	Liquid-Liquid, Partition-Gravimetric Method (SM:5520B)	< 3.0	≤10
pH (on site)		Electrometric Method	7.6	5.5 - 9
Temperature	°C	Laboratory and Field Method (SM:2550 B)	32	≤45
Total Dissolved Solids	mg/L	Dried at 180 degree celsius (SM:2540C)	592	≤3000
Total Suspended Solids	mg/L	Dried at 103-105 degree celsius (SM:2540D)	< 5	≤200

Physical Apperance : 1. Sample : yellow, lightly SS

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

Remark : 1. /1 Eastern Industrial Estate (Map ta Phut) , Maximum levels for Wastewater Discharging to Central Wastewater Treatment Plant

2. SM = Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 24th Edition, 2023.

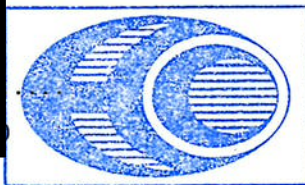
3. GPS = Sampling at UTM 47 P 731257E 1405411N

4. Sampling By Mr. Supharerk Phatklang (จ-003-ก-0031)

Examined By

(จ-003-ก-0007)

19/08/2024



Approved

(จ-003-ก-0005)

19/08/2024

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด
 REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY
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 WITHOUT THE WRITTEN APPROVAL LABORATORY

Test Report

Request No : W6708232

Report No : 6708-0930

Customer : GC Polyols Company Limited.

Address : Noen Phra Sub-district, Mueang Rayong District, Rayong 21150

Sampling Source : GCP Plant

Sample No : W 67080716

Sample Name : Cooling Water Blowdown Hold Sump

Sampling Date : 07/08/2024

Sampling By : ETC

Sampling Time : 8:45 AM

Sampling Method : Grab

Received Date : 08/08/2024

Tested Date : 08/08/2024 - 16/08/2024

Reported Date : 19/08/2024

Parameter	Unit	Method	Result	Standard/ ¹
Total Organic Carbon (TOC) #	ppm	Combustion Infrared	8.51	-

Physical Appearance : 1. Sample : yellow, lightly SS

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

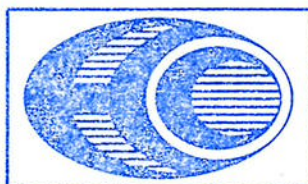
Remark : 1. /1 Eastern Industrial Estate (Map ta Phut) , Maximum levels for Wastewater Discharging to Central Wastewater Treatment Plant

2. # Tested by the office of Public Health and Environmental Technology Services Faculty of Public Health Mahidol University

3. GPS = Sampling at UTM 47 P 731257E 1405411N

4. Sampling By Mr. Supharek Phatklang

5. ppm = mg/L



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Examined By

19/08/2024

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY
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Test Report

Request No : W6709120

Report No : 6709-0757

Customer : GC Polyols Company Limited.

Address : Noen Phra Sub-district, Mueang Rayong District, Rayong 21150

Sampling Source : GCP Plant

Sample No : W 67090492

Sample Name : Final Check Basin

Sampling Date : 04/09/2024

Sampling By : ETC

Sampling Time : 8:50 AM

Sampling Method : Grab

Received Date : 05/09/2024

Tested Date : 05/09/2024 - 11/09/2024

Reported Date : 13/09/2024

Parameter	Unit	Method	Result	Standard ¹
Biochemical Oxygen Demand	mg/L	5-Day BOD Test, Membrane Electrode Method (SM:5210B)	10.5	≤500
Chemical Oxygen Demand	mg/L	Closed Reflux, Titrimetric Method (SM:5220C)	51	≤750
Oil and Grease	mg/L	Liquid-Liquid, Partition-Gravimetric Method (SM:5520B)	< 3.0	≤10
pH (on site)		Electrometric Method	7.0	5.5 - 9
Temperature	°C	Laboratory and Field Method (SM:2550 B)	30	≤45
Total Dissolved Solids	mg/L	Dried at 180 degree celsius (SM:2540C)	217	≤3000
Total Suspended Solids	mg/L	Dried at 103-105 degree celsius (SM:2540D)	19	≤200

Physical Apperance : 1. Sample : yellow, lightly SS

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

Remark : 1. /1 Eastern Industrial Estate (Map ta Phut) , Maximum levels for Wastewater Discharging to Central Wastewater Treatment Plant

2. SM = Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 24th Edition, 2023.

3. GPS = Sampling at UTM 47 P 731277E 1405406N

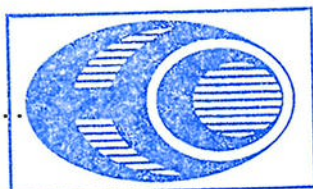
4. Sampling By Mr. Parkpoom Buasawad (จ-003-ค-0017)

Examined By



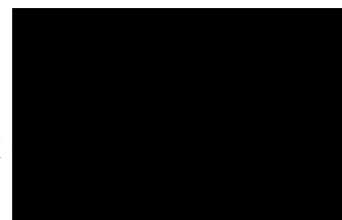
(จ-003-ค-0007)

13/09/2024



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved



(จ-003-ค-0005)

13/09/2024

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY
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Test Report

Request No : W6709120

Report No : 6709-0758

Customer : GC Polyols Company Limited.

Address : Noen Phra Sub-district, Mueang Rayong District, Rayong 21150

Sampling Source : GCP Plant

Sample No : W 67090493

Sample Name : Cooling Water Blowdown Hold Sump

Sampling Date : 04/09/2024

Sampling By : ETC

Sampling Time : 9:00 AM

Sampling Method : Grab

Received Date : 05/09/2024

Tested Date : 05/09/2024 - 11/09/2024

Reported Date : 13/09/2024

Parameter	Unit	Method	Result	Standard ¹
Biochemical Oxygen Demand	mg/L	5-Day BOD Test, Membrane Electrode Method (SM:5210B)	2.0	≤500
Chemical Oxygen Demand	mg/L	Closed Reflux, Titrimetric Method (SM:5220C)	< 40	≤750
Oil and Grease	mg/L	Liquid-Liquid, Partition-Gravimetric Method (SM:5520B)	< 3.0	≤10
pH (on site)		Electrometric Method	7.5	5.5 - 9
Temperature	°C	Laboratory and Field Method (SM:2550 B)	30	≤45
Total Dissolved Solids	mg/L	Dried at 180 degree celsius (SM:2540C)	488	≤3000
Total Suspended Solids	mg/L	Dried at 103-105 degree celsius (SM:2540D)	6	≤200

Physical Apperance : 1. Sample : yellow, lightly SS

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

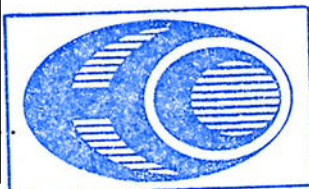
Remark : 1. /I Eastern Industrial Estate (Map ta Phut) , Maximum levels for Wastewater Discharging to Central Wastewater Treatment Plant

2. SM = Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 24th Edition, 2023.

3. GPS = Sampling at UTM 47 P 731257E 1405411N

4. Sampling By Mr. Parkpoom Buasawad (จ-003-ก-0017)

Examined By

(จ-003-ก-0007)
13/09/2024

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By

(จ-003-ก-0005)
13/09/2024

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

Test Report

Request No : W6709120

Report No : 6709-0758

Customer : GC Polyols Company Limited.

Address : Noen Phra Sub-district, Mueang Rayong District, Rayong 21150

Sampling Source : GCP Plant

Sample No : W 67090493

Sample Name : Cooling Water Blowdown Hold Sump

Sampling Date : 04/09/2024

Sampling By : ETC

Sampling Time : 9:00 AM

Sampling Method : Grab

Received Date : 05/09/2024

Tested Date : 05/09/2024 - 11/09/2024

Reported Date : 13/09/2024

Parameter	Unit	Method	Result	Standard ¹
Total Organic Carbon (TOC) #	ppm	Combustion Infrared	7.38	-

Physical Apperance : 1. Sample : yellow, lightly SS

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

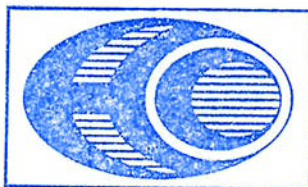
Remark : 1. /1 Eastern Industrial Estate (Map ta Phut) , Maximum levels for Wastewater Discharging to Central Wastewater Treatment Plant

2. # Tested by the office of Public Health and Environmental Technology Services Faculty of Public Health Mahidol University

3. GPS = Sampling at UTM 47 P 731257E 1405411N

4. Sampling By Mr. Parkpoom Buasawad

5. ppm = mg/L



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Examined By

13/09/2024

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

Test Report

Request No : W6710083

Report No : 6710-0759

Customer : GC Polyols Company Limited.

Address : Noen Phra Sub-district, Mueang Rayong District, Rayong 21150

Sampling Source : GCP Plant

Sample No : W 67100288

Sample Name : Final Check Basin

Sampling Date : 02/10/2024

Sampling By : ETC

Sampling Time : 8:55 AM

Sampling Method : Grab

Received Date : 03/10/2024

Tested Date : 03/10/2024 - 10/10/2024

Reported Date : 11/10/2024

Parameter	Unit	Method	Result	Standard/ ¹
Biochemical Oxygen Demand	mg/L	5-Day BOD Test, Membrane Electrode Method (SM:5210B)	3.8	≤500
Chemical Oxygen Demand	mg/L	Closed Reflux, Titrimetric Method (SM:5220C)	69	≤750
Oil and Grease	mg/L	Liquid-Liquid, Partition-Gravimetric Method (SM:5520B)	< 3.0	≤10
pH (on site)		Electrometric Method	7.6	5.5 - 9
Temperature	°C	Laboratory and Field Method (SM:2550 B)	32	≤45
Total Dissolved Solids	mg/L	Dried at 180 degree celsius (SM:2540C)	388	≤3000
Total Suspended Solids	mg/L	Dried at 103-105 degree celsius (SM:2540D)	14	≤200

Physical Apperance : 1. Sample : yellowish, lightly SS

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

Remark : 1. /1 Eastern Industrial Estate (Map ta Phut) , Maximum levels for Wastewater Discharging to Central Wastewater Treatment Plant

2. SM = Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 24th Edition, 2023.

3. GPS = Sampling at UTM 47 P 731277E 1405406N

4. Sampling By Miss Pompinan Viriyakusolkul (ว-003-ก-0036)

Examined By

(ว-003-ก-0007)

11/10/2024



Approved

(ว-003-ก-0005)

11/10/2024

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด
REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY
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Test Report

Request No : W6710083

Report No : 6710-0760

Customer : GC Polyols Company Limited.

Address : Noen Phra Sub-district, Mueang Rayong District, Rayong 21150

Sampling Source : GCP Plant

Sample No : W 67100289

Sample Name : Cooling Water Blowdown Hold Sump

Sampling Date : 02/10/2024

Sampling By : ETC

Sampling Time : 9:05 AM

Sampling Method : Grab

Received Date : 03/10/2024

Tested Date : 03/10/2024 - 10/10/2024

Reported Date : 11/10/2024

Parameter	Unit	Method	Result	Standard/ ¹
Biochemical Oxygen Demand	mg/L	5-Day BOD Test, Membrane Electrode Method (SM:5210B)	< 2.0	≤500
Chemical Oxygen Demand	mg/L	Closed Reflux, Titrimetric Method (SM:5220C)	43	≤750
Oil and Grease	mg/L	Liquid-Liquid, Partition-Gravimetric Method (SM:5520B)	< 3.0	≤10
pH (on site)		Electrometric Method	7.9	5.5 - 9
Temperature	°C	Laboratory and Field Method (SM:2550 B)	32	≤45
Total Dissolved Solids	mg/L	Dried at 180 degree celsius (SM:2540C)	526	≤3000
Total Suspended Solids	mg/L	Dried at 103-105 degree celsius (SM:2540D)	< 5	≤200

Physical Apperance : 1. Sample : lightly SS

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

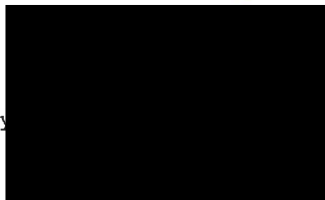
Remark : 1. /1 Eastern Industrial Estate (Map ta Phut) , Maximum levels for Wastewater Discharging to Central Wastewater Treatment Plant

2. SM = Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 24th Edition, 2023.

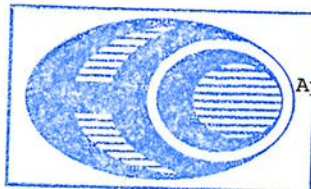
3. GPS = Sampling at UTM 47 P 731257E 1405411N

4. Sampling By Miss Pornpinan Viriyakusolkul (ว-003-ค-0036)

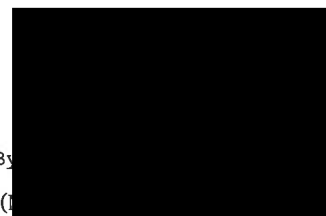
Examined By



11/10/2024



Approved By



(ว-003-ค-0005)

11/10/2024

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Test Report

Request No : W6710083

Report No : 6710-0760

Customer : GC Polyols Company Limited.

Address : Noen Phra Sub-district, Mueang Rayong District, Rayong 21150

Sampling Source : GCP Plant

Sample No : W 67100289

Sample Name : Cooling Water Blowdown Hold Sump

Sampling Date : 02/10/2024

Sampling By : ETC

Sampling Time : 9:05 AM

Sampling Method : Grab

Received Date : 03/10/2024

Tested Date : 03/10/2024 - 10/10/2024

Reported Date : 11/10/2024

Parameter	Unit	Method	Result	Standard ¹
Total Organic Carbon (TOC)	# ppm	Combustion Infrared	7.88	-

Physical Apperance : 1. Sample : lightly SS

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

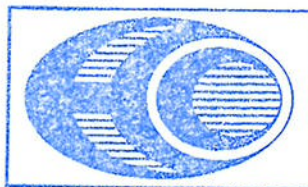
Remark : 1. /1 Eastern Industrial Estate (Map ta Phut) , Maximum levels for Wastewater Discharging to Central Wastewater Treatment Plant

2. # Tested by the office of Public Health and Environmental Technology Services Faculty of Public Health Mahidol University

3. GPS = Sampling at UTM 47 P 731257E 1405411N

4. Sampling By Miss Pornpinan Viriyakusolkul

5. ppm = mg/L



Examined By

11/10/2024

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

Test Report

Request No : W6711189

Report No : 6711-1175

Customer : GC Polyols Company Limited.

Address : Noen Phra Sub-district, Mueang Rayong District, Rayong 21150

Sampling Source : GCP Plant

Sample No : W 67110584

Sample Name : Final Check Basin

Sampling Date : 06/11/2024

Sampling By : ETC

Sampling Time : 8:45 AM

Sampling Method : Grab

Received Date : 07/11/2024

Tested Date : 07/11/2024 - 15/11/2024

Reported Date : 19/11/2024

Parameter	Unit	Method	Result	Standard ¹
Biochemical Oxygen Demand	mg/L	5-Day BOD Test, Membrane Electrode Method (SM:5210B)	11.7	≤500
Chemical Oxygen Demand	mg/L	Closed Reflux, Titrimetric Method (SM:5220C)	101	≤750
Oil and Grease	mg/L	Liquid-Liquid, Partition-Gravimetric Method (SM:5520B)	< 3.0	≤10
pH (on site)		Electrometric Method	6.8	5.5 - 9
Temperature	°C	Laboratory and Field Method (SM:2550 B)	30	≤45
Total Dissolved Solids	mg/L	Dried at 180 degree celsius (SM:2540C)	300	≤3000
Total Suspended Solids	mg/L	Dried at 103-105 degree celsius (SM:2540D)	21	≤200

Physical Apperance : 1. Sample : greenish, lightly SS

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

Remark : 1. /1 Eastern Industrial Estate (Map ta Phut) , Maximum levels for Wastewater Discharging to Central Wastewater Treatment Plant

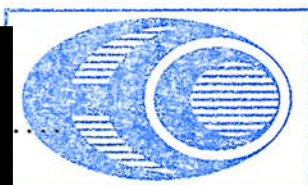
2. SM = Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 24th Edition, 2023.

3. GPS = Sampling at UTM 47 P 731277E 1405406N

4. Sampling By Mr. Supharek Phatklang (จ-003-ค-0031)

Examined By

(N

(จ-003-ค-0007)
19/11/2024

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Approved

(จ-003-ค-0005)
19/11/2024REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY
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Test Report

Request No : W6711189

Report No : 6711-1176

Customer : GC Polyols Company Limited.

Address : Noen Phra Sub-district, Mueang Rayong District, Rayong 21150

Sampling Source : GCP Plant

Sample No : W 67110585

Sample Name : Cooling Water Blowdown Hold Sump

Sampling Date : 06/11/2024

Sampling By : ETC

Sampling Time : 8:50 AM

Sampling Method : Grab

Received Date : 07/11/2024

Tested Date : 07/11/2024 - 19/11/2024

Reported Date : 19/11/2024

Parameter	Unit	Method	Result	Standard ¹
Biochemical Oxygen Demand	mg/L	5-Day BOD Test, Membrane Electrode Method (SM:5210B)	< 2.0	≤500
Chemical Oxygen Demand	mg/L	Closed Reflux, Titrimetric Method (SM:5220C)	< 40	≤750
Oil and Grease	mg/L	Liquid-Liquid, Partition-Gravimetric Method (SM:5520B)	< 3.0	≤10
pH (on site)		Electrometric Method	6.7	5.5 - 9
Temperature	°C	Laboratory and Field Method (SM:2550 B)	31	≤45
Total Dissolved Solids	mg/L	Dried at 180 degree celsius (SM:2540C)	504	≤3000
Total Suspended Solids	mg/L	Dried at 103-105 degree celsius (SM:2540D)	< 5	≤200

Physical Appearance : 1. Sample : lightly SS

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

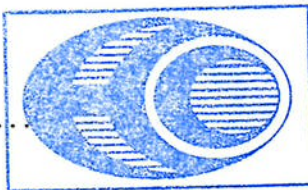
Remark : 1. /1 Eastern Industrial Estate (Map ta Phut) , Maximum levels for Wastewater Discharging to Central Wastewater Treatment Plant

2. SM = Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 24th Edition, 2023.

3. GPS = Sampling at UTM 47 P 731257E 1405411N

4. Sampling By Mr. Supharek Phatklang (ว-003-ก-0031)

Examined By

(ว-003-ก-0007)
19/11/2024

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By

(ว-003-ก-0005)
19/11/2024REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY
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Test Report

Request No : W6711189

Report No : 6711-1176

Customer : GC Polyols Company Limited.

Address : Noen Phra Sub-district, Mueang Rayong District, Rayong 21150

Sampling Source : GCP Plant

Sample No : W 67110585

Sample Name : Cooling Water Blowdown Hold Sump

Sampling Date : 06/11/2024

Sampling By : ETC

Sampling Time : 8:50 AM

Sampling Method : Grab

Received Date : 07/11/2024

Tested Date : 07/11/2024 - 19/11/2024

Reported Date : 19/11/2024

Parameter	Unit	Method	Result	Standard ¹
Total Organic Carbon (TOC) #	ppm	Combustion Infrared	8.02	-

Physical Apperance : 1. Sample : lightly SS

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

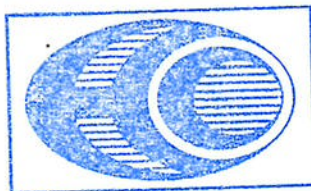
Remark : 1. /1 Eastern Industrial Estate (Map ta Phut) , Maximum levels for Wastewater Discharging to Central Wastewater Treatment Plant

2. # Tested by the office of Public Health and Environmental Technology Services Faculty of Public Health Mahidol University

3. GPS = Sampling at UTM 47 P 731257E 1405411N

4. Sampling By Mr. Supharker Phatklang

5. ppm = mg/L



Examined By

19/11/2024

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด
REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY
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Test Report

Request No : W6712125

Report No : 6712-1081

Customer : GC Polyols Company Limited.

Address : Noen Phra Sub-district, Mueang Rayong District, Rayong 21150

Sampling Source : GCP Plant

Sample No : W 67120409

Sample Name : Final Check Basin

Sampling Date : 04/12/2024

Sampling By : ETC

Sampling Time : 8:35 AM

Sampling Method : Grab

Received Date : 06/12/2024

Tested Date : 06/12/2024 - 12/12/2024

Reported Date : 18/12/2024

Parameter	Unit	Method	Result	Standard ¹
Biochemical Oxygen Demand	mg/L	5-Day BOD Test, Membrane Electrode Method (SM:5210B)	6.7	≤500
Chemical Oxygen Demand	mg/L	Closed Reflux, Titrimetric Method (SM:5220C)	63	≤750
Oil and Grease	mg/L	Liquid-Liquid, Partition-Gravimetric Method (SM:5520B)	< 3.0	≤10
pH (on site)		Electrometric Method	7.9	5.5 - 9
Temperature	°C	Laboratory and Field Method (SM:2550 B)	29	≤45
Total Dissolved Solids	mg/L	Dried at 180 degree celsius (SM:2540C)	448	≤3000
Total Suspended Solids	mg/L	Dried at 103-105 degree celsius (SM:2540D)	15	≤200

Physical Apperance : 1. Sample : green, lightly SS

2. Container : Normal [PE 0.5 L, PE 1.8 L, PE 2.0 L, G 1.0 L]

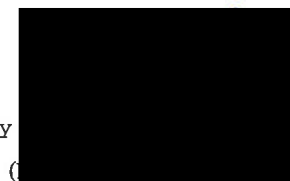
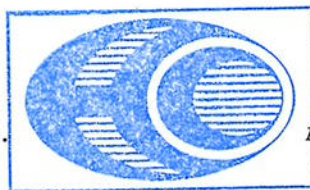
Remark : 1. /1 Eastern Industrial Estate (Map ta Phut) , Maximum levels for Wastewater Discharging to Central Wastewater Treatment Plant

2. SM = Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 24th Edition, 2023.

3. GPS = Sampling at UTM 47 P 731277E 1405406N

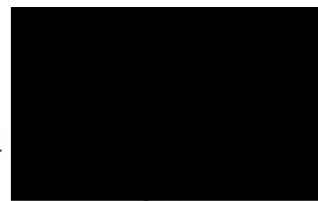
4. Sampling By Mr. Parkpoom Buasawad (ว-003-ค-0017)

Examined By

(ว-003-ค-0007)
18/12/2024

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved

(ว-003-ค-0005)
18/12/2024REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY
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Test Report

Request No : W6712125

Report No : 6712-1082

Customer : GC Polyols Company Limited.

Address : Noen Phra Sub-district, Mueang Rayong District, Rayong 21150

Sampling Source : GCP Plant

Sample No : W 67120410

Sample Name : Cooling Water Blowdown Hold Sump

Sampling Date : 04/12/2024

Sampling By : ETC

Sampling Time : 8:40 AM

Sampling Method : Grab

Received Date : 06/12/2024

Tested Date : 06/12/2024 - 18/12/2024

Reported Date : 18/12/2024

Parameter	Unit	Method	Result	Standard ¹
Biochemical Oxygen Demand	mg/L	5-Day BOD Test, Membrane Electrode Method (SM:5210B)	< 2.0	≤500
Chemical Oxygen Demand	mg/L	Closed Reflux, Titrimetric Method (SM:5220C)	< 40	≤750
Oil and Grease	mg/L	Liquid-Liquid, Partition-Gravimetric Method (SM:5520B)	< 3.0	≤10
pH (on site)		Electrometric Method	8.2	5.5 - 9
Temperature	°C	Laboratory and Field Method (SM:2550 B)	30	≤45
Total Dissolved Solids	mg/L	Dried at 180 degree celsius (SM:2540C)	496	≤3000
Total Suspended Solids	mg/L	Dried at 103-105 degree celsius (SM:2540D)	< 5	≤200

Physical Apperance : 1. Sample : yellow, lightly SS

2. Container : Normal [PE 0.5 L, PE 1.8 L, PE 2.0 L, G 1.0 L]

Remark : 1. /1 Eastern Industrial Estate (Map ta Phut) , Maximum levels for Wastewater Discharging to Central Wastewater Treatment Plant

2. SM = Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 24th Edition, 2023.

3. GPS = Sampling at UTM 47 P 731257E 1405411N

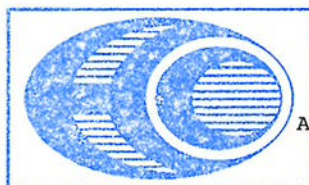
4. Sampling By Mr. Parkpoom Buasawad (จ-003-ค-0017)

Examined By



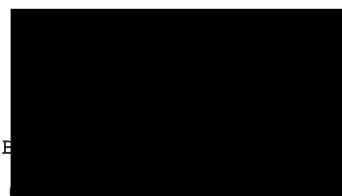
(จ-003-ค-0007)

18/12/2024



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Approved By



(จ-003-ค-0005)

18/12/2024

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Test Report

Request No : W6712125

Report No : 6712-1082

Customer : GC Polyols Company Limited.

Address : Noen Phra Sub-district, Mueang Rayong District, Rayong 21150

Sampling Source : GCP Plant

Sample No : W 67120410

Sample Name : Cooling Water Blowdown Hold Sump

Sampling Date : 04/12/2024

Sampling By : ETC

Sampling Time : 8:40 AM

Sampling Method : Grab

Received Date : 06/12/2024

Tested Date : 06/12/2024 - 18/12/2024

Reported Date : 18/12/2024

Parameter	Unit	Method	Result	Standard ¹
Total Organic Carbon (TOC)	# ppm	Combustion Infrared	9.78	-

Physical Apperance : 1. Sample : yellow, lightly SS

2. Container : Normal [PE 0.5 L, PE 1.8 L, PE 2.0 L, G 1.0 L]

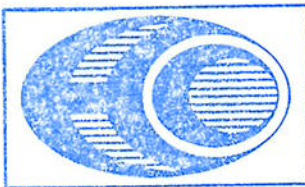
Remark : 1. /I Eastern Industrial Estate (Map ta Phut) , Maximum levels for Wastewater Discharging to Central Wastewater Treatment Plant

2. # Tested by the office of Public Health and Environmental Technology Services Faculty of Public Health Mahidol University

3. GPS = Sampling at UTM 47 P 731257E 1405411N

4. Sampling By Mr. Parkpoom Buasawad

5. ppm = mg/L



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Examined By

18/12/2024

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Request No. LA67-R0848

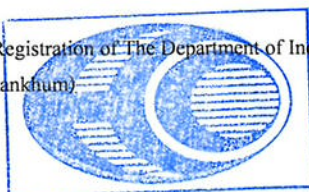
Report No. R6708-4484

TEST REPORT

CUSTOMER : GC Polyols Company Limited
ADDRESS : Noen Phra Sub-district, Mueang Rayong District, Rayong 21150
SAMPLE SOURCE : GCP Plant
SAMPLE POINT : บริเวณริมรั้วโรงงานด้านทิศเหนือ
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 00222592 : Class 2

SAMPLE NO. : 29875
MEASURING DATE : 02-03/08/2024
RECEIVED DATE : 09/08/2024
REPORTED DATE : 24/08/2024

TIME \ DATE	02-03/08/2024 (L_{eq})	02-03/08/2024 (L_{max})	02-03/08/2024 (L_{90})	UNIT
10:00 - 11:00 ^{1/3}	61.0	76.2	59.6	dB(A)
11:00 - 12:00	60.7	64.6	59.7	dB(A)
12:00 - 13:00	60.6	65.6	59.7	dB(A)
13:00 - 14:00	62.9	79.6	60.2	dB(A)
14:00 - 15:00	62.0	74.6	60.1	dB(A)
15:00 - 16:00	64.9	76.6	62.4	dB(A)
16:00 - 17:00	60.9	73.0	59.7	dB(A)
17:00 - 18:00	61.2	73.2	60.0	dB(A)
18:00 - 19:00	60.8	67.2	60.0	dB(A)
19:00 - 20:00	61.0	72.5	60.1	dB(A)
20:00 - 21:00	61.3	72.0	60.1	dB(A)
21:00 - 22:00	61.5	71.4	60.1	dB(A)
22:00 - 23:00	61.6	72.5	60.0	dB(A)
23:00 - 00:00	60.5	66.0	59.7	dB(A)
00:00 - 01:00	60.1	66.6	59.4	dB(A)
01:00 - 02:00	60.3	73.7	59.4	dB(A)
02:00 - 03:00	63.2	68.5	61.9	dB(A)
03:00 - 04:00	63.4	70.8	61.3	dB(A)
04:00 - 05:00	61.8	68.6	61.1	dB(A)
05:00 - 06:00	61.9	74.6	61.0	dB(A)
06:00 - 07:00	61.2	64.6	60.5	dB(A)
07:00 - 08:00	61.4	71.4	60.3	dB(A)
08:00 - 09:00	61.9	76.2	60.5	dB(A)
09:00 - 10:00	61.0	63.7	60.2	dB(A)
L_{eq} 24 hr.	61.7	-	-	dB(A)
L_{dn}	68.1	-	-	dB(A)
Maximum	-	79.6	-	dB(A)
Standard	$70^{1/1}, 70^{1/2}$	$115^{1/1}, 115^{1/2}$	-	dB(A)

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

บริษัท อีสเทิร์น ไทย คอนซัลติ้ง 1992 จำกัด

Approved By..



24/08/2024

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Request No. LA67-R0848

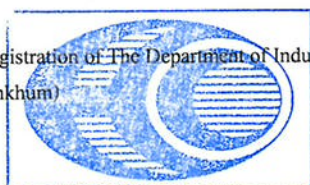
Report No. R6708-4485

TEST REPORT

CUSTOMER : GC Polyols Company Limited
ADDRESS : Noen Phra Sub-district, Mueang Rayong District, Rayong 21150
SAMPLE SOURCE : GCP Plant
SAMPLE POINT : บริเวณริมรั้วโรงงานด้านทิศเหนือ
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 00222592 : Class 2

SAMPLE NO. : 29876
MEASURING DATE : 03-04/08/2024
RECEIVED DATE : 09/08/2024
REPORTED DATE : 24/08/2024

TIME \ DATE	03-04/08/2024 (L_{eq})	03-04/08/2024 (L_{max})	03-04/08/2024 (L_{90})	UNIT
10:00 - 11:00 ^{1/3}	61.2	66.9	60.5	dB(A)
11:00 - 12:00	61.4	75.1	60.3	dB(A)
12:00 - 13:00	61.1	70.4	60.3	dB(A)
13:00 - 14:00	61.5	71.1	60.7	dB(A)
14:00 - 15:00	61.0	69.8	60.3	dB(A)
15:00 - 16:00	61.8	75.6	60.2	dB(A)
16:00 - 17:00	60.9	64.1	60.2	dB(A)
17:00 - 18:00	60.6	69.6	59.7	dB(A)
18:00 - 19:00	60.5	64.7	59.8	dB(A)
19:00 - 20:00	60.6	65.1	60.0	dB(A)
20:00 - 21:00	60.3	63.8	59.7	dB(A)
21:00 - 22:00	60.8	70.3	59.9	dB(A)
22:00 - 23:00	60.6	66.4	59.9	dB(A)
23:00 - 00:00	63.8	75.0	61.3	dB(A)
00:00 - 01:00	64.2	68.3	62.9	dB(A)
01:00 - 02:00	63.2	65.5	62.7	dB(A)
02:00 - 03:00	62.5	65.0	62.0	dB(A)
03:00 - 04:00	61.6	75.2	60.6	dB(A)
04:00 - 05:00	61.1	63.9	60.3	dB(A)
05:00 - 06:00	62.1	66.9	60.9	dB(A)
06:00 - 07:00	61.1	66.4	60.5	dB(A)
07:00 - 08:00	61.3	64.9	60.6	dB(A)
08:00 - 09:00	61.6	70.7	60.7	dB(A)
09:00 - 10:00	61.1	65.7	60.4	dB(A)
L_{eq} 24 hr.	61.6	-	-	dB(A)
L_{dn}	68.7	-	-	dB(A)
Maximum	-	75.6	-	dB(A)
Standard	$70^{1/1}, 70^{1/2}$	$115^{1/1}, 115^{1/2}$	-	dB(A)

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

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By..

24/08/2024

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Request No. LA67-R0848

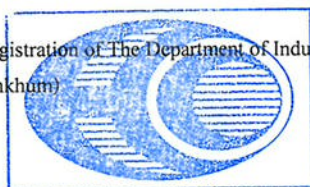
Report No. R6708-4486

TEST REPORT

CUSTOMER : GC Polyols Company Limited
ADDRESS : Noen Phra Sub-district, Mueang Rayong District, Rayong 21150
SAMPLE SOURCE : GCP Plant
SAMPLE POINT : บริเวณริมรั้วโรงงานด้านทิศเหนือ
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 00222592 : Class 2

SAMPLE NO. : 29877
MEASURING DATE : 04-05/08/2024
RECEIVED DATE : 09/08/2024
REPORTED DATE : 24/08/2024

TIME \ DATE	04-05/08/2024 (L_{eq})	04-05/08/2024 (L_{max})	04-05/08/2024 (L_{90})	UNIT
10:00 - 11:00 ^{1/3}	60.7	69.8	59.8	dB(A)
11:00 - 12:00	60.6	74.2	59.6	dB(A)
12:00 - 13:00	60.5	66.5	59.8	dB(A)
13:00 - 14:00	60.3	66.6	59.6	dB(A)
14:00 - 15:00	61.4	73.7	60.5	dB(A)
15:00 - 16:00	60.6	63.6	59.9	dB(A)
16:00 - 17:00	61.4	73.0	60.2	dB(A)
17:00 - 18:00	61.3	69.5	60.3	dB(A)
18:00 - 19:00	60.2	63.7	59.6	dB(A)
19:00 - 20:00	60.6	66.0	59.8	dB(A)
20:00 - 21:00	60.7	67.7	59.8	dB(A)
21:00 - 22:00	61.6	71.5	60.5	dB(A)
22:00 - 23:00	64.5	70.4	63.4	dB(A)
23:00 - 00:00	66.9	70.6	65.7	dB(A)
00:00 - 01:00	60.4	67.7	59.7	dB(A)
01:00 - 02:00	60.3	71.0	59.4	dB(A)
02:00 - 03:00	60.2	63.4	59.6	dB(A)
03:00 - 04:00	61.3	73.7	60.1	dB(A)
04:00 - 05:00	60.6	63.8	60.0	dB(A)
05:00 - 06:00	60.7	65.3	60.1	dB(A)
06:00 - 07:00	60.5	65.8	59.9	dB(A)
07:00 - 08:00	61.2	74.8	59.7	dB(A)
08:00 - 09:00	60.5	71.1	59.8	dB(A)
09:00 - 10:00	61.4	73.3	60.0	dB(A)
L_{eq} 24 hr.	61.5	-	-	dB(A)
L_{dn}	68.6	-	-	dB(A)
Maximum	-	74.8	-	dB(A)
Standard	$70^{1/1}, 70^{1/2}$	$115^{1/1}, 115^{1/2}$	-	dB(A)

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

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By.

24/08/2024

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Request No. LA67-R0848

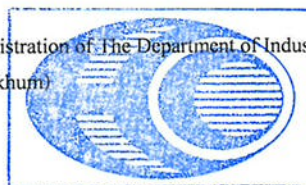
Report No. R6708-4487

TEST REPORT

CUSTOMER : GC Polyols Company Limited
 ADDRESS : Noen Phra Sub-district, Mueang Rayong District, Rayong 21150
 SAMPLE SOURCE : GCP Plant
 SAMPLE POINT : บริเวณริมรั้วโรงงานด้านทิศเหนือ
 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 00222592 : Class 2

SAMPLE NO. : 29878
 MEASURING DATE : 05-06/08/2024
 RECEIVED DATE : 09/08/2024
 REPORTED DATE : 24/08/2024

TIME \ DATE	05-06/08/2024 (L_{eq})	05-06/08/2024 (L_{max})	05-06/08/2024 (L_{90})	UNIT
10:00 - 11:00 ³	60.9	76.2	59.6	dB(A)
11:00 - 12:00	61.6	75.2	60.0	dB(A)
12:00 - 13:00	61.0	64.7	60.4	dB(A)
13:00 - 14:00	60.7	64.6	60.1	dB(A)
14:00 - 15:00	61.6	74.0	60.6	dB(A)
15:00 - 16:00	62.2	80.9	60.4	dB(A)
16:00 - 17:00	60.3	65.8	59.6	dB(A)
17:00 - 18:00	61.4	69.2	60.6	dB(A)
18:00 - 19:00	60.8	65.0	60.2	dB(A)
19:00 - 20:00	60.9	63.7	60.3	dB(A)
20:00 - 21:00	61.3	74.6	60.1	dB(A)
21:00 - 22:00	62.1	75.1	61.2	dB(A)
22:00 - 23:00	64.2	67.3	63.8	dB(A)
23:00 - 00:00	64.3	75.3	63.7	dB(A)
00:00 - 01:00	64.2	74.9	63.6	dB(A)
01:00 - 02:00	63.9	65.5	63.4	dB(A)
02:00 - 03:00	61.0	75.6	60.1	dB(A)
03:00 - 04:00	60.8	67.7	60.2	dB(A)
04:00 - 05:00	63.3	67.2	62.9	dB(A)
05:00 - 06:00	64.2	66.1	63.8	dB(A)
06:00 - 07:00	61.5	65.3	60.7	dB(A)
07:00 - 08:00	60.7	65.3	60.0	dB(A)
08:00 - 09:00	61.8	73.4	60.3	dB(A)
09:00 - 10:00	64.6	72.7	63.8	dB(A)
L_{eq} 24 hr.	62.3	-	-	dB(A)
L_{dn}	69.5	-	-	dB(A)
Maximum	-	80.9	-	dB(A)
Standard	$70^{1/1}, 70^{1/2}$	$115^{1/1}, 115^{1/2}$	-	dB(A)

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

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By.

24/08/2024

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Request No. LA67-R0848

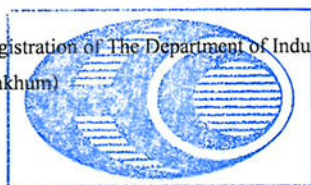
Report No. R6708-4488

TEST REPORT

CUSTOMER : GC Polyols Company Limited
ADDRESS : Noen Phra Sub-district, Mueang Rayong District, Rayong 21150
SAMPLE SOURCE : GCP Plant
SAMPLE POINT : บริเวณริมรั้วโรงงานด้านทิศเหนือ
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 00222592 : Class 2

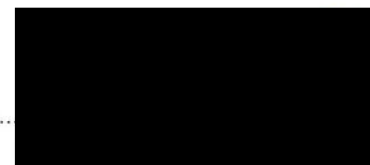
SAMPLE NO. : 29879
MEASURING DATE : 06-07/08/2024
RECEIVED DATE : 09/08/2024
REPORTED DATE : 24/08/2024

TIME \ DATE	06-07/08/2024 (L_{eq})	06-07/08/2024 (L_{max})	06-07/08/2024 (L_{90})	UNIT
10:00 - 11:00 ^{/3}	64.2	70.2	63.6	dB(A)
11:00 - 12:00	64.2	73.7	63.6	dB(A)
12:00 - 13:00	64.4	66.4	63.9	dB(A)
13:00 - 14:00	65.2	67.4	64.6	dB(A)
14:00 - 15:00	65.2	67.7	64.7	dB(A)
15:00 - 16:00	65.1	68.2	64.3	dB(A)
16:00 - 17:00	61.2	70.9	60.4	dB(A)
17:00 - 18:00	62.2	69.7	61.4	dB(A)
18:00 - 19:00	64.7	68.3	64.3	dB(A)
19:00 - 20:00	65.0	67.2	64.6	dB(A)
20:00 - 21:00	65.3	67.1	64.9	dB(A)
21:00 - 22:00	65.6	67.9	65.1	dB(A)
22:00 - 23:00	66.2	72.9	65.7	dB(A)
23:00 - 00:00	66.7	68.2	66.3	dB(A)
00:00 - 01:00	64.7	70.1	64.2	dB(A)
01:00 - 02:00	64.6	66.6	64.1	dB(A)
02:00 - 03:00	64.8	74.9	64.2	dB(A)
03:00 - 04:00	64.6	67.0	64.2	dB(A)
04:00 - 05:00	64.8	74.4	64.4	dB(A)
05:00 - 06:00	64.7	75.0	64.3	dB(A)
06:00 - 07:00	65.1	68.9	64.6	dB(A)
07:00 - 08:00	65.2	67.4	64.7	dB(A)
08:00 - 09:00	65.5	68.3	64.9	dB(A)
09:00 - 10:00	65.5	67.4	65.0	dB(A)
L_{eq} 24 hr.	64.9	-	-	dB(A)
L_{dn}	71.5	-	-	dB(A)
Maximum	-	75.0	-	dB(A)
Standard	$70^{/1}, 70^{/2}$	$115^{/1}, 115^{/2}$	-	dB(A)

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

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By..



24/08/2024

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Request No. LA67-R0848

Report No. R6708-4489

TEST REPORT

CUSTOMER : GC Polyols Company Limited
ADDRESS : Noen Phra Sub-district, Mueang Rayong District, Rayong 21150
SAMPLE SOURCE : GCP Plant
SAMPLE POINT : บริเวณริมรั้วโรงงานด้านทิศเหนือ
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 00222592 : Class 2

SAMPLE NO. : 29880
MEASURING DATE : 07-08/08/2024
RECEIVED DATE : 09/08/2024
REPORTED DATE : 24/08/2024

TIME \ DATE	07-08/08/2024 (L_{eq})	07-08/08/2024 (L_{max})	07-08/08/2024 (L_{90})	UNIT
10:00 - 11:00 ^{/3}	65.8	77.0	65.1	dB(A)
11:00 - 12:00	66.0	77.5	65.2	dB(A)
12:00 - 13:00	65.9	68.1	65.3	dB(A)
13:00 - 14:00	66.0	67.9	65.4	dB(A)
14:00 - 15:00	65.8	67.9	65.3	dB(A)
15:00 - 16:00	65.8	73.8	65.2	dB(A)
16:00 - 17:00	66.0	67.7	65.4	dB(A)
17:00 - 18:00	66.3	74.1	65.7	dB(A)
18:00 - 19:00	66.3	68.0	65.9	dB(A)
19:00 - 20:00	66.5	74.8	66.0	dB(A)
20:00 - 21:00	67.0	68.3	66.6	dB(A)
21:00 - 22:00	66.1	74.3	65.6	dB(A)
22:00 - 23:00	64.0	65.8	63.5	dB(A)
23:00 - 00:00	64.4	72.0	63.8	dB(A)
00:00 - 01:00	64.5	66.1	63.9	dB(A)
01:00 - 02:00	64.4	69.5	63.8	dB(A)
02:00 - 03:00	64.5	66.3	63.9	dB(A)
03:00 - 04:00	64.5	66.3	63.8	dB(A)
04:00 - 05:00	64.6	66.4	64.0	dB(A)
05:00 - 06:00	64.5	68.5	63.9	dB(A)
06:00 - 07:00	64.4	66.8	63.9	dB(A)
07:00 - 08:00	64.8	68.5	64.3	dB(A)
08:00 - 09:00	65.0	82.1	63.2	dB(A)
09:00 - 10:00	66.4	79.9	62.6	dB(A)
L_{eq} 24 hr.	65.5	-	-	dB(A)
L_{dn}	71.1	-	-	dB(A)
Maximum	-	82.1	-	dB(A)
Standard	$70^{/1}, 70^{/2}$	$115^{/1}, 115^{/2}$	-	dB(A)

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

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By

24/08/2024

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY
THIS REPORT SHALL NOT REPRODUCED EXCEPT IN FULL
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Request No. LA67-R0848

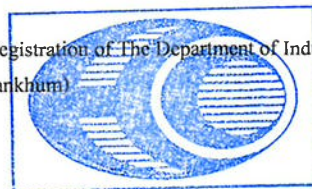
Report No. R6708-4490

TEST REPORT

CUSTOMER : GC Polyols Company Limited
ADDRESS : Noen Phra Sub-district, Mueang Rayong District, Rayong 21150
SAMPLE SOURCE : GCP Plant
SAMPLE POINT : บริเวณริมรั้วโรงงานด้านทิศเหนือ
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 00222592 : Class 2

SAMPLE NO. : 29881
MEASURING DATE : 08-09/08/2024
RECEIVED DATE : 09/08/2024
REPORTED DATE : 24/08/2024

TIME \ DATE	08-09/08/2024 (L_{eq})	08-09/08/2024 (L_{max})	08-09/08/2024 (L_{90})	UNIT
10:00 - 11:00 ^{1/3}	65.9	82.5	62.3	dB(A)
11:00 - 12:00	63.1	80.2	61.7	dB(A)
12:00 - 13:00	62.2	65.9	61.8	dB(A)
13:00 - 14:00	62.4	73.9	61.7	dB(A)
14:00 - 15:00	62.8	77.8	62.0	dB(A)
15:00 - 16:00	63.3	74.1	62.5	dB(A)
16:00 - 17:00	63.0	82.5	62.1	dB(A)
17:00 - 18:00	64.3	81.2	62.5	dB(A)
18:00 - 19:00	62.5	64.7	62.2	dB(A)
19:00 - 20:00	62.6	63.7	62.3	dB(A)
20:00 - 21:00	62.6	65.6	62.3	dB(A)
21:00 - 22:00	62.5	63.5	62.2	dB(A)
22:00 - 23:00	62.5	63.4	62.2	dB(A)
23:00 - 00:00	62.4	63.9	62.1	dB(A)
00:00 - 01:00	62.2	63.7	61.9	dB(A)
01:00 - 02:00	62.1	68.4	61.8	dB(A)
02:00 - 03:00	62.1	63.6	61.9	dB(A)
03:00 - 04:00	62.3	64.8	61.9	dB(A)
04:00 - 05:00	62.5	64.4	62.2	dB(A)
05:00 - 06:00	62.7	69.2	62.3	dB(A)
06:00 - 07:00	62.4	70.7	62.0	dB(A)
07:00 - 08:00	63.0	76.7	62.2	dB(A)
08:00 - 09:00	62.5	66.5	62.2	dB(A)
09:00 - 10:00	64.3	76.3	63.1	dB(A)
L_{eq} 24 hr.	62.9	-	-	dB(A)
L_{dn}	68.9	-	-	dB(A)
Maximum	-	82.5	-	dB(A)
Standard	$70^{1/1}, 70^{1/2}$	$115^{1/1}, 115^{1/2}$	-	dB(A)

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

บริษัท อีสเทิร์น ไทย คอนซัลติ้ง 1992 จำกัด

Approved By

24/08/2024

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY
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Request No. ATR6708046

Report No. 6708-0881

TEST REPORT

CUSTOMER : GC Polyols Company Limited.
ADDRESS : Noen Phra Sub-district, Mueang Rayong District, Rayong, 21150
SAMPLE SOURCE : GCP Plant
SAMPLE NAME : พื้นที่กระบวนการผลิต บริเวณที่ 1 (PPG ชั้น 1)
SAMPLING DATE : 21/08/2024 SAMPLE NO. : A67080881
RECEIVED DATE : 26/08/2024 SAMPLING TIME : 09:20-10:10
SAMPLING INSTRUMENT : Personal Pump Flow rate 0.10 L/min TESTED DATE : 26/08/2024-09/09/2024
Serial No. 218385 REPORTED DATE : 10/09/2024

PARAMETER**	TEST METHOD	RESULT ^{/2}	STD ^{/1}	UNIT
Propylene Oxide	NIOSH 1612/GC-FID	ND	240	mg/m ³
		ND	100	ppm

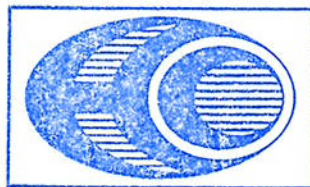
REMARK:^{/1} Notification of The Department of Labour Protection and Welfare B.E.2560 (2017), Concentration Limits of Hazardous Chemicals.^{/2} ND = Non detectable : When detection limit of Propylene Oxide is less than 0.10 mg/m³ or 0.05 ppm.

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

Sampling By Eastern Thai Consulting 1992 Co.,Ltd., (Miss Pornnapa Pongpet)

Analysed By SECOT Co.,Ltd.

GPS = Sampling at UTM 47P 731279E 1405371N



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Examined By.

10/09/2024

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY
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Request No. ATR6708046

Report No. 6708-0882

TEST REPORT

CUSTOMER : GC Polyols Company Limited.
ADDRESS : Noen Phra Sub-district, Mueang Rayong District, Rayong, 21150
SAMPLE SOURCE : GCP Plant
SAMPLE NAME : พื้นที่กระบวนการผลิต บริเวณที่ 1 (PPG ชั้น 1) SAMPLE NO : A67080882
SAMPLING DATE : 21/08/2024 SAMPLING TIME : 09:20-10:20
RECEIVED DATE : 26/08/2024 TESTED DATE : 26/08/2024-30/08/2024
SAMPLING INSTRUMENT : Passive Sampling REPORTED DATE : 06/09/2024

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.

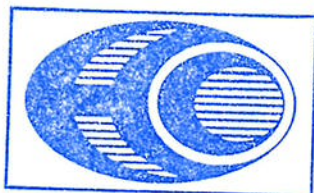
² ND = Non detectable : detection limit of Ethylene Oxide is less than 0.05 mg/m³ or 0.03 ppm.

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

Sampling By Eastern Thai Consulting 1992 Co.,Ltd., (Miss Pornnapa Pongpet)

Analysed By SECOT Co.,Ltd.

GPS = Sampling at UTM 47P 731279E 1405371N



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Examined By .

06/09/2024

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY
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Request No. ATR6712028

Report No. 6712-0393

TEST REPORT

CUSTOMER : GC Polyols Company Limited.
ADDRESS : Noen Phra Sub-district, Mueang Rayong District, Rayong, 21150
SAMPLE SOURCE : GCP Plant
SAMPLE NAME : พื้นที่กระบวนการผลิต บริเวณที่ 1 (PPG ชั้น 1)
SAMPLING DATE : 22/11/2024 SAMPLE NO. : A67120393
RECEIVED DATE : 10/12/2024 SAMPLING TIME : 09:17-10:07
SAMPLING INSTRUMENT : Personal Pump Flow rate 0.10 L/min TESTED DATE : 10/12/2024-18/12/2024
Serial No. 218402 REPORTED DATE : 19/12/2024

PARAMETER**	TEST METHOD	RESULT ^{/2}	STD ^{/1}	UNIT
Propylene Oxide	NIOSH 1612/GC-FID	ND	240	mg/m ³
		ND	100	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 : When detection limit of Propylene Oxide is less than 0.10 mg/m³ or 0.05 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., (Miss Pornnapa Pongpet)

Analysed By SECOT Co.,Ltd.

GPS = Sampling at UTM 47P 731279E 1405371N



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Examined By.

19/12/2024

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY
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Request No. ATR6712028

Report No. 6712-0394

TEST REPORT

CUSTOMER : GC Polyols Company Limited.

ADDRESS : Noen Phra Sub-district, Mueang Rayong District, Rayong, 21150

SAMPLE SOURCE : GCP Plant

SAMPLE NAME : พื้นที่กระบวนการผลิต บริเวณที่ 1 (PPG ชั้น 1) SAMPLE NO : A67120394

SAMPLING DATE : 22/11/2024 SAMPLING TIME : 09:17-10:17

RECEIVED DATE : 10/12/2024 TESTED DATE : 10/12/2024 – 18/12/2024

SAMPLING INSTRUMENT : Passive Sampling REPORTED DATE : 19/12/2024

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 less than 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., (Miss Pornnapa Pongpet)
Analysed By SECOT Co.,Ltd.
GPS = Sampling at UTM 47P 731279E 1405371N



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Examined By

19/12/2024

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Request No. ATR6708046

Report No. 6708-0883

TEST REPORT

CUSTOMER : GC Polyols Company Limited.
ADDRESS : Noen Phra Sub-district, Mueang Rayong District, Rayong, 21150
SAMPLE SOURCE : GCP Plant
SAMPLE NAME : พื้นที่กระบวนการผลิต บริเวณที่ 2 (POP ชั้นที่ 1)
SAMPLING DATE : 21/08/2024 SAMPLE NO. : A67080883
RECEIVED DATE : 26/08/2024 SAMPLING TIME : 09:30-10:30
SAMPLING INSTRUMENT : Personal Pump Flow rate 0.10 L/min TESTED DATE : 26/08/2024-02/09/2024
Serial No. 20200403061 REPORTED DATE : 06/09/2024

PARAMETER*	TEST METHOD	RESULT	STD ¹	UNIT
Styrene	Sorbent Adsorption, Gas	< 3.78	426	mg/m ³
	Chromatography/NIOSH 1501	< 0.89	100	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.

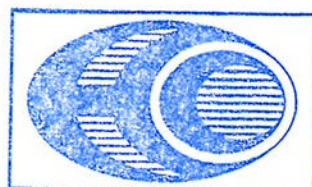
(Sampling By Miss Pornnapa Pongpet)

GPS = Sampling at UTM 47P 731258E 1405395N

Examined By



06/09/2024



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By



06/09/2024

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Request No. ATR6708046

Report No. 6708-0884

TEST REPORT

CUSTOMER : GC Polyols Company Limited.

ADDRESS : Noen Phra Sub-district, Mueang Rayong District, Rayong, 21150

SAMPLE SOURCE : GCP Plant

SAMPLE NAME : พื้นที่กระบวนการผลิต บริเวณที่ 2 (POP ชั้นที่ 1)

SAMPLING DATE : 21/08/2024 SAMPLE NO. : A67080884

RECEIVED DATE : 26/08/2024 SAMPLING TIME : 09:30-10:30

SAMPLING INSTRUMENT : Personal Pump Flow rate 0.10 L/min TESTED DATE : 26/08/2024-09/09/2024

Serial No. 20200403061 REPORTED DATE : 10/09/2024

PARAMETER**	TEST METHOD	RESULT ^{/2}	STD ^{/1}	UNIT
Acrylonitrile	NIOSH 1604/GC-FID	ND	4.0	mg/m ³
		ND	2.0	ppm

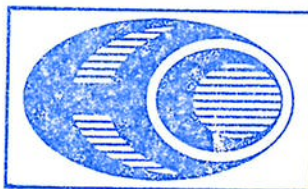
REMARK:^{/1} Notification of The Department of Labour Protection and Welfare B.E.2560 (2017), Concentration Limits of Hazardous Chemicals.^{/2} ND = Non detectable : When detection limit of Acrylonitrile is less than 0.05 mg/m³ or 0.02 ppm.

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

Sampling By Eastern Thai Consulting 1992 Co.,Ltd., (Miss Pornnapa Pongpet)

Analysed By SECOT Co.,Ltd.

GPS = Sampling at UTM 47P 731258E 1405395N



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Examined By...

10/09/2024

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY

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Request No. ATR6712028

Report No. 6712-0395

TEST REPORT

CUSTOMER : GC Polyols Company Limited.
ADDRESS : Noen Phra Sub-district, Mueang Rayong District, Rayong, 21150
SAMPLE SOURCE : GCP Plant
SAMPLE NAME : พื้นที่กระบวนการผลิต บริเวณที่ 2 (POP ชั้นที่ 1)
SAMPLING DATE : 22/11/2024 SAMPLE NO. : A67120395
RECEIVED DATE : 10/12/2024 SAMPLING TIME : 09:20-10:20
SAMPLING INSTRUMENT : Personal Pump Flow rate 0.10 L/min TESTED DATE : 10/12/2024-10/12/2024
Serial No. 218388 REPORTED DATE : 19/12/2024

PARAMETER*	TEST METHOD	RESULT	STD ^{1/}	UNIT
Styrene	Sorbent Adsorption, Gas	< 3.78	426	mg/m ³
	Chromatography/NIOSH 1501	< 0.89	100	ppm

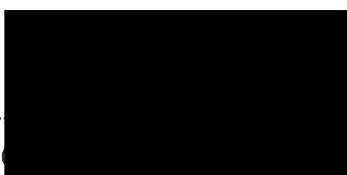
REMARK:

^{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 Miss Pornnapa Pongpet)

GPS = Sampling at UTM 47P 731258E 1405395N

Examined By ..



19/12/2024



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By



19/12/2024

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Request No. ATR6712028

Report No. 6712-0396

TEST REPORT

CUSTOMER : GC Polyols Company Limited.
ADDRESS : Noen Phra Sub-district, Mueang Rayong District, Rayong, 21150
SAMPLE SOURCE : GCP Plant
SAMPLE NAME : พื้นที่กระบวนการผลิต บริเวณที่ 2 (POP ชั้นที่ 1)
SAMPLING DATE : 22/11/2024 SAMPLE NO. : A67120396
RECEIVED DATE : 10/12/2024 SAMPLING TIME : 09:20-10:20
SAMPLING INSTRUMENT : Personal Pump Flow rate 0.10 L/min TESTED DATE : 10/12/2024-18/12/2024
Serial No. 218413 REPORTED DATE : 19/12/2024

PARAMETER**	TEST METHOD	RESULT ^{/2}	STD ^{/1}	UNIT
Acrylonitrile	NIOSH 1604/GC-FID	ND	4.0	mg/m ³
		ND	2.0	ppm

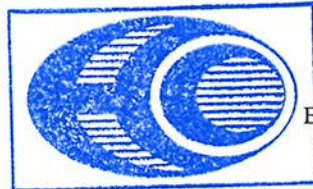
REMARK:^{/1} Notification of The Department of Labour Protection and Welfare B.E.2560 (2017), Concentration Limits of Hazardous Chemicals.^{/2} ND = Non detectable : When detection limit of Acrylonitrile is less than 0.05 mg/m³ or 0.02 ppm.

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

Sampling By Eastern Thai Consulting 1992 Co.,Ltd., (Miss Pornnapa Pongpet)

Analysed By SECOT Co.,Ltd.

GPS = Sampling at UTM 47P 731258E 1405395N



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Examined By.

19/12/2024

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Request No. LA67-R0878

Report No. R6708-5638

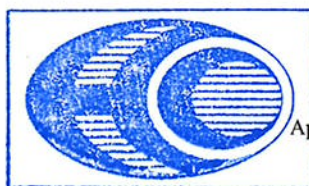
TEST REPORT

CUSTOMER : GC Polyols Company Limited
 ADDRESS : Noen Phra Sub-district, Mueang Rayong District, Rayong 21150
 SAMPLE SOURCE : GCP Plant
 SAMPLE POINT : บริเวณพื้นที่กระบวนการผลิต บริเวณที่ 1
 PARAMETER* : L_{eq} 1 hr., L_{eq} 12 hr. & L_{max} SAMPLE NO. : 31035
 DETERMINATION METHOD : ISO 11202:2010 MEASURING DATE : 21/08/2024
 INSTRUMENT : Integrated Sound Level Meter ; RECEIVED DATE : 21/08/2024
 S/N 00322748 : Class 2 REPORTED DATE : 03/09/2024

MEASURING TIME	RESULT		UNIT
	L_{eq} 1 hr.	L_{max}	
09:35 - 10:35	75.3	83.5	dB(A)
10:35 - 11:35	78.8	101.0	dB(A)
11:35 - 12:35	79.5	101.3	dB(A)
12:35 - 13:35	74.5	85.5	dB(A)
13:35 - 14:35	74.5	83.4	dB(A)
14:35 - 15:35	74.8	83.1	dB(A)
15:35 - 16:35	74.7	83.9	dB(A)
16:35 - 17:35	74.7	82.9	dB(A)
17:35 - 18:35	74.8	81.9	dB(A)
18:35 - 19:35	74.3	82.2	dB(A)
19:35 - 20:35	74.5	82.0	dB(A)
20:35 - 21:35	74.8	83.6	dB(A)
L_{eq} 12 hr.	75.8	—	dB(A)
Standard	87 ^{/1}	140 ^{/1} , 115 ^{/2}	dB(A)

REMARK : ^{/1} Notification of The Ministry of Industry B.E. 2546 (2003)^{/2} Regulation of The Ministry of Labour B.E. 2559 (2016)

* Measurement By Ms. Pornnapha Phongphet



Approved By .

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

03/09/2024

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY
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Request No. LA67-R0878

Report No. R6708-5639

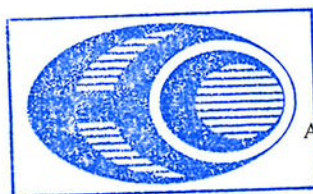
TEST REPORT

CUSTOMER : GC Polyols Company Limited
ADDRESS : Noen Phra Sub-district, Mueang Rayong District, Rayong 21150
SAMPLE SOURCE : GCP Plant
SAMPLE POINT : บริเวณพื้นที่กระบวนการผลิต บริเวณที่ 2
PARAMETER* : L_{eq} 1 hr., L_{eq} 12 hr. & L_{max} SAMPLE NO. : 31036
DETERMINATION METHOD : ISO 11202:2010 MEASURING DATE : 21/08/2024
INSTRUMENT : Integrated Sound Level Meter ; RECEIVED DATE : 21/08/2024
S/N 00322746 : Class 2 REPORTED DATE : 03/09/2024

MEASURING TIME	RESULT		UNIT
	L_{eq} 1 hr.	L_{max}	
09:20 - 10:20	66.7	78.6	dB(A)
10:20 - 11:20	67.4	91.3	dB(A)
11:20 - 12:20	79.2	101.2	dB(A)
12:20 - 13:20	65.8	76.2	dB(A)
13:20 - 14:20	66.1	76.8	dB(A)
14:20 - 15:20	66.0	79.9	dB(A)
15:20 - 16:20	66.0	82.6	dB(A)
16:20 - 17:20	66.7	88.7	dB(A)
17:20 - 18:20	66.3	78.2	dB(A)
18:20 - 19:20	65.2	75.6	dB(A)
19:20 - 20:20	65.4	75.9	dB(A)
20:20 - 21:20	66.2	76.6	dB(A)
L_{eq} 12 hr.	70.3	—	dB(A)
Standard	87 ^{/1}	140 ^{/1} , 115 ^{/2}	dB(A)

REMARK : ^{/1} Notification of The Ministry of Industry B.E. 2546 (2003)^{/2} Regulation of The Ministry of Labour B.E. 2559 (2016)

* Measurement By Ms. Pornnapha Phongphet



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By

03/09/2024

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Request No. LA67-R0878

Report No. R6708-5640

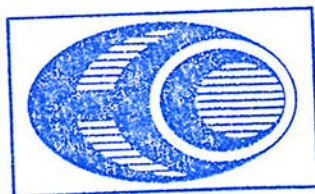
TEST REPORT

CUSTOMER : GC Polyols Company Limited
ADDRESS : Noen Phra Sub-district, Mueang Rayong District, Rayong 21150
SAMPLE SOURCE : GCP Plant
SAMPLE POINT : Raw Material Warehouse
PARAMETER* : L_{eq} 1 hr., L_{eq} 12 hr. & L_{max} SAMPLE NO. : 31037
DETERMINATION METHOD : ISO 11202:2010 MEASURING DATE : 21/08/2024
INSTRUMENT : Integrated Sound Level Meter ; RECEIVED DATE : 21/08/2024
S/N 00322754 : Class 2 REPORTED DATE : 03/09/2024

MEASURING TIME	RESULT		UNIT
	L_{eq} 1 hr.	L_{max}	
09:00 - 10:00	59.2	76.8	dB(A)
10:00 - 11:00	59.7	77.6	dB(A)
11:00 - 12:00	73.4	96.0	dB(A)
12:00 - 13:00	59.1	75.1	dB(A)
13:00 - 14:00	63.8	91.4	dB(A)
14:00 - 15:00	67.2	89.5	dB(A)
15:00 - 16:00	58.3	68.9	dB(A)
16:00 - 17:00	62.2	80.2	dB(A)
17:00 - 18:00	59.6	77.2	dB(A)
18:00 - 19:00	59.4	70.6	dB(A)
19:00 - 20:00	59.2	71.6	dB(A)
20:00 - 21:00	59.6	72.8	dB(A)
L_{eq} 12 hr.	65.0	—	dB(A)
Standard	$87^{/1}$	$140^{/1}, 115^{/2}$	dB(A)

REMARK : ^{/1} Notification of The Ministry of Industry B.E. 2546 (2003)^{/2} Regulation of The Ministry of Labour B.E. 2559 (2016)

* Measurement By Ms. Pornnapha Phongphet



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Approved By

03/09/2024

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Request No. LA67-R0878

Report No. R6708-5641

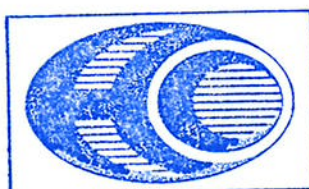
TEST REPORT

CUSTOMER : GC Polyols Company Limited
ADDRESS : Noen Phra Sub-district, Mueang Rayong District, Rayong 21150
SAMPLE SOURCE : GCP Plant
SAMPLE POINT : Product / Warehouse
PARAMETER* : L_{eq} 1 hr., L_{eq} 12 hr. & L_{max} SAMPLE NO. : 31038
DETERMINATION METHOD : ISO 11202:2010 MEASURING DATE : 21/08/2024
INSTRUMENT : Integrated Sound Level Meter ; RECEIVED DATE : 21/08/2024
S/N 01147299 : Class 2 REPORTED DATE : 03/09/2024

MEASURING TIME	RESULT		UNIT
	L_{eq} 1 hr.	L_{max}	
09:15 - 10:15	80.5	111.2	dB(A)
10:15 - 11:15	73.9	90.0	dB(A)
11:15 - 12:15	69.4	90.0	dB(A)
12:15 - 13:15	62.7	87.5	dB(A)
13:15 - 14:15	69.0	90.2	dB(A)
14:15 - 15:15	67.5	84.6	dB(A)
15:15 - 16:15	70.3	81.7	dB(A)
16:15 - 17:15	68.0	80.8	dB(A)
17:15 - 18:15	71.1	86.4	dB(A)
18:15 - 19:15	67.0	79.5	dB(A)
19:15 - 20:15	62.8	79.8	dB(A)
20:15 - 21:15	64.2	80.6	dB(A)
L_{eq} 12 hr.	72.2	—	dB(A)
Standard	87 ^{/1}	140 ^{/1} , 115 ^{/2}	dB(A)

REMARK : ^{/1} Notification of The Ministry of Industry B.E. 2546 (2003)^{/2} Regulation of The Ministry of Labour B.E. 2559 (2016)

* Measurement By Ms. Pornnapha Phongphet



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By

03/09/2024

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Request No. LA67-R0878

Report No. R6708-5632

TEST REPORT

CUSTOMER : GC Polyols Company Limited
ADDRESS : Noen Phra Sub-district, Mueang Rayong District, Rayong 21150
SAMPLE SOURCE : GCP Plant
SAMPLE POINT : บริเวณพื้นที่กระบวนการผลิต Shift A (Morning Shift) (POP) (คุณนภวิษฐ์ เกษมกิจชินพัฒน์ ID 26008275)
MEASURING DATE : 21/08/2024 SAMPLE NO. : 31029
RECEIVED DATE : 21/08/2024 SAMPLING TIME : 07:00-19:00
SAMPLING INSTRUMENT : Noise dosimeter : S/N CA8889 REPORTED DATE : 03/09/2024

PARAMETER*	RESULT	STANDARD	UNIT
Time weighted average level (12-hr TWA) [#]	69.4	83 ^{/1}	dB(A)
L _{max} 12 hr	88.6	115 ^{/3}	dB(A)
12 Hour dose	4.16	100 ^{/2}	%
Time weighted average level (8-hr TWA) [#]	71.2	85 ^{/1}	dB(A)

REMARK :

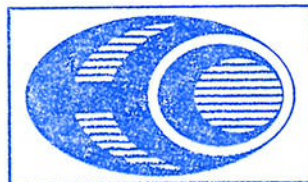
^{/1} Notification of The Department of Labour Protection and Welfare B.E. 2561 (2018)

^{/2} Standard of National Institute for Occupational Safety and Health, Occupational Noise Exposure Revised Criteria 1998

^{/3} Regulation of The Ministry of Labour B.E. 2559 (2016)

[#] Based on Criteria 85 dB(A) ; 3 dB Exchange Rate

* Parameter have License Registration of Department of Labour Protection and Welfare No. 0403-03-2564-0009
(Measurement By Ms. Pornnapa Phongphet)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

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Approved By

03/09/2024

Request No. LA67-R0909

Report No. R6709-0131

TEST REPORT

CUSTOMER : GC Polyols Company Limited
ADDRESS : Noen Phra Sub-district, Mueang Rayong District, Rayong 21150
SAMPLE SOURCE : GCP Plant
SAMPLE POINT : บริเวณพื้นที่กระบวนการผลิต Shift A (Morning Shift) (Manager) (จุดอำพล เพื่อกทอง ID 26008321)
MEASURING DATE : 28/08/2024 SAMPLE NO. : 31334
RECEIVED DATE : 29/08/2024 SAMPLING TIME : 07:00-19:00
SAMPLING INSTRUMENT : Noise dosimeter : S/N CB0956 REPORTED DATE : 05/09/2024

PARAMETER*	RESULT	STANDARD	UNIT
Time weighted average level (12-hr TWA) [#]	74.1	83 ^{/1}	dB(A)
L _{max} 12 hr	89.2	115 ^{/3}	dB(A)
12 Hour dose	12.30	100 ^{/2}	%
Time weighted average level (8-hr TWA) [#]	75.9	85 ^{/1}	dB(A)

REMARK :

- ^{/1} Notification of The Department of Labour Protection and Welfare B.E. 2561 (2018)
- ^{/2} Standard of National Institute for Occupational Safety and Health, Occupational Noise Exposure Revised Criteria 1998
- ^{/3} Regulation of The Ministry of Labour B.E. 2559 (2016)
- [#] Based on Criteria 85 dB(A) ; 3 dB Exchange Rate
- * Parameter have License Registration of Department of Labour Protection and Welfare No. 0403-03-2564-0009
(Measurement By Ms. Pornnapa Phongphet)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By

05/09/2024

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Request No. LA67-R0909

Report No. R6709-0132

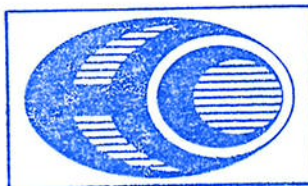
TEST REPORT

CUSTOMER : GC Polyols Company Limited
ADDRESS : Noen Phra Sub-district, Mueang Rayong District, Rayong 21150
SAMPLE SOURCE : GCP Plant
SAMPLE POINT : บริเวณพื้นที่กระบวนการผลิต Shift A (Morning Shift) (PPG) (คุณฐาณูร เสษะกุล ID 26008297)
MEASURING DATE : 28/08/2024 SAMPLE NO. : 31335
RECEIVED DATE : 29/08/2024 SAMPLING TIME : 07:00-19:00
SAMPLING INSTRUMENT : Noise dosimeter : S/N CB0641 REPORTED DATE : 05/09/2024

PARAMETER*	RESULT	STANDARD	UNIT
Time weighted average level (12-hr TWA) [#]	76.4	83 ^{/1}	dB(A)
L _{max} 12 hr	97.8	115 ^{/3}	dB(A)
12 Hour dose	20.62	100 ^{/2}	%
Time weighted average level (8-hr TWA) [#]	78.1	85 ^{/1}	dB(A)

REMARK :

- ^{/1} Notification of The Department of Labour Protection and Welfare B.E. 2561 (2018)
- ^{/2} Standard of National Institute for Occupational Safety and Health, Occupational Noise Exposure Revised Criteria 1998
- ^{/3} Regulation of The Ministry of Labour B.E. 2559 (2016)
- [#] Based on Criteria 85 dB(A) ; 3 dB Exchange Rate
- * Parameter have License Registration of Department of Labour Protection and Welfare No. 0403-03-2564-0009
(Measurement By Ms. Pornnapha Phongphet)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By.

05/09/2024

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Request No. LA67-R0909

Report No. R6709-0133

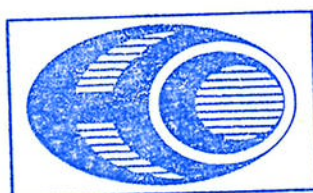
TEST REPORT

CUSTOMER : GC Polyols Company Limited
ADDRESS : Noen Phra Sub-district, Mueang Rayong District, Rayong 21150
SAMPLE SOURCE : GCP Plant
SAMPLE POINT : บริเวณพื้นที่กระบวนการผลิต Shift A (Morning Shift) (PPG / POP) (คุณกิตติศักดิ์ แผลงภักดี ID 26008282)
MEASURING DATE : 28/08/2024 SAMPLE NO. : 31336
RECEIVED DATE : 29/08/2024 SAMPLING TIME : 07:00-19:00
SAMPLING INSTRUMENT : Noise dosimeter : S/N CB0642 REPORTED DATE : 05/09/2024

PARAMETER*	RESULT	STANDARD	UNIT
Time weighted average level (12-hr TWA) [#]	69.7	83 ^{/1}	dB(A)
L _{max} 12 hr	87.3	115 ^{/3}	dB(A)
12 Hour dose	4.43	100 ^{/2}	%
Time weighted average level (8-hr TWA) [#]	71.5	85 ^{/1}	dB(A)

REMARK :

- ^{/1} Notification of The Department of Labour Protection and Welfare B.E. 2561 (2018)
- ^{/2} Standard of National Institute for Occupational Safety and Health, Occupational Noise Exposure Revised Criteria 1998
- ^{/3} Regulation of The Ministry of Labour B.E. 2559 (2016)
- [#] Based on Criteria 85 dB(A) ; 3 dB Exchange Rate
- * Parameter have License Registration of Department of Labour Protection and Welfare No. 0403-03-2564-0009
(Measurement By Ms. Pornnapha Phongphet)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By

05/09/2024

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Request No. LA67-R0909

Report No. R6709-0134

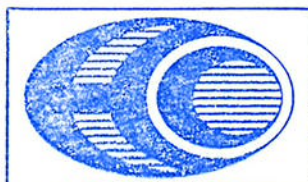
TEST REPORT

CUSTOMER : GC Polyols Company Limited
ADDRESS : Noen Phra Sub-district, Mueang Rayong District, Rayong 21150
SAMPLE SOURCE : GCP Plant
SAMPLE POINT : บริเวณพื้นที่กระบวนการผลิต Shift A (Morning Shift) (PPG) (จุดไกรวี กุลชาติวงศ์ ID 26008284)
MEASURING DATE : 28/08/2024 SAMPLE NO. : 31337
RECEIVED DATE : 29/08/2024 SAMPLING TIME : 07:00-19:00
SAMPLING INSTRUMENT : Noise dosimeter : S/N CB0643 REPORTED DATE : 05/09/2024

PARAMETER*	RESULT	STANDARD	UNIT
Time weighted average level (12-hr TWA) [#]	66.0	83 ^{/1}	dB(A)
L _{max} 12 hr	79.2	115 ^{/3}	dB(A)
12 Hour dose	1.91	100 ^{/2}	%
Time weighted average level (8-hr TWA) [#]	67.8	85 ^{/1}	dB(A)

REMARK :

- ^{/1} Notification of The Department of Labour Protection and Welfare B.E. 2561 (2018)
- ^{/2} Standard of National Institute for Occupational Safety and Health, Occupational Noise Exposure Revised Criteria 1998
- ^{/3} Regulation of The Ministry of Labour B.E. 2559 (2016)
- [#] Based on Criteria 85 dB(A) ; 3 dB Exchange Rate
- * Parameter have License Registration of Department of Labour Protection and Welfare No. 0403-03-2564-0009
(Measurement By Ms. Pornnapha Phongphet)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

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05/09/2024

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Request No. LA67-R0909

Report No. R6709-0137

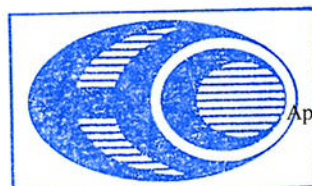
TEST REPORT

CUSTOMER : GC Polyols Company Limited
ADDRESS : Noen Phra Sub-district, Mueang Rayong District, Rayong 21150
SAMPLE SOURCE : GCP Plant
SAMPLE POINT : บริเวณพื้นที่กระบวนการผลิต Shift A (Morning Shift) (POP) (คุณณัฐวุฒิ พันธุ์ทอง ID 26008289)
MEASURING DATE : 28/08/2024 SAMPLE NO. : 31340
RECEIVED DATE : 29/08/2024 SAMPLING TIME : 07:00-19:00
SAMPLING INSTRUMENT : Noise dosimeter : S/N CB0955 REPORTED DATE : 05/09/2024

PARAMETER*	RESULT	STANDARD	UNIT
Time weighted average level (12-hr TWA) [#]	77.0	83 ^{/1}	dB(A)
L _{max} 12 hr	99.7	115 ^{/3}	dB(A)
12 Hour dose	23.76	100 ^{/2}	%
Time weighted average level (8-hr TWA) [#]	78.8	85 ^{/1}	dB(A)

REMARK :

- ^{/1} Notification of The Department of Labour Protection and Welfare B.E. 2561 (2018)
- ^{/2} Standard of National Institute for Occupational Safety and Health, Occupational Noise Exposure Revised Criteria 1998
- ^{/3} Regulation of The Ministry of Labour B.E. 2559 (2016)
- [#] Based on Criteria 85 dB(A) ; 3 dB Exchange Rate
- * Parameter have License Registration of Department of Labour Protection and Welfare No. 0403-03-2564-0009
(Measurement By Ms. Pornnapa Phongphet)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

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05/09/2024

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Request No. LA67-R1004

Report No. R6710-0015

TEST REPORT

CUSTOMER : GC Polyols Company Limited
ADDRESS : Noen Phra Sub-district, Mueang Rayong District, Rayong 21150
SAMPLE SOURCE : GCP Plant
SAMPLE POINT : บริเวณพื้นที่กระบวนการผลิต Shift A (Morning Shift) (PPG) (คุณธีรธำณี ช่อมณี ID 26008299)
MEASURING DATE : 25/09/2024 SAMPLE NO. : 34043
RECEIVED DATE : 25/09/2024 SAMPLING TIME : 07:00-19:00
SAMPLING INSTRUMENT : Noise dosimeter : S/N CB0644 REPORTED DATE : 03/10/2024

PARAMETER*	RESULT	STANDARD	UNIT
Time weighted average level (12-hr TWA) [#]	70.8	83 ^{/1}	dB(A)
L _{max} 12 hr	92.6	115 ^{/3}	dB(A)
12 Hour dose	5.68	100 ^{/2}	%
Time weighted average level (8-hr TWA) [#]	72.5	85 ^{/1}	dB(A)

REMARK :

- ^{/1} Notification of The Department of Labour Protection and Welfare B.E. 2561 (2018)
- ^{/2} Standard of National Institute for Occupational Safety and Health, Occupational Noise Exposure Revised Criteria 1998
- ^{/3} Regulation of The Ministry of Labour B.E. 2559 (2016)
- [#] Based on Criteria 85 dB(A) ; 3 dB Exchange Rate
- * Parameter have License Registration of Department of Labour Protection and Welfare No. 0403-03-2564-0009
(Measurement By Ms. Pornnapha Phongphet)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By..

03/10/2024

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Request No. LA67-R1006

Report No. R6710-0018

TEST REPORT

CUSTOMER : GC Polyols Company Limited
ADDRESS : Noen Phra Sub-district, Mueang Rayong District, Rayong 21150
SAMPLE SOURCE : GCP Plant
SAMPLE POINT : บริเวณพื้นที่กระบวนการผลิต Shift A (Morning Shift) (PPG) (คุณณัฐวุฒิ ดิษยา ID 26008288)
MEASURING DATE : 25/09/2024 SAMPLE NO. : 34046
RECEIVED DATE : 25/09/2024 SAMPLING TIME : 07:00-19:00
SAMPLING INSTRUMENT : Noise dosimeter : S/N CB0643 REPORTED DATE : 03/10/2024

PARAMETER*	RESULT	STANDARD	UNIT
Time weighted average level (12-hr TWA) [#]	80.3	83 ^{/1}	dB(A)
L _{max} 12 hr	94.9	115 ^{/3}	dB(A)
12 Hour dose	50.33	100 ^{/2}	%
Time weighted average level (8-hr TWA) [#]	82.0	85 ^{/1}	dB(A)

REMARK :

^{/1} Notification of The Department of Labour Protection and Welfare B.E. 2561 (2018)

^{/2} Standard of National Institute for Occupational Safety and Health, Occupational Noise Exposure Revised Criteria 1998

^{/3} Regulation of The Ministry of Labour B.E. 2559 (2016)

[#] Based on Criteria 85 dB(A) ; 3 dB Exchange Rate

* Parameter have License Registration of Department of Labour Protection and Welfare No. 0403-03-2564-0009
(Measurement By Ms. Onanong Leewongsak)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By

03/10/2024

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Request No. LA67-R1006

Report No. R6710-0017

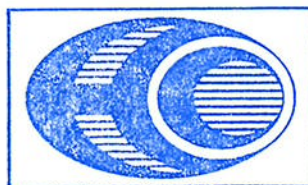
TEST REPORT

CUSTOMER : GC Polyols Company Limited
ADDRESS : Noen Phra Sub-district, Mueang Rayong District, Rayong 21150
SAMPLE SOURCE : GCP Plant
SAMPLE POINT : บริเวณพื้นที่กระบวนการผลิต Shift A (Morning Shift) (PPG) (จุดคณิน กระตุ้นนอก ID 26008281)
MEASURING DATE : 25/09/2024 SAMPLE NO. : 34045
RECEIVED DATE : 25/09/2024 SAMPLING TIME : 07:00-19:00
SAMPLING INSTRUMENT : Noise dosimeter : S/N CB0642 REPORTED DATE : 03/10/2024

PARAMETER*	RESULT	STANDARD	UNIT
Time weighted average level (12-hr TWA) [#]	73.2	83 ^{/1}	dB(A)
L _{max} 12 hr	92.0	115 ^{/3}	dB(A)
12 Hour dose	9.91	100 ^{/2}	%
Time weighted average level (8-hr TWA) [#]	75.0	85 ^{/1}	dB(A)

REMARK :

- ^{/1} Notification of The Department of Labour Protection and Welfare B.E. 2561 (2018)
- ^{/2} Standard of National Institute for Occupational Safety and Health, Occupational Noise Exposure Revised Criteria 1998
- ^{/3} Regulation of The Ministry of Labour B.E. 2559 (2016)
- [#] Based on Criteria 85 dB(A) ; 3 dB Exchange Rate
- * Parameter have License Registration of Department of Labour Protection and Welfare No. 0403-03-2564-0009
(Measurement By Ms. Onanong Leewongsak)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By.

03/10/2024

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Request No. LA67-R0870

Report No. R6708-5438

TEST REPORT

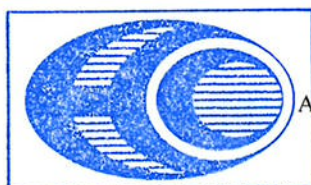
CUSTOMER : GC Polyols Company Limited
 ADDRESS : Noen Phra Sub-district, Mueang Rayong District, Rayong 21150
 SAMPLE SOURCE : GCP Plant
 SAMPLE POINT : บริเวณพื้นที่กระบวนการผลิต Shift B (Morning Shift) (PPG) (คู่อานนท์ โคมส์อ้างค์ ID 26008276)
 MEASURING DATE : 23/08/2024 SAMPLE NO. : 30834
 RECEIVED DATE : 23/08/2024 SAMPLING TIME : 07:00-19:00
 SAMPLING INSTRUMENT : Noise dosimeter : S/N CB0955 REPORTED DATE : 29/08/2024

PARAMETER*	RESULT	STANDARD	UNIT
Time weighted average level (12-hr TWA) [#]	74.2	83 ^{/1}	dB(A)
L _{max} 12 hr	91.6	115 ^{/3}	dB(A)
12 Hour dose	12.60	100 ^{/2}	%
Time weighted average level (8-hr TWA) [#]	76.0	85 ^{/1}	dB(A)

REMARK :

- ^{/1} Notification of The Department of Labour Protection and Welfare B.E. 2561 (2018)
- ^{/2} Standard of National Institute for Occupational Safety and Health, Occupational Noise Exposure Revised Criteria 1998
- ^{/3} Regulation of The Ministry of Labour B.E. 2559 (2016)
- [#] Based on Criteria 85 dB(A) ; 3 dB Exchange Rate
- * Parameter have License Registration of Department of Labour Protection and Welfare No. 0403-03-2564-0009

(Measurement By Ms. Jutarat Suksaget)



Approved By

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

29/08/2024

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Request No. LA67-R0870

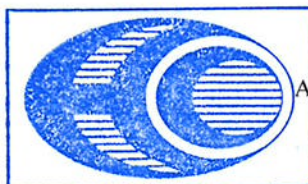
Report No. R6708-5439

TEST REPORT

CUSTOMER : GC Polyols Company Limited
 ADDRESS : Noen Phra Sub-district, Mueang Rayong District, Rayong 21150
 SAMPLE SOURCE : GCP Plant
 SAMPLE POINT : บริเวณพื้นที่กระบวนการผลิต Shift B (Morning Shift) (PPG) (คุณกิจจา ลุนทะจักร์ ID 26008283)
 MEASURING DATE : 23/08/2024 SAMPLE NO. : 30835
 RECEIVED DATE : 23/08/2024 SAMPLING TIME : 07:00-19:00
 SAMPLING INSTRUMENT : Noise dosimeter : S/N CB0957 REPORTED DATE : 29/08/2024

PARAMETER*	RESULT	STANDARD	UNIT
Time weighted average level (12-hr TWA) [#]	81.1	83 ^{/1}	dB(A)
L _{max} 12 hr	95.2	115 ^{/3}	dB(A)
12 Hour dose	60.48	100 ^{/2}	%
Time weighted average level (8-hr TWA) [#]	82.8	85 ^{/1}	dB(A)

REMARK : ^{/1} Notification of The Department of Labour Protection and Welfare B.E. 2561 (2018)
^{/2} Standard of National Institute for Occupational Safety and Health, Occupational Noise Exposure Revised Criteria 1998
^{/3} Regulation of The Ministry of Labour B.E. 2559 (2016)
[#] Based on Criteria 85 dB(A) ; 3 dB Exchange Rate
 * Parameter have License Registration of Department of Labour Protection and Welfare No. 0403-03-2564-0009
 (Measurement By Ms. Jutarat Suksaget)



Approved By

29/08/2024

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Request No. LA67-R0870

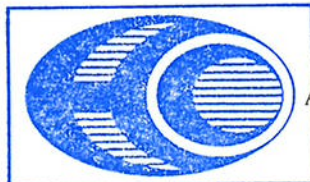
Report No. R6708-5440

TEST REPORT

CUSTOMER : GC Polyols Company Limited
ADDRESS : Noen Phra Sub-district, Mueang Rayong District, Rayong 21150
SAMPLE SOURCE : GCP Plant
SAMPLE POINT : บริเวณพื้นที่กระบวนการผลิต Shift B (Morning Shift) (PPG) (อุณหภูมิห้อง ดีพร้อมใจ ID 26008285)
MEASURING DATE : 23/08/2024 SAMPLE NO. : 30836
RECEIVED DATE : 23/08/2024 SAMPLING TIME : 07:00-19:00
SAMPLING INSTRUMENT : Noise dosimeter : S/N CA8889 REPORTED DATE : 29/08/2024

PARAMETER*	RESULT	STANDARD	UNIT
Time weighted average level (12-hr TWA) [#]	77.4	83 ^{/1}	dB(A)
L _{max} 12 hr	95.7	115 ^{/3}	dB(A)
12 Hour dose	25.79	100 ^{/2}	%
Time weighted average level (8-hr TWA) [#]	79.1	85 ^{/1}	dB(A)

REMARK : ^{/1} Notification of The Department of Labour Protection and Welfare B.E. 2561 (2018)
^{/2} Standard of National Institute for Occupational Safety and Health, Occupational Noise Exposure Revised Criteria 1998
^{/3} Regulation of The Ministry of Labour B.E. 2559 (2016)
[#] Based on Criteria 85 dB(A) ; 3 dB Exchange Rate
* Parameter have License Registration of Department of Labour Protection and Welfare No. 0403-03-2564-0009
(Measurement By Ms. Jutarat Suksaget)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By

29/08/2024

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Request No. LA67-R0870

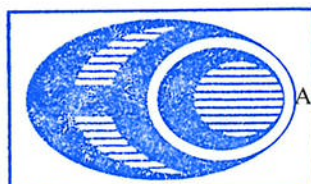
Report No. R6708-5441

TEST REPORT

CUSTOMER : GC Polyols Company Limited
ADDRESS : Noen Phra Sub-district, Mueang Rayong District, Rayong 21150
SAMPLE SOURCE : GCP Plant
SAMPLE POINT : บริเวณพื้นที่กระบวนการผลิต Shift B (Morning Shift) (PPG) (คู่มือรายการ ไซยพันธ์ ID 26008286)
MEASURING DATE : 23/08/2024 SAMPLE NO. : 30837
RECEIVED DATE : 23/08/2024 SAMPLING TIME : 07:00-19:00
SAMPLING INSTRUMENT : Noise dosimeter : S/N CA8888 REPORTED DATE : 29/08/2024

PARAMETER*	RESULT	STANDARD	UNIT
Time weighted average level (12-hr TWA) [#]	69.6	83 ^{/1}	dB(A)
L _{max} 12 hr	94.2	115 ^{/3}	dB(A)
12 Hour dose	4.36	100 ^{/2}	%
Time weighted average level (8-hr TWA) [#]	71.4	85 ^{/1}	dB(A)

REMARK : ^{/1} Notification of The Department of Labour Protection and Welfare B.E. 2561 (2018)
^{/2} Standard of National Institute for Occupational Safety and Health, Occupational Noise Exposure Revised Criteria 1998
^{/3} Regulation of The Ministry of Labour B.E. 2559 (2016)
[#] Based on Criteria 85 dB(A) ; 3 dB Exchange Rate
* Parameter have License Registration of Department of Labour Protection and Welfare No. 0403-03-2564-0009
(Measurement By Ms. Jutarat Suksaget)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By

29/08/2024

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY

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Request No. LA67-R0870

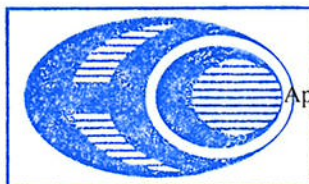
Report No. R6708-5442

TEST REPORT

CUSTOMER : GC Polyols Company Limited
ADDRESS : Noen Phra Sub-district, Mueang Rayong District, Rayong 21150
SAMPLE SOURCE : GCP Plant
SAMPLE POINT : บริเวณพื้นที่กระบวนการผลิต Shift B (Morning Shift) (POP) (คุณจิราพงศ์ บุญน้อย ID 26008280)
MEASURING DATE : 23/08/2024 SAMPLE NO. : 30838
RECEIVED DATE : 23/08/2024 SAMPLING TIME : 07:00-19:00
SAMPLING INSTRUMENT : Noise dosimeter : S/N CB0956 REPORTED DATE : 29/08/2024

PARAMETER*	RESULT	STANDARD	UNIT
Time weighted average level (12-hr TWA) [#]	69.6	83 ^{/1}	dB(A)
L _{max} 12 hr	86.3	115 ^{/3}	dB(A)
12 Hour dose	4.30	100 ^{/2}	%
Time weighted average level (8-hr TWA) [#]	71.3	85 ^{/1}	dB(A)

REMARK : ^{/1} Notification of The Department of Labour Protection and Welfare B.E. 2561 (2018)
^{/2} Standard of National Institute for Occupational Safety and Health, Occupational Noise Exposure Revised Criteria 1998
^{/3} Regulation of The Ministry of Labour B.E. 2559 (2016)
[#] Based on Criteria 85 dB(A) ; 3 dB Exchange Rate
* Parameter have License Registration of Department of Labour Protection and Welfare No. 0403-03-2564-0009
(Measurement By Ms. Jutarat Suksaget)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By

29/08/2024

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Request No. LA67-R0870

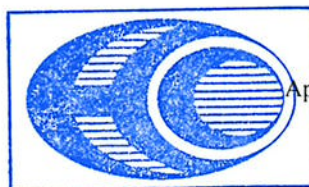
Report No. R6708-5443

TEST REPORT

CUSTOMER : GC Polyols Company Limited
ADDRESS : Noen Phra Sub-district, Mueang Rayong District, Rayong 21150
SAMPLE SOURCE : GCP Plant
SAMPLE POINT : บริเวณพื้นที่กระบวนการผลิต Shift B (Morning Shift) (POP) (คุณภาพวัด ณ ม้วน ID 26008290)
MEASURING DATE : 23/08/2024 SAMPLE NO. : 30839
RECEIVED DATE : 23/08/2024 SAMPLING TIME : 07:00-19:00
SAMPLING INSTRUMENT : Noise dosimeter : S/N CA8886 REPORTED DATE : 29/08/2024

PARAMETER*	RESULT	STANDARD	UNIT
Time weighted average level (12-hr TWA) [#]	75.8	83 ^{/1}	dB(A)
L _{max} 12 hr	90.2	115 ^{/3}	dB(A)
12 Hour dose	17.96	100 ^{/2}	%
Time weighted average level (8-hr TWA) [#]	77.5	85 ^{/1}	dB(A)

REMARK : ^{/1} Notification of The Department of Labour Protection and Welfare B.E. 2561 (2018)
^{/2} Standard of National Institute for Occupational Safety and Health, Occupational Noise Exposure Revised Criteria 1998
^{/3} Regulation of The Ministry of Labour B.E. 2559 (2016)
[#] Based on Criteria 85 dB(A) ; 3 dB Exchange Rate
* Parameter have License Registration of Department of Labour Protection and Welfare No. 0403-03-2564-0009
(Measurement By Ms. Jutarat Suksaget)



Approved By

29/08/2024

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด
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Request No. LA67-R0870

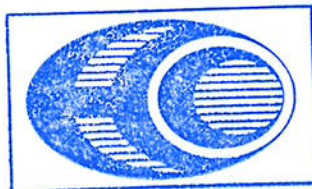
Report No. R6708-5444

TEST REPORT

CUSTOMER : GC Polyols Company Limited
ADDRESS : Noen Phra Sub-district, Mueang Rayong District, Rayong 21150
SAMPLE SOURCE : GCP Plant
SAMPLE POINT : บริเวณพื้นที่กระบวนการผลิต Shift B (Morning Shift) (POP) (คุณวีรณัย เรียนมัน ID 26008300)
MEASURING DATE : 23/08/2024 SAMPLE NO. : 30840
RECEIVED DATE : 23/08/2024 SAMPLING TIME : 07:00-19:00
SAMPLING INSTRUMENT : Noise dosimeter : S/N CA8887 REPORTED DATE : 29/08/2024

PARAMETER*	RESULT	STANDARD	UNIT
Time weighted average level (12-hr TWA) [#]	76.0	83 ^{/1}	dB(A)
L _{max} 12 hr	89.9	115 ^{/3}	dB(A)
12 Hour dose	18.91	100 ^{/2}	%
Time weighted average level (8-hr TWA) [#]	77.8	85 ^{/1}	dB(A)

REMARK : ^{/1} Notification of The Department of Labour Protection and Welfare B.E. 2561 (2018)
^{/2} Standard of National Institute for Occupational Safety and Health, Occupational Noise Exposure Revised Criteria 1998
^{/3} Regulation of The Ministry of Labour B.E. 2559 (2016)
[#] Based on Criteria 85 dB(A) ; 3 dB Exchange Rate
* Parameter have License Registration of Department of Labour Protection and Welfare No. 0403-03-2564-0009
(Measurement By Ms. Jutarat Suksaget)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By

29/08/2024

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Request No. LA67-R0870

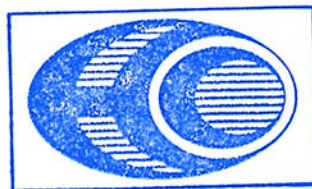
Report No. R6708-5445

TEST REPORT

CUSTOMER : GC Polyols Company Limited
ADDRESS : Noen Phra Sub-district, Mueang Rayong District, Rayong 21150
SAMPLE SOURCE : GCP Plant
SAMPLE POINT : บริเวณพื้นที่กระบวนการผลิต Shift B (Morning Shift) (Manager) (คุณกวิณ แก่นจันทร์ ID 26008090)
MEASURING DATE : 23/08/2024 SAMPLE NO. : 30841
RECEIVED DATE : 23/08/2024 SAMPLING TIME : 07:00-19:00
SAMPLING INSTRUMENT : Noise dosimeter : S/N CB0954 REPORTED DATE : 29/08/2024

PARAMETER*	RESULT	STANDARD	UNIT
Time weighted average level (12-hr TWA) [#]	66.7	83 ^{/1}	dB(A)
L _{max} 12 hr	81.3	115 ^{/3}	dB(A)
12 Hour dose	2.21	100 ^{/2}	%
Time weighted average level (8-hr TWA) [#]	68.4	85 ^{/1}	dB(A)

REMARK : ^{/1} Notification of The Department of Labour Protection and Welfare B.E. 2561 (2018)
^{/2} Standard of National Institute for Occupational Safety and Health, Occupational Noise Exposure Revised Criteria 1998
^{/3} Regulation of The Ministry of Labour B.E. 2559 (2016)
[#] Based on Criteria 85 dB(A) ; 3 dB Exchange Rate
* Parameter have License Registration of Department of Labour Protection and Welfare No. 0403-03-2564-0009
(Measurement By Ms. Jutarat Suksaget)



Approved By

29/08/2024

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด
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Request No. LA67-R1007

Report No. R6710-0019

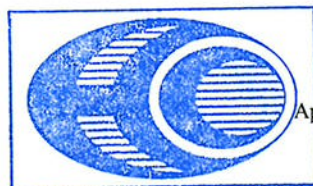
TEST REPORT

CUSTOMER : GC Polyols Company Limited
ADDRESS : Noen Phra Sub-district, Mueang Rayong District, Rayong 21150
SAMPLE SOURCE : GCP Plant
SAMPLE POINT : บริเวณพื้นที่กระบวนการผลิต Shift B (Morning Shift) (POP) (คุณเทวัญ เย็นเขียว ID 26008302)
MEASURING DATE : 01/10/2024 SAMPLE NO. : 34063
RECEIVED DATE : 01/10/2024 SAMPLING TIME : 07:00-19:00
SAMPLING INSTRUMENT : Noise dosimeter : S/N CB0642 REPORTED DATE : 07/10/2024

PARAMETER*	RESULT	STANDARD	UNIT
Time weighted average level (12-hr TWA) [#]	79.8	83 ^{/1}	dB(A)
L _{max} 12 hr	102.8	115 ^{/3}	dB(A)
12 Hour dose	45.42	100 ^{/2}	%
Time weighted average level (8-hr TWA) [#]	81.6	85 ^{/1}	dB(A)

REMARK :

- ^{/1} Notification of The Department of Labour Protection and Welfare B.E. 2561 (2018)
- ^{/2} Standard of National Institute for Occupational Safety and Health, Occupational Noise Exposure Revised Criteria 1998
- ^{/3} Regulation of The Ministry of Labour B.E. 2559 (2016)
- [#] Based on Criteria 85 dB(A) ; 3 dB Exchange Rate
- * Parameter have License Registration of Department of Labour Protection and Welfare No. 0403-03-2564-0009
(Measurement By Ms. Savita Kittinoavarat)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By

07/10/2024

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Request No. LA67-R0909

Report No. R6709-0124

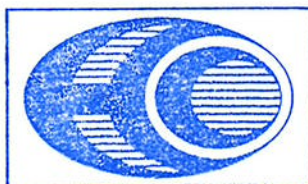
TEST REPORT

CUSTOMER : GC Polyols Company Limited
ADDRESS : Noen Phra Sub-district, Mueang Rayong District, Rayong 21150
SAMPLE SOURCE : GCP Plant
SAMPLE POINT : บริเวณพื้นที่กระบวนการผลิต Shift C (Morning Shift) (Manager) (คุณสมบัติเช็ค ID 26008093)
MEASURING DATE : 26/08/2024 SAMPLE NO. : 31327
RECEIVED DATE : 29/08/2024 SAMPLING TIME : 07:00-19:00
SAMPLING INSTRUMENT : Noise dosimeter : S/N CB0642 REPORTED DATE : 05/09/2024

PARAMETER*	RESULT	STANDARD	UNIT
Time weighted average level (12-hr TWA) [#]	76.6	83 ^{/1}	dB(A)
L _{max} 12 hr	91.7	115 ^{/3}	dB(A)
12 Hour dose	21.67	100 ^{/2}	%
Time weighted average level (8-hr TWA) [#]	78.4	85 ^{/1}	dB(A)

REMARK :

- ^{/1} Notification of The Department of Labour Protection and Welfare B.E. 2561 (2018)
- ^{/2} Standard of National Institute for Occupational Safety and Health, Occupational Noise Exposure Revised Criteria 1998
- ^{/3} Regulation of The Ministry of Labour B.E. 2559 (2016)
- [#] Based on Criteria 85 dB(A) ; 3 dB Exchange Rate
- * Parameter have License Registration of Department of Labour Protection and Welfare No. 0403-03-2564-0009
(Measurement By Ms. Pornnapa Phongphet)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By.

05/09/2024

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Request No. LA67-R0909

Report No. R6709-0125

TEST REPORT

CUSTOMER : GC Polyols Company Limited
ADDRESS : Noen Phra Sub-district, Mueang Rayong District, Rayong 21150
SAMPLE SOURCE : GCP Plant
SAMPLE POINT : บริเวณพื้นที่กระบวนการผลิต Shift C (Morning Shift) (POP) (คุณฉัตรวิไล พันความทุกข์ ID 26008287)
MEASURING DATE : 26/08/2024 SAMPLE NO. : 31328
RECEIVED DATE : 29/08/2024 SAMPLING TIME : 07:00-19:00
SAMPLING INSTRUMENT : Noise dosimeter : S/N CB0954 REPORTED DATE : 05/09/2024

PARAMETER*	RESULT	STANDARD	UNIT
Time weighted average level (12-hr TWA) [#]	51.7	83 ^{/1}	dB(A)
L _{max} 12 hr	87.9	115 ^{/3}	dB(A)
12 Hour dose	0.07	100 ^{/2}	%
Time weighted average level (8-hr TWA) [#]	53.5	85 ^{/1}	dB(A)

REMARK :

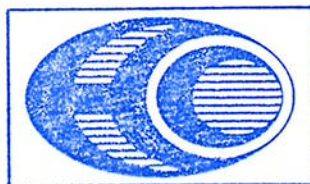
^{/1} Notification of The Department of Labour Protection and Welfare B.E. 2561 (2018)

^{/2} Standard of National Institute for Occupational Safety and Health, Occupational Noise Exposure Revised Criteria 1998

^{/3} Regulation of The Ministry of Labour B.E. 2559 (2016)

[#] Based on Criteria 85 dB(A) ; 3 dB Exchange Rate

* Parameter have License Registration of Department of Labour Protection and Welfare No. 0403-03-2564-0009
(Measurement By Ms. Pornnapa Phongphet)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By.

05/09/2024

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Request No. LA67-R0909

Report No. R6709-0126

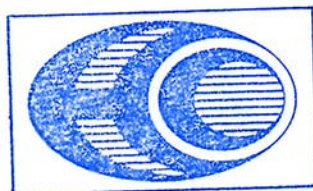
TEST REPORT

CUSTOMER : GC Polyols Company Limited
ADDRESS : Noen Phra Sub-district, Mueang Rayong District, Rayong 21150
SAMPLE SOURCE : GCP Plant
SAMPLE POINT : บริเวณพื้นที่กระบวนการผลิต Shift C (Morning Shift) (POP) (คุณพิสิษฐ์ กัตัญญ ID 26008291)
MEASURING DATE : 26/08/2024 SAMPLE NO. : 31329
RECEIVED DATE : 29/08/2024 SAMPLING TIME : 07:00-19:00
SAMPLING INSTRUMENT : Noise dosimeter : S/N CB0640 REPORTED DATE : 05/09/2024

PARAMETER*	RESULT	STANDARD	UNIT
Time weighted average level (12-hr TWA) [#]	61.8	83 ^{/1}	dB(A)
L _{max} 12 hr	84.1	115 ^{/3}	dB(A)
12 Hour dose	0.72	100 ^{/2}	%
Time weighted average level (8-hr TWA) [#]	63.6	85 ^{/1}	dB(A)

REMARK :

- ^{/1} Notification of The Department of Labour Protection and Welfare B.E. 2561 (2018)
- ^{/2} Standard of National Institute for Occupational Safety and Health, Occupational Noise Exposure Revised Criteria 1998
- ^{/3} Regulation of The Ministry of Labour B.E. 2559 (2016)
- [#] Based on Criteria 85 dB(A) ; 3 dB Exchange Rate
- * Parameter have License Registration of Department of Labour Protection and Welfare No. 0403-03-2564-0009
(Measurement By Ms. Pornnapa Phongphet)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY

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Approved By.

05/09/2024

Request No. LA67-R0909

Report No. R6709-0127

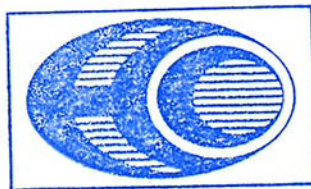
TEST REPORT

CUSTOMER : GC Polyols Company Limited
ADDRESS : Noen Phra Sub-district, Mueang Rayong District, Rayong 21150
SAMPLE SOURCE : GCP Plant
SAMPLE POINT : บริเวณพื้นที่กระบวนการผลิต Shift C (Morning Shift) (POP) (คุณวีระยุทธ ปาระคะ ID 26008305)
MEASURING DATE : 26/08/2024 SAMPLE NO. : 31330
RECEIVED DATE : 29/08/2024 SAMPLING TIME : 07:00-19:00
SAMPLING INSTRUMENT : Noise dosimeter : S/N CB0644 REPORTED DATE : 05/09/2024

PARAMETER*	RESULT	STANDARD	UNIT
Time weighted average level (12-hr TWA) [#]	77.6	83 ^{/1}	dB(A)
L _{max} 12 hr	90.7	115 ^{/3}	dB(A)
12 Hour dose	27.58	100 ^{/2}	%
Time weighted average level (8-hr TWA) [#]	79.4	85 ^{/1}	dB(A)

REMARK :

- ^{/1} Notification of The Department of Labour Protection and Welfare B.E. 2561 (2018)
- ^{/2} Standard of National Institute for Occupational Safety and Health, Occupational Noise Exposure Revised Criteria 1998
- ^{/3} Regulation of The Ministry of Labour B.E. 2559 (2016)
- [#] Based on Criteria 85 dB(A) ; 3 dB Exchange Rate
- * Parameter have License Registration of Department of Labour Protection and Welfare No. 0403-03-2564-0009
(Measurement By Ms. Pornnapa Phongphet)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By.

05/09/2024

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Request No. LA67-R0909

Report No. R6709-0128

TEST REPORT

CUSTOMER : GC Polyols Company Limited
ADDRESS : Noen Phra Sub-district, Mueang Rayong District, Rayong 21150
SAMPLE SOURCE : GCP Plant
SAMPLE POINT : บริเวณพื้นที่กระบวนการผลิต Shift C (Morning Shift) (PPG) (คุณชัชวาลย์ เสมประเสริฐ ID 26008279)
MEASURING DATE : 26/08/2024 SAMPLE NO. : 31331
RECEIVED DATE : 29/08/2024 SAMPLING TIME : 07:00-19:00
SAMPLING INSTRUMENT : Noise dosimeter : S/N CB0641 REPORTED DATE : 05/09/2024

PARAMETER*	RESULT	STANDARD	UNIT
Time weighted average level (12-hr TWA) [#]	64.5	83 ^{/1}	dB(A)
L _{max} 12 hr	85.2	115 ^{/3}	dB(A)
12 Hour dose	1.34	100 ^{/2}	%
Time weighted average level (8-hr TWA) [#]	66.3	85 ^{/1}	dB(A)

REMARK :

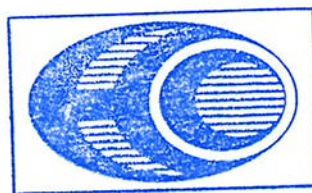
^{/1} Notification of The Department of Labour Protection and Welfare B.E. 2561 (2018)

^{/2} Standard of National Institute for Occupational Safety and Health, Occupational Noise Exposure Revised Criteria 1998

^{/3} Regulation of The Ministry of Labour B.E. 2559 (2016)

[#] Based on Criteria 85 dB(A) ; 3 dB Exchange Rate

* Parameter have License Registration of Department of Labour Protection and Welfare No. 0403-03-2564-0009
(Measurement By Ms. Pornnapa Phongphet)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By

05/09/2024

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Request No. LA67-R0909

Report No. R6709-0129

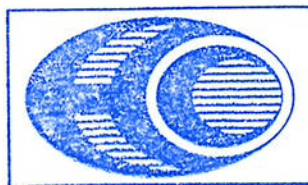
TEST REPORT

CUSTOMER : GC Polyols Company Limited
ADDRESS : Noen Phra Sub-district, Mueang Rayong District, Rayong 21150
SAMPLE SOURCE : GCP Plant
SAMPLE POINT : บริเวณพื้นที่กระบวนการผลิต Shift C (Morning Shift) (PPG) (คุณธนภัทร ประยูรเพชร ID 26008301)
MEASURING DATE : 26/08/2024 SAMPLE NO. : 31332
RECEIVED DATE : 29/08/2024 SAMPLING TIME : 07:00-19:00
SAMPLING INSTRUMENT : Noise dosimeter : S/N CB0955 REPORTED DATE : 05/09/2024

PARAMETER*	RESULT	STANDARD	UNIT
Time weighted average level (12-hr TWA) [#]	73.3	83 ^{/1}	dB(A)
L _{max} 12 hr	87.4	115 ^{/3}	dB(A)
12 Hour dose	10.08	100 ^{/2}	%
Time weighted average level (8-hr TWA) [#]	75.0	85 ^{/1}	dB(A)

REMARK :

- ^{/1} Notification of The Department of Labour Protection and Welfare B.E. 2561 (2018)
- ^{/2} Standard of National Institute for Occupational Safety and Health, Occupational Noise Exposure Revised Criteria 1998
- ^{/3} Regulation of The Ministry of Labour B.E. 2559 (2016)
- [#] Based on Criteria 85 dB(A) ; 3 dB Exchange Rate
- * Parameter have License Registration of Department of Labour Protection and Welfare No. 0403-03-2564-0009
(Measurement By Ms. Pornnapa Phongphet)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By.

05/09/2024

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Request No. LA67-R0909

Report No. R6709-0130

TEST REPORT

CUSTOMER : GC Polyols Company Limited
ADDRESS : Noen Phra Sub-district, Mueang Rayong District, Rayong 21150
SAMPLE SOURCE : GCP Plant
SAMPLE POINT : บริเวณพื้นที่กระบวนการผลิต Shift C (Morning Shift) (PPG) (คุณอนุสรณ์ ยุติธรรม ID 26008277)
MEASURING DATE : 26/08/2024 SAMPLE NO. : 31333
RECEIVED DATE : 29/08/2024 SAMPLING TIME : 07:00-19:00
SAMPLING INSTRUMENT : Noise dosimeter : S/N CB0643 REPORTED DATE : 05/09/2024

PARAMETER*	RESULT	STANDARD	UNIT
Time weighted average level (12-hr TWA) [#]	79.4	83 ^{/1}	dB(A)
L _{max} 12 hr	96.3	115 ^{/3}	dB(A)
12 Hour dose	41.44	100 ^{/2}	%
Time weighted average level (8-hr TWA) [#]	81.2	85 ^{/1}	dB(A)

REMARK :

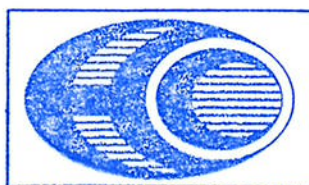
^{/1} Notification of The Department of Labour Protection and Welfare B.E. 2561 (2018)

^{/2} Standard of National Institute for Occupational Safety and Health, Occupational Noise Exposure Revised Criteria 1998

^{/3} Regulation of The Ministry of Labour B.E. 2559 (2016)

[#] Based on Criteria 85 dB(A) ; 3 dB Exchange Rate

* Parameter have License Registration of Department of Labour Protection and Welfare No. 0403-03-2564-0009
(Measurement By Ms. Pornnapa Phongphet)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By

05/09/2024

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Request No. LA67-R1048

Report No. R6710-2389

TEST REPORT

CUSTOMER : GC Polyols Company Limited
ADDRESS : Noen Phra Sub-district, Mueang Rayong District, Rayong 21150
SAMPLE SOURCE : GCP Plant
SAMPLE POINT : บริเวณพื้นที่กระบวนการผลิต Shift C (Morning Shift) (PPG) (คุณประวิทย์ มุ่งตุลาภิรักษ์ ID 26008293)
MEASURING DATE : 11/10/2024 SAMPLE NO. : 37364
RECEIVED DATE : 11/10/2024 SAMPLING TIME : 07:00-19:00
SAMPLING INSTRUMENT : Noise dosimeter : S/N CB1500 REPORTED DATE : 19/10/2024

PARAMETER*	RESULT	STANDARD	UNIT
Time weighted average level (12-hr TWA) [#]	78.7	83 ^{/1}	dB(A)
L _{max} 12 hr	93.1	115 ^{/3}	dB(A)
12 Hour dose	35.04	100 ^{/2}	%
Time weighted average level (8-hr TWA) [#]	80.4	85 ^{/1}	dB(A)

REMARK :

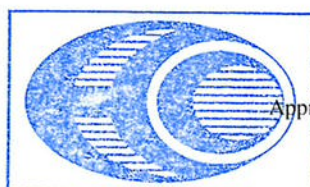
^{/1} Notification of The Department of Labour Protection and Welfare B.E. 2561 (2018)

^{/2} Standard of National Institute for Occupational Safety and Health, Occupational Noise Exposure Revised Criteria 1998

^{/3} Regulation of The Ministry of Labour B.E. 2559 (2016)

[#] Based on Criteria 85 dB(A) ; 3 dB Exchange Rate

* Parameter have License Registration of Department of Labour Protection and Welfare No. 0403-03-2564-0009
(Measurement By Ms. Jutarat Suksaget)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By.

19/10/2024

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Request No. LA67-R1048

Report No. R6710-2390

TEST REPORT

CUSTOMER : GC Polyols Company Limited
ADDRESS : Noen Phra Sub-district, Mueang Rayong District, Rayong 21150
SAMPLE SOURCE : GCP Plant
SAMPLE POINT : บริเวณพื้นที่กระบวนการผลิต Shift C (Morning Shift) (POP) (คุณสมบัติแผ่น ID 26008295)
MEASURING DATE : 11/10/2024 SAMPLE NO. : 37365
RECEIVED DATE : 11/10/2024 SAMPLING TIME : 07:00-19:00
SAMPLING INSTRUMENT : Noise dosimeter : S/N CB1497 REPORTED DATE : 19/10/2024

PARAMETER*	RESULT	STANDARD	UNIT
Time weighted average level (12-hr TWA) [#]	69.2	83 ^{/1}	dB(A)
L _{max} 12 hr	94.8	115 ^{/3}	dB(A)
12 Hour dose	3.92	100 ^{/2}	%
Time weighted average level (8-hr TWA) [#]	70.9	85 ^{/1}	dB(A)

REMARK :

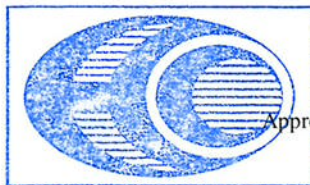
^{/1} Notification of The Department of Labour Protection and Welfare B.E. 2561 (2018)

^{/2} Standard of National Institute for Occupational Safety and Health, Occupational Noise Exposure Revised Criteria 1998

^{/3} Regulation of The Ministry of Labour B.E. 2559 (2016)

[#] Based on Criteria 85 dB(A) ; 3 dB Exchange Rate

* Parameter have License Registration of Department of Labour Protection and Welfare No. 0403-03-2564-0009
(Measurement By Ms. Jutarat Suksaget)



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Approved By

19/10/2024

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Request No. LA67-R0878

Report No. R6708-5629

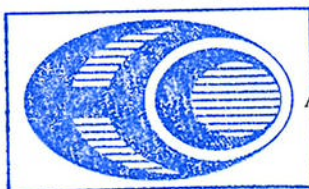
TEST REPORT

CUSTOMER : GC Polyols Company Limited
ADDRESS : Noen Phra Sub-district, Mueang Rayong District, Rayong 21150
SAMPLE SOURCE : GCP Plant
SAMPLE POINT : บริเวณพื้นที่กระบวนการผลิต Shift D (Morning Shift) (POP) (คุณวีรศักดิ์ คงสืบเสาะ ID 26008303)
MEASURING DATE : 21/08/2024 SAMPLE NO. : 31026
RECEIVED DATE : 21/08/2024 SAMPLING TIME : 07:00-19:00
SAMPLING INSTRUMENT : Noise dosimeter : S/N CB0640 REPORTED DATE : 03/09/2024

PARAMETER*	RESULT	STANDARD	UNIT
Time weighted average level (12-hr TWA) [#]	77.3	83 ^{/1}	dB(A)
L _{max} 12 hr	99.7	115 ^{/3}	dB(A)
12 Hour dose	25.33	100 ^{/2}	%
Time weighted average level (8-hr TWA) [#]	79.0	85 ^{/1}	dB(A)

REMARK :

- ^{/1} Notification of The Department of Labour Protection and Welfare B.E. 2561 (2018)
- ^{/2} Standard of National Institute for Occupational Safety and Health, Occupational Noise Exposure Revised Criteria 1998
- ^{/3} Regulation of The Ministry of Labour B.E. 2559 (2016)
- [#] Based on Criteria 85 dB(A) ; 3 dB Exchange Rate
- * Parameter have License Registration of Department of Labour Protection and Welfare No. 0403-03-2564-0009
(Measurement By Ms. Pornnapa Phongphet)



Approved By

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

03/09/2024

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Request No. LA67-R0878

Report No. R6708-5630

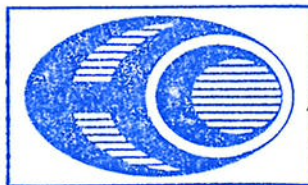
TEST REPORT

CUSTOMER : GC Polyols Company Limited
ADDRESS : Noen Phra Sub-district, Mueang Rayong District, Rayong 21150
SAMPLE SOURCE : GCP Plant
SAMPLE POINT : บริเวณพื้นที่กระบวนการผลิต Shift D (Morning Shift) (POP) (คุณอมรพจน์ ขำรังคีลักษณ์กุล ID 26008274)
MEASURING DATE : 21/08/2024 SAMPLE NO. : 31027
RECEIVED DATE : 21/08/2024 SAMPLING TIME : 07:00-19:00
SAMPLING INSTRUMENT : Noise dosimeter : S/N CB0641 REPORTED DATE : 03/09/2024

PARAMETER*	RESULT	STANDARD	UNIT
Time weighted average level (12-hr TWA) [#]	75.0	83 ^{/1}	dB(A)
L _{max} 12 hr	92.2	115 ^{/3}	dB(A)
12 Hour dose	14.94	100 ^{/2}	%
Time weighted average level (8-hr TWA) [#]	76.7	85 ^{/1}	dB(A)

REMARK :

- ^{/1} Notification of The Department of Labour Protection and Welfare B.E. 2561 (2018)
- ^{/2} Standard of National Institute for Occupational Safety and Health, Occupational Noise Exposure Revised Criteria 1998
- ^{/3} Regulation of The Ministry of Labour B.E. 2559 (2016)
- [#] Based on Criteria 85 dB(A) ; 3 dB Exchange Rate
- * Parameter have License Registration of Department of Labour Protection and Welfare No. 0403-03-2564-0009
(Measurement By Ms. Pornnapa Phongphet)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By

03/09/2024

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Request No. LA67-R0878

Report No. R6708-5631

TEST REPORT

CUSTOMER : GC Polyols Company Limited
ADDRESS : Noen Phra Sub-district, Mueang Rayong District, Rayong 21150
SAMPLE SOURCE : GCP Plant
SAMPLE POINT : บริเวณพื้นที่กระบวนการผลิต Shift D (Morning Shift) (POP) (คุณประสิทธิ์ สราญรัมย์ ID 26008292)
MEASURING DATE : 21/08/2024 SAMPLE NO. : 31028
RECEIVED DATE : 21/08/2024 SAMPLING TIME : 07:00-19:00
SAMPLING INSTRUMENT : Noise dosimeter : S/N CA8887 REPORTED DATE : 03/09/2024

PARAMETER*	RESULT	STANDARD	UNIT
Time weighted average level (12-hr TWA) [#]	62.3	83 ^{/1}	dB(A)
L _{max} 12 hr	89.5	115 ^{/3}	dB(A)
12 Hour dose	0.80	100 ^{/2}	%
Time weighted average level (8-hr TWA) [#]	64.0	85 ^{/1}	dB(A)

REMARK :

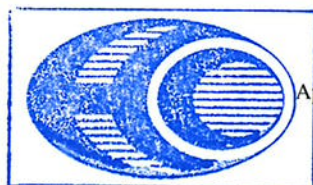
^{/1} Notification of The Department of Labour Protection and Welfare B.E. 2561 (2018)

^{/2} Standard of National Institute for Occupational Safety and Health, Occupational Noise Exposure Revised Criteria 1998

^{/3} Regulation of The Ministry of Labour B.E. 2559 (2016)

[#] Based on Criteria 85 dB(A) ; 3 dB Exchange Rate

* Parameter have License Registration of Department of Labour Protection and Welfare No. 0403-03-2564-0009
(Measurement By Ms. Pornnapa Phongphet)



Approved By.

03/09/2024

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Request No. LA67-R0878

Report No. R6708-5633

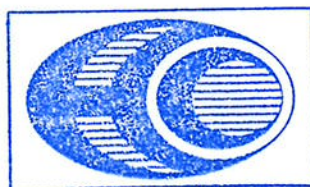
TEST REPORT

CUSTOMER : GC Polyols Company Limited
ADDRESS : Noen Phra Sub-district, Mueang Rayong District, Rayong 21150
SAMPLE SOURCE : GCP Plant
SAMPLE POINT : บริเวณพื้นที่กระบวนการผลิต Shift D (Morning Shift) (PPG) (คุณอรรถพร จันทศรี ID 26008278)
MEASURING DATE : 21/08/2024 SAMPLE NO. : 31030
RECEIVED DATE : 21/08/2024 SAMPLING TIME : 07:00-19:00
SAMPLING INSTRUMENT : Noise dosimeter : S/N CB0642 REPORTED DATE : 03/09/2024

PARAMETER*	RESULT	STANDARD	UNIT
Time weighted average level (12-hr TWA) [#]	80.6	83 ^{/1}	dB(A)
L _{max} 12 hr	98.7	115 ^{/3}	dB(A)
12 Hour dose	55.00	100 ^{/2}	%
Time weighted average level (8-hr TWA) [#]	82.4	85 ^{/1}	dB(A)

REMARK :

- ^{/1} Notification of The Department of Labour Protection and Welfare B.E. 2561 (2018)
- ^{/2} Standard of National Institute for Occupational Safety and Health, Occupational Noise Exposure Revised Criteria 1998
- ^{/3} Regulation of The Ministry of Labour B.E. 2559 (2016)
- [#] Based on Criteria 85 dB(A) ; 3 dB Exchange Rate
- * Parameter have License Registration of Department of Labour Protection and Welfare No. 0403-03-2564-0009
(Measurement By Ms. Pornnapa Phongphet)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By

03/09/2024

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Request No. LA67-R0878

Report No. R6708-5634

TEST REPORT

CUSTOMER : GC Polyols Company Limited
ADDRESS : Noen Phra Sub-district, Mueang Rayong District, Rayong 21150
SAMPLE SOURCE : GCP Plant
SAMPLE POINT : บริเวณพื้นที่กระบวนการผลิต Shift D (Morning Shift) (PPG) (คุณรัฐศาสตร์ ผลกลาง ID 26008294)
MEASURING DATE : 21/08/2024 SAMPLE NO. : 31031
RECEIVED DATE : 21/08/2024 SAMPLING TIME : 07:00-19:00
SAMPLING INSTRUMENT : Noise dosimeter : S/N CB0644 REPORTED DATE : 03/09/2024

PARAMETER*	RESULT	STANDARD	UNIT
Time weighted average level (12-hr TWA) [#]	73.2	83 ^{/1}	dB(A)
L _{max} 12 hr	95.9	115 ^{/3}	dB(A)
12 Hour dose	9.87	100 ^{/2}	%
Time weighted average level (8-hr TWA) [#]	74.9	85 ^{/1}	dB(A)

REMARK :

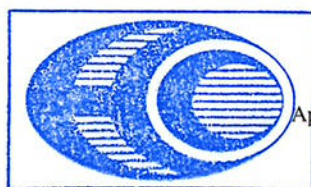
^{/1} Notification of The Department of Labour Protection and Welfare B.E. 2561 (2018)

^{/2} Standard of National Institute for Occupational Safety and Health, Occupational Noise Exposure Revised Criteria 1998

^{/3} Regulation of The Ministry of Labour B.E. 2559 (2016)

[#] Based on Criteria 85 dB(A) ; 3 dB Exchange Rate

* Parameter have License Registration of Department of Labour Protection and Welfare No. 0403-03-2564-0009
(Measurement By Ms. Pornnapha Phongphet)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By

03/09/2024

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Request No. LA67-R0878

Report No. R6708-5635

TEST REPORT

CUSTOMER : GC Polyols Company Limited
ADDRESS : Noen Phra Sub-district, Mueang Rayong District, Rayong 21150
SAMPLE SOURCE : GCP Plant
SAMPLE POINT : บริเวณพื้นที่กระบวนการผลิต Shift D (Morning Shift) (PPG) (คุณธนวินท์ วงศ์เจริญทรัพย์ ID 26008298)
MEASURING DATE : 21/08/2024 SAMPLE NO. : 31032
RECEIVED DATE : 21/08/2024 SAMPLING TIME : 07:00-19:00
SAMPLING INSTRUMENT : Noise dosimeter : S/N CA8888 REPORTED DATE : 03/09/2024

PARAMETER*	RESULT	STANDARD	UNIT
Time weighted average level (12-hr TWA) [#]	72.7	83 ^{/1}	dB(A)
L _{max} 12 hr	89.1	115 ^{/3}	dB(A)
12 Hour dose	8.81	100 ^{/2}	%
Time weighted average level (8-hr TWA) [#]	74.4	85 ^{/1}	dB(A)

REMARK :

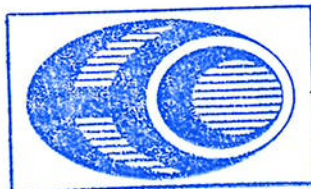
^{/1} Notification of The Department of Labour Protection and Welfare B.E. 2561 (2018)

^{/2} Standard of National Institute for Occupational Safety and Health, Occupational Noise Exposure Revised Criteria 1998

^{/3} Regulation of The Ministry of Labour B.E. 2559 (2016)

[#] Based on Criteria 85 dB(A) ; 3 dB Exchange Rate

* Parameter have License Registration of Department of Labour Protection and Welfare No. 0403-03-2564-0009
(Measurement By Ms. Pornnapa Phongphet)



Approved By.

03/09/2024

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด
REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY
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Request No. LA67-R0878

Report No. R6708-5637

TEST REPORT

CUSTOMER : GC Polyols Company Limited
ADDRESS : Noen Phra Sub-district, Mueang Rayong District, Rayong 21150
SAMPLE SOURCE : GCP Plant
SAMPLE POINT : บริเวณพื้นที่กระบวนการผลิต Shift D (Morning Shift) (Manager) (คุณวีระวัฒน์ แสนทา ID 26008323)
MEASURING DATE : 21/08/2024 SAMPLE NO. : 31034
RECEIVED DATE : 21/08/2024 SAMPLING TIME : 07:00-19:00
SAMPLING INSTRUMENT : Noise dosimeter : S/N CA8886 REPORTED DATE : 03/09/2024

PARAMETER*	RESULT	STANDARD	UNIT
Time weighted average level (12-hr TWA) [#]	51.7	83 ^{/1}	dB(A)
L _{max} 12 hr	80.1	115 ^{/3}	dB(A)
12 Hour dose	0.07	100 ^{/2}	%
Time weighted average level (8-hr TWA) [#]	53.5	85 ^{/1}	dB(A)

REMARK :

^{/1} Notification of The Department of Labour Protection and Welfare B.E. 2561 (2018)

^{/2} Standard of National Institute for Occupational Safety and Health, Occupational Noise Exposure Revised Criteria 1998

^{/3} Regulation of The Ministry of Labour B.E. 2559 (2016)

[#] Based on Criteria 85 dB(A) ; 3 dB Exchange Rate

* Parameter have License Registration of Department of Labour Protection and Welfare No. 0403-03-2564-0009

(Measurement By Ms. Pornnapa Phongphet)



Approved By

03/09/2024

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด
REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY
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Request No. LA67-R1005

Report No. R6710-0016

TEST REPORT

CUSTOMER : GC Polyols Company Limited

ADDRESS : Noen Phra Sub-district, Mueang Rayong District, Rayong 21150

SAMPLE SOURCE : GCP Plant

SAMPLE POINT : บริเวณพื้นที่กระบวนการผลิต Shift D (Morning Shift) (PPG) (คุณสมบัติ พร้อมบันทึก ID 26008296)

MEASURING DATE : 27/09/2024 SAMPLE NO. : 34044

RECEIVED DATE : 27/09/2024 SAMPLING TIME : 07:00-19:00

SAMPLING INSTRUMENT : Noise dosimeter : S/N CB0955 REPORTED DATE : 03/10/2024

PARAMETER*	RESULT	STANDARD	UNIT
Time weighted average level (12-hr TWA) [#]	56.2	83 ^{/1}	dB(A)
L _{max} 12 hr	84.9	115 ^{/3}	dB(A)
12 Hour dose	0.20	100 ^{/2}	%
Time weighted average level (8-hr TWA) [#]	58.0	85 ^{/1}	dB(A)

REMARK :

^{/1} Notification of The Department of Labour Protection and Welfare B.E. 2561 (2018)

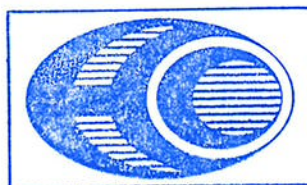
^{/2} Standard of National Institute for Occupational Safety and Health, Occupational Noise Exposure Revised Criteria 1998

^{/3} Regulation of The Ministry of Labour B.E. 2559 (2016)

[#] Based on Criteria 85 dB(A) ; 3 dB Exchange Rate

* Parameter have License Registration of Department of Labour Protection and Welfare No. 0403-03-2564-0009

(Measurement By Ms. Pornnapha Phongphet)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By.

03/10/2024

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Request No. LA67-R1261

Report No. R6712-2014

TEST REPORT

CUSTOMER : GC Polyols Company Limited
ADDRESS : Noen Phra Sub-district, Mueang Rayong District, Rayong 21150
SAMPLE SOURCE : GCP Plant
SAMPLE POINT : บริเวณพื้นที่กระบวนการผลิต Shift D (Morning Shift) (POP) (คุณวีรภัทร วาไรช ID 26008304)
MEASURING DATE : 11/12/2024 SAMPLE NO. : 50301
RECEIVED DATE : 11/12/2024 SAMPLING TIME : 07:00-19:00
SAMPLING INSTRUMENT : Noise dosimeter : S/N CB1500 REPORTED DATE : 16/12/2024

PARAMETER*	RESULT	STANDARD	UNIT
Time weighted average level (12-hr TWA) [#]	81.7	83 ^{/1}	dB(A)
L _{max} 12 hr	101.5	115 ^{/3}	dB(A)
12 Hour dose	70.16	100 ^{/2}	%
Time weighted average level (8-hr TWA) [#]	83.5	85 ^{/1}	dB(A)

REMARK :

- ^{/1} Notification of The Department of Labour Protection and Welfare B.E. 2561 (2018)
- ^{/2} Standard of National Institute for Occupational Safety and Health, Occupational Noise Exposure Revised Criteria 1998
- ^{/3} Regulation of The Ministry of Labour B.E. 2559 (2016)
- [#] Based on Criteria 85 dB(A) ; 3 dB Exchange Rate
- * Parameter have License Registration of Department of Labour Protection and Welfare No. 0403-03-2564-0009
(Measurement By Ms. Onanong Leewongsak)



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Approved By

16/12/2024

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