

ภาคผนวก ค

ใบรับรองผลการตรวจวิเคราะห์

ภาคผนวก ค-1

คุณภาพอากาศในบรรยากาศ



Analysis / Test Report

Client : Thai Polyethylene Co., Ltd.
10, Map Ta Phut Industrial Estate I-1 Road, Map Ta Phut, Muang District,
Rayong Thailand 21150

Lot ID : 22125442

Date Received : Nov 18, 2022

Date Reported : Nov 25, 2022

Report Number : 2461556-1

P/O :

Project Name : Environmental Monitoring

Project Location : TPE Site 1

Page 1 of 2

Sample Number : 22125442-1 to 7
Parameter : Wind Speed / Wind Direction
Location : อาคารสำนักงานของกลุ่มโรงงาน TPE Site#1 (GPS 47P 0731744, 1404885)
Sampling Date : Nov 09 - Nov 16, 2022
Sampling by : Satcha Phetsawaeng

Time	Nov 09 - Nov 10, 2022			Nov 10 - Nov 11, 2022			Nov 11 - Nov 12, 2022			Nov 12 - Nov 13, 2022			Nov 13 - Nov 14, 2022			Nov 14 - Nov 15, 2022			Nov 15 - Nov 16, 2022		
	WS (m/s)	WD (deg)		WS (m/s)	WD (deg)		WS (m/s)	WD (deg)		WS (m/s)	WD (deg)		WS (m/s)	WD (deg)		WS (m/s)	WD (deg)		WS (m/s)	WD (deg)	
09:00 AM - 10:00 AM	1.5	5.0	N	1.7	39.0	NE	0.8	45.0	NE	2.4	122.0	ESE	2.9	77.0	ENE	1.1	217.0	SW	1.2	98.0	E
10:00 AM - 11:00 AM	2.7	10.0	N	1.0	14.0	NNE	1.1	34.0	NE	2.7	87.0	E	3.3	13.0	NNE	0.5	225.0	SW	0.6	175.0	S
11:00 AM - 12:00 PM	2.5	22.0	NNE	1.1	2.0	N	3.1	354.0	N	1.2	126.0	SE	1.5	9.0	N	0.5	254.0	WSW	0.4	187.0	S
12:00 PM - 01:00 PM	2.7	323.0	NW	1.0	34.0	NE	0.8	163.0	SSE	3.7	60.0	ENE	1.5	92.0	E	1.2	136.0	SE	0.8	255.0	WSW
01:00 PM - 02:00 PM	1.0	359.0	N	0.1	-	-	2.0	166.0	SSE	0.2	-	-	1.6	2.0	N	0.9	235.0	SW	0.7	229.0	SW
02:00 PM - 03:00 PM	0.3	338.0	NNW	1.2	251.0	WSW	0.8	137.0	SE	0.8	230.0	SW	1.0	22.0	NNE	0.5	264.0	W	0.8	289.0	WNNW
03:00 PM - 04:00 PM	1.0	199.0	SSW	0.3	234.0	SW	0.7	253.0	WSW	0.7	272.0	W	1.6	33.0	NNE	1.6	185.0	S	1.1	267.0	W
04:00 PM - 05:00 PM	0.1	-	-	1.5	224.0	SW	1.3	271.0	W	0.5	1.0	N	0.5	35.0	NE	0.4	337.0	NNW	0.4	241.0	WSW
05:00 PM - 06:00 PM	1.6	226.0	SW	1.2	239.0	WSW	1.2	221.0	SW	1.4	48.0	NE	1.6	273.0	W	0.1	-	-	1.6	220.0	SW
06:00 PM - 07:00 PM	1.1	62.0	ENE	1.6	15.0	NNE	1.6	249.0	WSW	0.6	15.0	NNE	1.4	53.0	NE	3.3	173.0	S	0.5	265.0	W
07:00 PM - 08:00 PM	1.5	359.0	N	0.4	13.0	NNE	1.4	297.0	WNNW	1.6	341.0	NNW	1.5	18.0	NNE	1.5	119.0	ESE	0.6	225.0	SW
08:00 PM - 09:00 PM	2.4	352.0	N	1.3	49.0	NE	0.5	359.0	N	1.5	83.0	E	0.5	14.0	NNE	1.5	6.0	N	0.4	226.0	SW
09:00 PM - 10:00 PM	0.5	359.0	N	1.2	359.0	N	0.9	46.0	NE	1.6	297.0	WNNW	1.6	39.0	NE	1.6	34.0	NE	1.6	359.0	N
10:00 PM - 11:00 PM	1.1	7.0	N	1.2	194.0	SSW	1.2	359.0	N	0.5	55.0	NE	1.5	93.0	E	0.5	359.0	N	1.5	356.0	N
11:00 PM - 12:00 AM	0.2	-	-	2.1	359.0	N	0.6	359.0	N	1.6	359.0	N	0.6	69.0	ENE	1.6	71.0	ENE	1.3	5.0	N
12:00 AM - 01:00 AM	2.2	359.0	N	1.2	324.0	NW	0.9	56.0	NE	0.5	139.0	SE	1.5	7.0	N	1.4	25.0	NNE	1.0	67.0	ENE
01:00 AM - 02:00 AM	2.4	357.0	N	1.0	31.0	NNE	0.8	40.0	NE	1.4	9.0	N	1.4	343.0	NNW	1.3	359.0	N	0.2	-	-
02:00 AM - 03:00 AM	1.3	359.0	N	1.2	1.0	N	0.5	20.0	NNE	0.6	17.0	NNE	1.6	50.0	NE	0.2	-	-	1.6	326.0	NW
03:00 AM - 04:00 AM	1.0	34.0	NE	0.4	56.0	NE	0.6	44.0	NE	2.7	29.0	NNE	0.7	340.0	NNW	1.6	23.0	NNE	0.4	4.0	N
04:00 AM - 05:00 AM	0.7	2.0	N	1.2	75.0	ENE	0.9	42.0	NE	1.5	359.0	N	0.4	2.0	N	0.5	13.0	NNE	2.6	42.0	NE
05:00 AM - 06:00 AM	1.9	8.0	N	0.1	-	-	0.6	22.0	NNE	0.6	20.0	NNE	0.2	-	-	1.3	50.0	NE	0.7	17.0	NNE
06:00 AM - 07:00 AM	2.8	357.0	N	1.1	42.0	NE	1.1	39.0	NE	0.3	298.0	WNNW	1.1	3.0	N	1.1	359.0	N	1.5	26.0	NNE
07:00 AM - 08:00 AM	2.6	348.0	NNW	2.0	26.0	NNE	1.8	359.0	N	0.7	21.0	NNE	1.3	41.0	NE	1.2	11.0	N	0.8	35.0	NE
08:00 AM - 09:00 AM	2.3	26.0	NNE	2.6	73.0	ENE	1.6	5.0	N	0.7	9.0	N	1.4	33.0	NNE	2.2	0.0	N	2.3	7.0	N

Reference Method : Cup Anemometer & Anodized Aluminium Vane Method

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Approved by

Sarayuth Jittrantont
Assistant General Manager



Analysis / Test Report

Client : Thai Polyethylene Co., Ltd.

10, Map Ta Phut Industrial Estate I-1 Road, Map Ta Phut, Muang District,
Rayong Thailand 21150

P/O :

Project Name : Environmental Monitoring

Project Location : TPE Site 1

Lot ID : 22125442

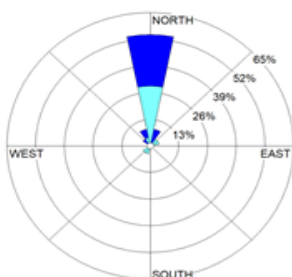
Date Received : Nov 18, 2022

Date Reported : Nov 25, 2022

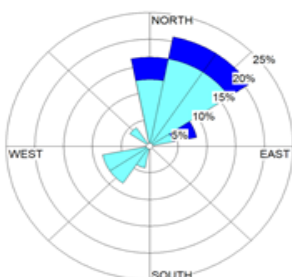
Report Number : 2461556-1

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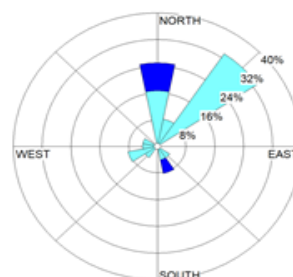
Wind Rose



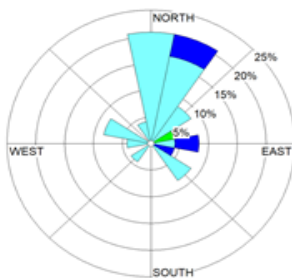
Date : Nov 09-10, 2022



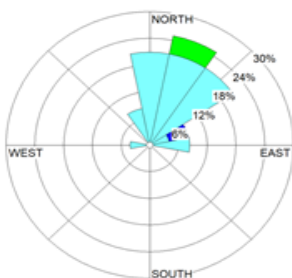
Date : Nov 10-11, 2022



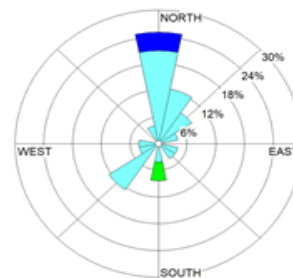
Date : Nov 11-12, 2022



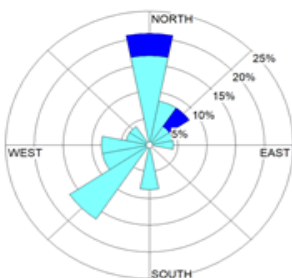
Date : Nov 12-13, 2022



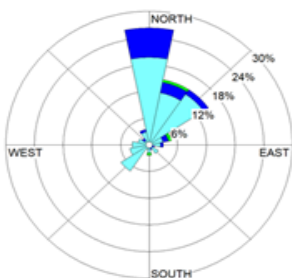
Date : Nov 13-14, 2022



Date : Nov 14-15, 2022



Date : Nov 15-16, 2022



Date : Nov 09-16, 2022

WS(m/s)	%
≥ 10.0	0.00
8.0-10.0	0.00
5.5-8.0	0.00
3.3-5.5	1.78
1.7-3.3	14.29
0.3-1.7	78.57
Calms	5.36

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Approved by

Sarayuth Jitranont
Assistant General Manager



Analysis / Test Report

Client : Thai Polyethylene Co., Ltd.
271, Sukhumvit Road, Tambol Map Ta Phut, Amphur Muang, Rayong Thailand 21150
P/O :
Project Name : Environmental Monitoring
Project Location : TPE Site 3

Lot ID: 22125264

Date Received : Nov 18, 2022
Date Reported : Nov 24, 2022
Report Number : 2461149-1

Page 1 of 7

Sample Number 22125264-1
Sampled Date Nov 09, 2022
Sample Description Air Quality
Location โรงเรียนบ้านมาบตาพุด (โศภณราษฎร์บูรณะ) (GPS 47P 0735355, 1406724)
Date Analysis Commenced Nov 18, 2022
Condition of Sample Drawn into one 10-L air sampling bag

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Method	Testing Location
Air Testing							
Non-Methane Hydrocarbon	09/11/22 - 10/11/22	ppm	-	1.0	<1.0	EPA 40 CFR Part 50, Appendix C	Rayong

Sampled By : Satcha Phetsawaeng

Remark :

- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)

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Approved by

Thanita K.

Thanita Kulsuriwong
Scientist (4)

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Pluakdaeng Rayong 21140 Thailand | PHONE +66 0 3304 8555 | FAX +66 0 3304 8556
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Analysis / Test Report

Client : Thai Polyethylene Co., Ltd.
271, Sukhumvit Road, Tambol Map Ta Phut, Amphur Muang, Rayong Thailand 21150
P/O :
Project Name : Environmental Monitoring
Project Location : TPE Site 3

Lot ID: 22125264

Date Received : Nov 18, 2022

Date Reported : Nov 24, 2022

Report Number : 2461149-1

Page 2 of 7

Sample Number 22125264-2
Sampled Date Nov 10, 2022
Sample Description Air Quality
Location โรงเรียนบ้านมาบตาพุด (โศภนราษฎร์บุรณะ) (GPS 47P 0735355, 1406724)
Date Analysis Commenced Nov 18, 2022
Condition of Sample Drawn into one 10-L air sampling bag

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Method	Testing Location
Air Testing							
Non-Methane Hydrocarbon	10/11/22 - 11/11/22	ppm	-	1.0	<1.0	EPA 40 CFR Part 50, Appendix C	Rayong

Sampled By : Satcha Phetsawaeng

Remark :

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Analysis / Test Report

Client : Thai Polyethylene Co., Ltd.

271, Sukhumvit Road, Tambol Map Ta Phut, Amphur Muang, Rayong Thailand 21150

P/O :

Project Name : Environmental Monitoring

Project Location : TPE Site 3

Lot ID: 22125264

Date Received : Nov 18, 2022

Date Reported : Nov 24, 2022

Report Number : 2461149-1

Page 3 of 7

Sample Number 22125264-3
Sampled Date Nov 11, 2022
Sample Description Air Quality
Location โรงเรียนบ้านมาบตาพุด (โศภนราษฎร์บุรณะ) (GPS 47P 0735355, 1406724)
Date Analysis Commenced Nov 18, 2022
Condition of Sample Drawn into one 10-L air sampling bag

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Method	Testing Location
Air Testing							
Non-Methane Hydrocarbon	11/11/22 - 12/11/22	ppm	-	1.0	1.1	EPA 40 CFR Part 50, Appendix C	Rayong

Sampled By : Satcha Phetsawaeng

Remark :

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Analysis / Test Report

Client : Thai Polyethylene Co., Ltd.

271, Sukhumvit Road, Tambol Map Ta Phut, Amphur Muang, Rayong Thailand 21150

P/O :

Project Name : Environmental Monitoring

Project Location : TPE Site 3

Lot ID: 22125264

Date Received : Nov 18, 2022

Date Reported : Nov 24, 2022

Report Number : 2461149-1

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Sample Number 22125264-4
Sampled Date Nov 12, 2022
Sample Description Air Quality
Location โรงเรียนบ้านมาบตาพุด (โศภนราษฎร์บุรณะ) (GPS 47P 0735355, 1406724)
Date Analysis Commenced Nov 18, 2022
Condition of Sample Drawn into one 10-L air sampling bag

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Method	Testing Location
Air Testing							
Non-Methane Hydrocarbon	12/11/22 - 13/11/22	ppm	-	1.0	1.1	EPA 40 CFR Part 50, Appendix C	Rayong

Sampled By : Satcha Phetsawaeng

Remark :

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Analysis / Test Report

Client : Thai Polyethylene Co., Ltd.

271, Sukhumvit Road, Tambol Map Ta Phut, Amphur Muang, Rayong Thailand 21150

P/O :

Project Name : Environmental Monitoring

Project Location : TPE Site 3

Lot ID: 22125264

Date Received : Nov 18, 2022

Date Reported : Nov 24, 2022

Report Number : 2461149-1

Page 5 of 7

Sample Number 22125264-5
Sampled Date Nov 13, 2022
Sample Description Air Quality
Location โรงเรียนบ้านมาบตาพุด (โศภณราษฎร์บูรณะ) (GPS 47P 0735355, 1406724)
Date Analysis Commenced Nov 18, 2022
Condition of Sample Drawn into one 10-L air sampling bag

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Method	Testing Location
Air Testing							
Non-Methane Hydrocarbon	13/11/22 - 14/11/22	ppm	-	1.0	<1.0	EPA 40 CFR Part 50, Appendix C	Rayong

Sampled By : Satcha Phetsawaeng

Remark :

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Analysis / Test Report

Client : Thai Polyethylene Co., Ltd.

271, Sukhumvit Road, Tambol Map Ta Phut, Amphur Muang, Rayong Thailand 21150

P/O :

Project Name : Environmental Monitoring

Project Location : TPE Site 3

Lot ID: 22125264

Date Received : Nov 18, 2022

Date Reported : Nov 24, 2022

Report Number : 2461149-1

Page 6 of 7

Sample Number 22125264-6
Sampled Date Nov 14, 2022
Sample Description Air Quality
Location โรงเรียนบ้านมาบตาพุด (โศภณราษฎร์บูรณะ) (GPS 47P 0735355, 1406724)
Date Analysis Commenced Nov 18, 2022
Condition of Sample Drawn into one 10-L air sampling bag

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Method	Testing Location
Air Testing							
Non-Methane Hydrocarbon	14/11/22 - 15/11/22	ppm	-	1.0	<1.0	EPA 40 CFR Part 50, Appendix C	Rayong

Sampled By : Satcha Phetsawaeng

Remark :

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Analysis / Test Report

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271, Sukhumvit Road, Tambol Map Ta Phut, Amphur Muang, Rayong Thailand 21150

P/O :

Project Name : Environmental Monitoring

Project Location : TPE Site 3

Lot ID: 22125264

Date Received : Nov 18, 2022

Date Reported : Nov 24, 2022

Report Number : 2461149-1

Page 7 of 7

Sample Number 22125264-7
Sampled Date Nov 15, 2022
Sample Description Air Quality
Location โรงเรียนบ้านมาบตาพุด (โศภนราษฎร์บุรณะ) (GPS 47P 0735355, 1406724)
Date Analysis Commenced Nov 18, 2022
Condition of Sample Drawn into one 10-L air sampling bag

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Method	Testing Location
Air Testing							
Non-Methane Hydrocarbon	15/11/22 - 16/11/22	ppm	-	1.0	<1.0	EPA 40 CFR Part 50, Appendix C	Rayong

Sampled By : Satcha Phetsawaeng

Remark :

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- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)

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Analysis / Test Report

Client : Thai Polyethylene Co., Ltd.
10, Map Ta Phut Industrial Estate I-1 Road, Map Ta Phut, Muang District, Rayong
Thailand 21150

P/O :

Project Name : Environmental Monitoring

Project Location : PP2

Lot ID: 22125287

Date Received : Nov 18, 2022

Date Reported : Nov 24, 2022

Report Number : 2461202-1

Page 1 of 14

Sample Number 22125287-1
Sampled Date Nov 09, 2022
Sample Description Air Quality
Location โรงเรียนบ้านหนองแฟบ (GPS 47P 0729823, 1403307)
Date Analysis Commenced Nov 18, 2022
Condition of Sample Drawn into one 10-L air sampling bag

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Method	Testing Location
Air Testing							
Non-Methane Hydrocarbon	09/11/22 - 10/11/22	ppm	-	1.0	1.4	EPA 40 CFR Part 50, Appendix C	Rayong

Sampled By : Satcha Phetsawaeng

Remark :

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- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)

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Analysis / Test Report

Client : Thai Polyethylene Co., Ltd.
10, Map Ta Phut Industrial Estate I-1 Road, Map Ta Phut, Muang District, Rayong
Thailand 21150

P/O :

Project Name : Environmental Monitoring

Project Location : PP2

Lot ID: 22125287

Date Received : Nov 18, 2022

Date Reported : Nov 24, 2022

Report Number : 2461202-1

Page 2 of 14

Sample Number 22125287-2
Sampled Date Nov 10, 2022
Sample Description Air Quality
Location โรงเรียนบ้านหนองแฟบ (GPS 47P 0729823, 1403307)
Date Analysis Commenced Nov 18, 2022
Condition of Sample Drawn into one 10-L air sampling bag

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Method	Testing Location
Air Testing							
Non-Methane Hydrocarbon	10/11/22 - 11/11/22	ppm	-	1.0	1.7	EPA 40 CFR Part 50, Appendix C	Rayong

Sampled By : Satcha Phetsawaeng

Remark :

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Approved by

Thanita K.

Thanita Kulsuriwong
Scientist (4)

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Pluakdaeng Rayong 21140 Thailand | PHONE +66 0 3304 8555 | FAX +66 0 3304 8556
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10, Map Ta Phut Industrial Estate I-1 Road, Map Ta Phut, Muang District, Rayong
Thailand 21150

P/O :
Project Name : Environmental Monitoring
Project Location : PP2

Lot ID: 22125287

Date Received : Nov 18, 2022
Date Reported : Nov 24, 2022
Report Number : 2461202-1

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Sample Number 22125287-3
Sampled Date Nov 11, 2022
Sample Description Air Quality
Location โรงเรียนบ้านหนองแฟบ (GPS 47P 0729823, 1403307)
Date Analysis Commenced Nov 18, 2022
Condition of Sample Drawn into one 10-L air sampling bag

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Method	Testing Location
Air Testing							
Non-Methane Hydrocarbon	11/11/22 - 12/11/22	ppm	-	1.0	1.2	EPA 40 CFR Part 50, Appendix C	Rayong

Sampled By : Satcha Phetsawaeng

Remark :

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Thailand 21150

P/O :

Project Name : Environmental Monitoring

Project Location : PP2

Lot ID: 22125287

Date Received : Nov 18, 2022

Date Reported : Nov 24, 2022

Report Number : 2461202-1

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Sample Number 22125287-4
Sampled Date Nov 12, 2022
Sample Description Air Quality
Location โรงเรียนบ้านหนองแฟบ (GPS 47P 0729823, 1403307)
Date Analysis Commenced Nov 18, 2022
Condition of Sample Drawn into one 10-L air sampling bag

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Method	Testing Location
Air Testing							
Non-Methane Hydrocarbon	12/11/22 - 13/11/22	ppm	-	1.0	1.3	EPA 40 CFR Part 50, Appendix C	Rayong

Sampled By : Satcha Phetsawaeng

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Scientist (4)

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Thailand 21150

P/O :

Project Name : Environmental Monitoring

Project Location : PP2

Lot ID: 22125287

Date Received : Nov 18, 2022

Date Reported : Nov 24, 2022

Report Number : 2461202-1

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Sample Number 22125287-5
Sampled Date Nov 13, 2022
Sample Description Air Quality
Location โรงเรียนบ้านหนองแฟบ (GPS 47P 0729823, 1403307)
Date Analysis Commenced Nov 18, 2022
Condition of Sample Drawn into one 10-L air sampling bag

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Method	Testing Location
Air Testing							
Non-Methane Hydrocarbon	13/11/22 - 14/11/22	ppm	-	1.0	1.1	EPA 40 CFR Part 50, Appendix C	Rayong

Sampled By : Satcha Phetsawaeng

Remark :

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Thailand 21150

P/O :

Project Name : Environmental Monitoring

Project Location : PP2

Lot ID: 22125287

Date Received : Nov 18, 2022

Date Reported : Nov 24, 2022

Report Number : 2461202-1

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Sample Number 22125287-6
Sampled Date Nov 14, 2022
Sample Description Air Quality
Location โรงเรียนบ้านหนองแฟบ (GPS 47P 0729823, 1403307)
Date Analysis Commenced Nov 18, 2022
Condition of Sample Drawn into one 10-L air sampling bag

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Method	Testing Location
Air Testing							
Non-Methane Hydrocarbon	14/11/22 - 15/11/22	ppm	-	1.0	1.0	EPA 40 CFR Part 50, Appendix C	Rayong

Sampled By : Satcha Phetsawaeng

Remark :

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Scientist (4)

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Thailand 21150

P/O :

Project Name : Environmental Monitoring

Project Location : PP2

Lot ID: 22125287

Date Received : Nov 18, 2022

Date Reported : Nov 24, 2022

Report Number : 2461202-1

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Sample Number 22125287-7
Sampled Date Nov 15, 2022
Sample Description Air Quality
Location โรงเรียนบ้านหนองแฟบ (GPS 47P 0729823, 1403307)
Date Analysis Commenced Nov 18, 2022
Condition of Sample Drawn into one 10-L air sampling bag

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Method	Testing Location
Air Testing							
Non-Methane Hydrocarbon	15/11/22 - 16/11/22	ppm	-	1.0	1.1	EPA 40 CFR Part 50, Appendix C	Rayong

Sampled By : Satcha Phetsawaeng

Remark :

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Scientist (4)

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Thailand 21150

P/O :

Project Name : Environmental Monitoring

Project Location : PP2

Lot ID: 22125287

Date Received : Nov 18, 2022

Date Reported : Nov 24, 2022

Report Number : 2461202-1

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Sample Number 22125287-8
Sampled Date Nov 09, 2022
Sample Description Air Quality
Location อาคารสำนักงานของกลุ่มโรงงาน TPE (Site 1) (GPS 47P 0731744, 1404885)
Date Analysis Commenced Nov 18, 2022
Condition of Sample Drawn into one 10-L air sampling bag

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Method	Testing Location
Air Testing							
Non-Methane Hydrocarbon	09/11/22 - 10/11/22	ppm	-	1.0	1.2	EPA 40 CFR Part 50, Appendix C	Rayong

Sampled By : Satcha Phetsawaeng

Remark :

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Thanita K.

Thanita Kulsuriwong
Scientist (4)

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Pluakdaeng Rayong 21140 Thailand | PHONE +66 0 3304 8555 | FAX +66 0 3304 8556
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P/O :

Project Name : Environmental Monitoring

Project Location : PP2

Lot ID: 22125287

Date Received : Nov 18, 2022

Date Reported : Nov 24, 2022

Report Number : 2461202-1

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Sample Number 22125287-9
Sampled Date Nov 10, 2022
Sample Description Air Quality
Location อาคารสำนักงานของกลุ่มโรงงาน TPE (Site 1) (GPS 47P 0731744, 1404885)
Date Analysis Commenced Nov 18, 2022
Condition of Sample Drawn into one 10-L air sampling bag

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Method	Testing Location
Air Testing							
Non-Methane Hydrocarbon	10/11/22 - 11/11/22	ppm	-	1.0	<1.0	EPA 40 CFR Part 50, Appendix C	Rayong

Sampled By : Satcha Phetsawaeng

Remark :

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Thanita K.

Thanita Kulsuriwong
Scientist (4)

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Pluakdaeng Rayong 21140 Thailand | PHONE +66 0 3304 8555 | FAX +66 0 3304 8556
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P/O :

Project Name : Environmental Monitoring

Project Location : PP2

Lot ID: 22125287

Date Received : Nov 18, 2022

Date Reported : Nov 24, 2022

Report Number : 2461202-1

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Sample Number 22125287-10
Sampled Date Nov 11, 2022
Sample Description Air Quality
Location อาคารสำนักงานของกลุ่มโรงงาน TPE (Site 1) (GPS 47P 0731744, 1404885)
Date Analysis Commenced Nov 18, 2022
Condition of Sample Drawn into one 10-L air sampling bag

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Method	Testing Location
Air Testing							
Non-Methane Hydrocarbon	11/11/22 - 12/11/22	ppm	-	1.0	<1.0	EPA 40 CFR Part 50, Appendix C	Rayong

Sampled By : Satcha Phetsawaeng

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Thanita K.

Thanita Kulsuriwong
Scientist (4)

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Pluakdaeng Rayong 21140 Thailand | PHONE +66 0 3304 8555 | FAX +66 0 3304 8556
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P/O :

Project Name : Environmental Monitoring

Project Location : PP2

Lot ID: 22125287

Date Received : Nov 18, 2022

Date Reported : Nov 24, 2022

Report Number : 2461202-1

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Sample Number 22125287-11
Sampled Date Nov 12, 2022
Sample Description Air Quality
Location อาคารสำนักงานของกลุ่มโรงงาน TPE (Site 1) (GPS 47P 0731744, 1404885)
Date Analysis Commenced Nov 18, 2022
Condition of Sample Drawn into one 10-L air sampling bag

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Method	Testing Location
Air Testing							
Non-Methane Hydrocarbon	12/11/22 - 13/11/22	ppm	-	1.0	<1.0	EPA 40 CFR Part 50, Appendix C	Rayong

Sampled By : Satcha Phetsawaeng

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Thanita K.

Thanita Kulsuriwong
Scientist (4)

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Pluakdaeng Rayong 21140 Thailand | PHONE +66 0 3304 8555 | FAX +66 0 3304 8556
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Thailand 21150

P/O :

Project Name : Environmental Monitoring

Project Location : PP2

Lot ID: 22125287

Date Received : Nov 18, 2022

Date Reported : Nov 24, 2022

Report Number : 2461202-1

Page 12 of 14

Sample Number 22125287-12
Sampled Date Nov 13, 2022
Sample Description Air Quality
Location อาคารสำนักงานของกลุ่มโรงงาน TPE (Site 1) (GPS 47P 0731744, 1404885)
Date Analysis Commenced Nov 18, 2022
Condition of Sample Drawn into one 10-L air sampling bag

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Method	Testing Location
Air Testing							
Non-Methane Hydrocarbon	13/11/22 - 14/11/22	ppm	-	1.0	<1.0	EPA 40 CFR Part 50, Appendix C	Rayong

Sampled By : Satcha Phetsawaeng

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Thanita K.

Thanita Kulsuriwong
Scientist (4)

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Pluakdaeng Rayong 21140 Thailand | PHONE +66 0 3304 8555 | FAX +66 0 3304 8556
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P/O :

Project Name : Environmental Monitoring

Project Location : PP2

Lot ID: 22125287

Date Received : Nov 18, 2022

Date Reported : Nov 24, 2022

Report Number : 2461202-1

Page 13 of 14

Sample Number 22125287-13
Sampled Date Nov 14, 2022
Sample Description Air Quality
Location อาคารสำนักงานของกลุ่มโรงงาน TPE (Site 1) (GPS 47P 0731744, 1404885)
Date Analysis Commenced Nov 18, 2022
Condition of Sample Drawn into one 10-L air sampling bag

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Method	Testing Location
Air Testing							
Non-Methane Hydrocarbon	14/11/22 - 15/11/22	ppm	-	1.0	<1.0	EPA 40 CFR Part 50, Appendix C	Rayong

Sampled By : Satcha Phetsawaeng

Remark :

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Scientist (4)

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P/O :

Project Name : Environmental Monitoring

Project Location : PP2

Lot ID: 22125287

Date Received : Nov 18, 2022

Date Reported : Nov 24, 2022

Report Number : 2461202-1

Page 14 of 14

Sample Number 22125287-14
Sampled Date Nov 15, 2022
Sample Description Air Quality
Location อาคารสำนักงานของกลุ่มโรงงาน TPE (Site 1) (GPS 47P 0731744, 1404885)
Date Analysis Commenced Nov 18, 2022
Condition of Sample Drawn into one 10-L air sampling bag

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Method	Testing Location
Air Testing							
Non-Methane Hydrocarbon	15/11/22 - 16/11/22	ppm	-	1.0	<1.0	EPA 40 CFR Part 50, Appendix C	Rayong

Sampled By : Satcha Phetsawaeng

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Scientist (4)

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Pluakdaeng Rayong 21140 Thailand | PHONE +66 0 3304 8555 | FAX +66 0 3304 8556
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P/O :

Project Name : Environmental Monitoring

Project Location : TPE Site 3

Lot ID: 22125261

Date Received : Nov 18, 2022

Date Reported : Nov 24, 2022

Report Number: 2461146-1

Page 1 of 1

Sample Description Air Quality

Location โรงเรียนบ้านมาตาตุด (โสกธาระราษฎร์) (GPS 47P 0735355, 1406724)

Parameter Nitrogen dioxide (ppm)

Measurement Date Nov 09, 2022 - Nov 16, 2022

Measurement by Satcha Phetsawaeng

	22125261-1 Nov 09, 2022	22125261-2 Nov 10, 2022	22125261-3 Nov 11, 2022	22125261-4 Nov 12, 2022	22125261-5 Nov 13, 2022	22125261-6 Nov 14, 2022	22125261-7 Nov 15, 2022
Time							
11:00 AM - 12:00 PM	0.008	0.008	0.010	0.017	0.016	0.003	0.008
12:00 PM - 01:00 PM	0.008	0.010	0.014	0.016	0.005	0.003	0.010
01:00 PM - 02:00 PM	0.008	0.012	0.014	0.016	0.004	0.005	0.007
02:00 PM - 03:00 PM	0.007	0.013	0.014	0.018	0.005	0.022	0.010
03:00 PM - 04:00 PM	0.008	0.009	0.012	0.014	0.012	0.017	0.004
04:00 PM - 05:00 PM	0.006	0.011	0.009	0.011	0.008	0.017	0.007
05:00 PM - 06:00 PM	0.007	0.017	0.006	0.006	0.006	0.017	0.007
06:00 PM - 07:00 PM	0.009	0.012	0.006	0.003	0.005	0.014	0.010
07:00 PM - 08:00 PM	0.011	0.016	0.004	0.002	0.008	0.010	0.011
08:00 PM - 09:00 PM	0.011	0.014	0.005	0.003	0.020	0.006	0.011
09:00 PM - 10:00 PM	0.011	0.009	0.009	0.004	0.024	0.005	0.010
10:00 PM - 11:00 PM	0.008	0.009	0.007	0.001	0.018	0.004	0.010
11:00 PM - 12:00 AM	0.011	0.008	0.007	0.002	0.011	0.004	0.008
12:00 AM - 01:00 AM	0.012	0.008	0.011	0.001	0.008	0.003	0.012
01:00 AM - 02:00 AM	0.008	0.009	0.009	0.006	0.010	0.006	0.010
02:00 AM - 03:00 AM	0.009	0.012	0.009	0.007	0.011	0.011	0.009
03:00 AM - 04:00 AM	0.007	0.015	0.009	0.010	0.012	0.012	0.007
04:00 AM - 05:00 AM	0.010	0.013	0.011	0.015	0.015	0.014	0.008
05:00 AM - 06:00 AM	0.010	0.011	0.008	0.017	0.016	0.014	0.008
06:00 AM - 07:00 AM	0.008	0.007	0.009	0.014	0.005	0.013	0.011
07:00 AM - 08:00 AM	0.009	0.009	0.013	0.014	0.004	0.010	0.012
08:00 AM - 09:00 AM	0.008	0.017	0.020	0.010	0.003	0.010	0.011
09:00 AM - 10:00 AM	0.012	0.016	0.015	0.009	0.003	0.009	0.005
10:00 AM - 11:00 AM	0.014	0.011	0.012	0.007	0.004	0.010	0.006
Average	0.009	0.012	0.010	0.009	0.010	0.010	0.009
1hr - Maximum	0.014	0.017	0.020	0.018	0.024	0.022	0.012
Standard 1hr - Average	0.170	0.170	0.170	0.170	0.170	0.170	0.170

Standard : Notification of the National Environment Board No. 33, 2009 (B.E. 2552).

Reference Method : US EPA Method Part 50 App. F (Chemiluminescence)

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Saranya C.

Saranya Chalermthamrong

Scientist (4)

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand | PHONE +66 0 2760 3000 | FAX +66 0 2760 3197
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Analysis / Test Report

Client : Thai Polyethylene Co., Ltd.

10, Map Ta Phut Industrial Estate I-1 Road, Map Ta Phut, Muang District, Rayong
Thailand 21150

P/O :

Project Name : Environmental Monitoring

Project Location : PP2

Lot ID: 22125286

Date Received : Nov 18, 2022

Date Reported : Nov 24, 2022

Report Number: 2461197-1

Page 1 of 1

Sample Description Air Quality
Location โรงเรียนบ้านหนองแฟบ (GPS 47P 0729823, 1403307)
Parameter Nitrogen dioxide (ppm)
Measurement Date Nov 09, 2022 - Nov 16, 2022
Measurement by Satcha Phetsawaeng

Time	22125286-1 Nov 09, 2022	22125286-2 Nov 10, 2022	22125286-3 Nov 11, 2022	22125286-4 Nov 12, 2022	22125286-5 Nov 13, 2022	22125286-6 Nov 14, 2022	22125286-7 Nov 15, 2022
10:00 AM - 11:00 AM	0.012	<0.001	0.009	0.001	0.014	0.005	0.012
11:00 AM - 12:00 PM	0.008	0.002	0.012	<0.001	0.018	0.002	0.003
12:00 PM - 01:00 PM	0.005	0.007	0.010	0.001	0.007	0.002	0.003
01:00 PM - 02:00 PM	0.004	0.005	0.002	<0.001	0.005	0.001	0.003
02:00 PM - 03:00 PM	0.008	0.011	0.003	<0.001	0.005	0.002	0.003
03:00 PM - 04:00 PM	0.003	0.012	0.008	0.008	0.001	0.002	0.008
04:00 PM - 05:00 PM	0.010	0.006	0.016	0.015	0.001	0.004	0.010
05:00 PM - 06:00 PM	0.013	0.008	0.016	0.007	0.002	0.007	0.011
06:00 PM - 07:00 PM	0.010	0.006	0.013	0.003	0.003	0.012	0.003
07:00 PM - 08:00 PM	0.007	0.009	0.019	0.004	0.002	0.010	0.004
08:00 PM - 09:00 PM	0.007	0.017	0.013	0.003	0.012	0.009	0.011
09:00 PM - 10:00 PM	0.007	0.014	0.012	0.002	0.010	0.012	0.007
10:00 PM - 11:00 PM	0.014	0.014	0.010	0.008	0.010	0.012	0.004
11:00 PM - 12:00 AM	0.005	0.014	0.014	0.009	0.008	0.013	0.006
12:00 AM - 01:00 AM	0.006	0.017	0.002	0.009	0.006	0.008	0.008
01:00 AM - 02:00 AM	0.002	0.014	<0.001	0.006	0.006	0.008	0.002
02:00 AM - 03:00 AM	0.004	0.004	0.003	0.005	0.005	0.008	0.002
03:00 AM - 04:00 AM	0.007	0.009	0.001	0.008	0.005	0.007	<0.001
04:00 AM - 05:00 AM	0.008	0.020	<0.001	0.010	0.006	0.007	<0.001
05:00 AM - 06:00 AM	0.008	0.018	<0.001	0.010	0.008	0.007	0.002
06:00 AM - 07:00 AM	0.018	0.018	0.002	0.012	0.012	0.013	0.005
07:00 AM - 08:00 AM	0.011	0.013	0.015	0.013	0.012	0.012	0.009
08:00 AM - 09:00 AM	0.013	0.008	0.017	0.015	0.011	0.012	0.009
09:00 AM - 10:00 AM	0.019	0.005	0.004	0.013	0.007	0.015	0.002
Average	0.009	0.010	0.008	0.007	0.007	0.008	0.005
1hr - Maximum	0.019	0.020	0.019	0.015	0.018	0.015	0.012
Standard 1hr - Average	0.170	0.170	0.170	0.170	0.170	0.170	0.170

Standard : Notification of the National Environment Board No. 33, 2009 (B.E. 2552).

Reference Method : US EPAMethod Part 50 App. F (Chemiluminescence)

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Approved by

Saranya C.

Saranya Chalermthamrong

Scientist (4)

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand | PHONE +66 0 2760 3000 | FAX +66 0 2760 3197
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Analysis / Test Report

Client : Thai Polyethylene Co., Ltd.

10, Map Ta Phut Industrial Estate I-1 Road, Map Ta Phut, Muang District, Rayong
Thailand 21150

P/O :

Project Name : Environmental Monitoring

Project Location : PP2

Lot ID: 22125286

Date Received : Nov 18, 2022

Date Reported : Nov 24, 2022

Report Number: 2501412-1

Page 1 of 1

Sample Description	Air Quality
Location	อาคารสำนักงานของกลุ่มโรงงาน TPE (Site 1) (GPS 47P 0731744, 1404885)
Parameter	Nitrogen dioxide (ppm)
Measurement Date	Nov 09, 2022 - Nov 16, 2022
Measurement by	Satcha Phetsawaeng

	22125286-8 Nov 09, 2022	22125286-9 Nov 10, 2022	22125286-10 Nov 11, 2022	22125286-11 Nov 12, 2022	22125286-12 Nov 13, 2022	22125286-13 Nov 14, 2022	22125286-14 Nov 15, 2022
Time							
09:00 AM - 10:00 AM	0.002	0.003	0.008	0.004	0.002	<0.001	0.009
10:00 AM - 11:00 AM	0.002	0.002	0.004	0.006	0.007	0.001	0.006
11:00 AM - 12:00 PM	0.005	0.001	0.004	0.005	0.006	0.004	0.004
12:00 PM - 01:00 PM	0.003	0.002	0.008	0.005	0.006	0.017	0.007
01:00 PM - 02:00 PM	<0.001	0.003	0.006	0.007	0.009	0.004	0.005
02:00 PM - 03:00 PM	0.005	0.005	0.003	0.008	0.008	0.001	0.006
03:00 PM - 04:00 PM	0.002	0.008	0.007	0.009	0.007	<0.001	0.008
04:00 PM - 05:00 PM	0.007	0.004	0.005	0.008	0.003	0.002	0.008
05:00 PM - 06:00 PM	0.002	0.005	0.004	0.008	0.004	0.002	0.005
06:00 PM - 07:00 PM	0.002	0.006	0.006	0.005	0.009	0.008	0.002
07:00 PM - 08:00 PM	0.002	0.005	0.008	0.002	0.012	0.005	0.008
08:00 PM - 09:00 PM	0.002	0.001	0.009	0.004	0.012	0.010	0.004
09:00 PM - 10:00 PM	0.004	0.003	0.007	0.005	0.015	0.008	0.005
10:00 PM - 11:00 PM	0.007	0.006	0.005	0.006	0.021	0.008	0.005
11:00 PM - 12:00 AM	0.010	0.008	0.004	0.007	0.025	0.014	0.011
12:00 AM - 01:00 AM	0.010	0.010	0.007	0.007	0.033	0.014	0.015
01:00 AM - 02:00 AM	0.018	0.014	0.006	0.007	0.008	0.011	0.016
02:00 AM - 03:00 AM	0.015	0.019	0.014	0.003	0.003	0.016	0.020
03:00 AM - 04:00 AM	0.018	0.020	0.020	0.005	0.002	0.017	0.028
04:00 AM - 05:00 AM	0.006	0.005	0.004	0.004	0.003	0.004	0.007
05:00 AM - 06:00 AM	0.005	0.004	0.003	0.004	0.003	0.003	0.005
06:00 AM - 07:00 AM	0.003	0.003	<0.001	0.004	0.003	0.002	0.004
07:00 AM - 08:00 AM	0.003	0.008	0.002	0.003	0.004	0.003	0.003
08:00 AM - 09:00 AM	0.003	0.010	0.003	0.003	0.004	0.003	0.002
Average	0.006	0.006	0.006	0.005	0.009	0.007	0.008
1hr - Maximum	0.018	0.020	0.020	0.009	0.033	0.017	0.028
Standard 1hr - Average	0.170	0.170	0.170	0.170	0.170	0.170	0.170

Standard : Notification of the National Environment Board No. 33, 2009 (B.E. 2552).

Reference Method : US EPA Method Part 50 App. F (Chemiluminescence)

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Approved by

Saranya C.

Saranya Chalermthamrong
Scientist (4)

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand | PHONE +66 0 2760 3000 | FAX +66 0 2760 3197
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ภาคผนวก ค-2

คุณภาพน้ำทิ้ง



Analysis / Test Report

TESTING
No.0042

Client : Thai Polyethylene Co., Ltd.

10, Map Ta Phut Industrial Estate I-1 Road, Map Ta Phut, Muang District, Rayong
Thailand 21150

P/O :

Project Name : Environmental Monitoring

Project Location: PP2

Lot ID: 2253679

Date Received : Jun 10, 2022

Date Reported : Jun 17, 2022

Report Number : 2303487-1

Page 1 of 1

Sample Number	2253679-1
Sampled Date	Jun 10, 2022 10:20 AM
Sample Description	Wastewater
Location	PP2 : หลังผ่าน API Separator
Date Analysis Commenced	Jun 10, 2022
Condition of Sample	Contained in one amber glass bottle, three plastic bottles and two glass vials, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2	<2	≤20	APHA (2017), 5210 B	Rayong
COD	mg/L	1.5	5	19	≤120	APHA (2017), 5220 D	Rayong
Color (at Original pH)	ADMI	-	5	8	≤300	APHA (2017), 2120 F	Rayong
Color (at pH 7.0)	ADMI	-	5	7	≤300	APHA (2017), 2120 F	Rayong
Oil & Grease	mg/L	-	3	<3	≤5	Based on APHA (2017), 5520 B	Rayong
pH at 25 degree C		-	-	7.1	5.5-9.0	Based on APHA (2017), 4500-H (B)	Rayong
Temperature *	Degree C	-	-	33.5	≤40	Based on APHA (2017), 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	316	≤3000	APHA (2017), 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	<5	≤50	APHA (2017), 2540 D	Rayong

Guideline : Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017).

Sampled By : Wanlop Hunchainaow , Thanasoun Namakunna

Remark :

- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.
- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

N. Banchongkit

Narumon Banchongkit
Supervisor

ทะเบียนเลขที่ ว-323-จ-9445

Approved by

D. Changchon

Dej Changchon
Senior Manager

ทะเบียนเลขที่ ว-323-ค-9442

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Analysis / Test Report

Client : Thai Polyethylene Co., Ltd.
10, Map Ta Phut Industrial Estate I-1 Road, Map Ta Phut, Muang District, Rayong
Thailand 21150

P/O :

Project Name : Environmental Monitoring

Project Location : PP2

Lot ID: 2253679

Date Received : Jun 10, 2022

Date Reported : Jun 18, 2022

Report Number : 2303487-2

Page 1 of 1

Sample Number	2253679-1
Sampled Date	Jun 10, 2022 10:20 AM
Sample Description	Wastewater
Location	PP2 : หลังผ่าน API Separator
Date Analysis Commenced	Jun 10, 2022
Condition of Sample	Contained in one amber glass bottle, three plastic bottles and two glass vials, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Chloride as Cl	mg/L	0.5	1	75.0	No Standard	Based on APHA (2017), 4500-Cl (D)	Rayong
Flow rate	m3/s	-	-	0.006	No Standard	Flow meter	Rayong
Total Organic Carbon	mg/L	0.01	0.1	4.88	No Standard	Based on APHA (2017), 5310 B	Bangkok

Guideline : Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017).

Sampled By : Wanlop Hunchainaow , Thanasoun Namakunna

Remark :

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Approved by

Nanthawadee Somboon
Specialist 1



Analysis / Test Report

TESTING

No.0042

Lot ID: 2274986

Date Received : Aug 15, 2022

Date Reported : Aug 23, 2022

Report Number : 2347629-1

Client : Thai Polyethylene Co., Ltd.

10, Map Ta Phut Industrial Estate I-1 Road, Map Ta Phut, Muang District, Rayong
Thailand 21150

P/O :

Project Name : Environmental Monitoring

Project Location: PP2

Page 1 of 1

Sample Number	2274986-1
Sampled Date	Aug 15, 2022 9:55 AM
Sample Description	Wastewater
Location	PP2 : หลังผ่าน API Separator
Date Analysis Commenced	Aug 15, 2022
Condition of Sample	Contained in two glass vials, one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2	2	≤20	APHA (2017), 5210 B	Rayong
COD	mg/L	1.5	5	30	≤120	APHA (2017), 5220 D	Rayong
Color (at Original pH)	ADMI	-	5	11	≤300	APHA (2017), 2120 F	Rayong
Color (at pH 7.0)	ADMI	-	5	11	≤300	APHA (2017), 2120 F	Rayong
Oil & Grease	mg/L	-	3	4	≤5	Based on APHA (2017), 5520 B	Rayong
pH at 25 degree C		-	-	7.4	5.5-9.0	Based on APHA (2017), 4500-H (B)	Rayong
Temperature *	Degree C	-	-	32.3	≤40	Based on APHA (2017), 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	720	≤3000	APHA (2017), 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	5	≤50	APHA (2017), 2540 D	Rayong

Guideline : Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017).

Sampled By : Tanasit Wongsachai , Panupong Manit

Remark :

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Technical Management

N. Banchongkit

Narumon Banchongkit

Supervisor

ทะเบียนเลขที่ จ-323-จ-9445

Approved by

D. Changchon

Dej Changchon

Senior Manager

ทะเบียนเลขที่ จ-323-ค-9442

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Analysis / Test Report

Client : Thai Polyethylene Co., Ltd.
10, Map Ta Phut Industrial Estate I-1 Road, Map Ta Phut, Muang District, Rayong
Thailand 21150

P/O :

Project Name : Environmental Monitoring

Project Location : PP2

Lot ID: 2274986

Date Received : Aug 15, 2022

Date Reported : Aug 23, 2022

Report Number : 2347629-2

Page 1 of 1

Sample Number	2274986-1
Sampled Date	Aug 15, 2022 9:55 AM
Sample Description	Wastewater
Location	PP2 : หลังผ่าน API Separator
Date Analysis Commenced	Aug 15, 2022
Condition of Sample	Contained in two glass vials, one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Chloride as Cl	mg/L	0.5	1	328	No Standard	Based on APHA (2017), 4500-Cl (D)	Rayong
Flow rate	m3/s	-	-	0.005	No Standard	Flow meter	Rayong
Total Organic Carbon	mg/L	0.01	0.1	12.0	No Standard	Based on APHA (2017), 5310 B	Bangkok

Guideline : Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017).

Sampled By : Tanasit Wongsachai , Panupong Mani

Remark :

- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)

Approved by

N. Banchongkit

Narumon Banchongkit
Supervisor

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Analysis / Test Report

TESTING

No.0042

Lot ID: 2297048

Date Received : Sep 02, 2022

Date Reported : Sep 10, 2022

Report Number : 2398393-1

Client : Thai Polyethylene Co., Ltd.

10, Map Ta Phut Industrial Estate I-1 Road, Map Ta Phut, Muang District, Rayong
Thailand 21150

P/O :

Project Name : Environmental Monitoring

Project Location: PP2

Page 1 of 1

Sample Number	2297048-1
Sampled Date	Sep 02, 2022 10:02 AM
Sample Description	Wastewater
Location	PP2 : หลังผ่าน API Separator
Date Analysis Commenced	Sep 02, 2022
Condition of Sample	Contained in two glass vials, one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2	<2	≤20	APHA (2017), 5210 B	Rayong
COD	mg/L	1.5	5	27	≤120	APHA (2017), 5220 D	Rayong
Color (at Original pH)	ADMI	-	5	11	≤300	APHA (2017), 2120 F	Rayong
Color (at pH 7.0)	ADMI	-	5	10	≤300	APHA (2017), 2120 F	Rayong
Oil & Grease	mg/L	-	3	<3	≤5	Based on APHA (2017), 5520 B	Rayong
pH at 25 degree C		-	-	7.6	5.5-9.0	Based on APHA (2017), 4500-H (B)	Rayong
Temperature *	Degree C	-	-	35.9	≤40	Based on APHA (2017), 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	468	≤3000	APHA (2017), 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	5	≤50	APHA (2017), 2540 D	Rayong

Guideline : Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017).

Sampled By : Pathompong Kornasawat , Thanasoun Namakunna

Remark :

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- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

N. Banchongkit

Narumon Banchongkit
Supervisor

ทะเบียนเลขที่ ว-323-จ-9445

Approved by

D. Changchon

Dej Changchon
Senior Manager

ทะเบียนเลขที่ ว-323-ค-9442

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Analysis / Test Report

Client : Thai Polyethylene Co., Ltd.
10, Map Ta Phut Industrial Estate I-1 Road, Map Ta Phut, Muang District, Rayong
Thailand 21150

P/O :

Project Name : Environmental Monitoring

Project Location: PP2

Lot ID: 2297048

Date Received : Sep 02, 2022

Date Reported : Sep 10, 2022

Report Number : 2398393-2

Page 1 of 1

Sample Number	2297048-1
Sampled Date	Sep 02, 2022 10:02 AM
Sample Description	Wastewater
Location	PP2 : หลังผ่าน API Separator
Date Analysis Commenced	Sep 02, 2022
Condition of Sample	Contained in two glass vials, one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Chloride as Cl	mg/L	0.5	1	127	No Standard	Based on APHA (2017), 4500-Cl (D)	Rayong
Flow rate	m3/s	-	-	0.006	No Standard	Flow meter	Rayong
Total Organic Carbon	mg/L	0.01	0.1	7.11	No Standard	Based on APHA (2017), 5310 B	Bangkok

Guideline : Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017).

Sampled By : Pathompong Kornawat , Thanasoun Namakunna

Remark :

- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)

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N. Banchongkit

Narumon Banchongkit
Supervisor

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Pluakdaeng Rayong 21140 Thailand | PHONE +66 0 3304 8555 | FAX +66 0 3304 8556
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Analysis / Test Report

TESTING

No.0042

Lot ID: 22108326

Date Received : Oct 27, 2022

Date Reported : Nov 04, 2022

Report Number : 2421100-1

Client : Thai Polyethylene Co., Ltd.

10, Map Ta Phut Industrial Estate I-1 Road, Map Ta Phut, Muang District, Rayong
Thailand 21150

P/O :

Project Name : Environmental Monitoring

Project Location: PP2

Page 1 of 1

Sample Number	22108326-1
Sampled Date	Oct 27, 2022 9:40 AM
Sample Description	Wastewater
Location	PP2 : หลังผ่าน API Separator
Date Analysis Commenced	Oct 27, 2022
Condition of Sample	Contained in one amber glass bottle, two glass vials and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2	<2	≤20	APHA (2017), 5210 B	Rayong
COD	mg/L	1.5	5	33	≤120	APHA (2017), 5220 D	Rayong
Color (at Original pH)	ADMI	-	5	10	≤300	APHA (2017), 2120 F	Rayong
Color (at pH 7.0)	ADMI	-	5	10	≤300	APHA (2017), 2120 F	Rayong
Oil & Grease	mg/L	-	3	<3	≤5	Based on APHA (2017), 5520 B	Rayong
pH at 25 degree C		-	-	7.4	5.5-9.0	Based on APHA (2017), 4500-H (B)	Rayong
Temperature *	Degree C	-	-	31.7	≤40	Based on APHA (2017), 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	544	≤3000	APHA (2017), 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	<5	≤50	APHA (2017), 2540 D	Rayong

Guideline : Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017).

Sampled By : Pathompong Kornasawat , Panupong Manit

Remark :

- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.
- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

N. Banchongkit

Narumon Banchongkit

Supervisor

ทะเบียนเลขที่ จ-323-จ-9445

Approved by

D. Changchon

Dej Changchon

Senior Manager

ทะเบียนเลขที่ จ-323-ค-9442

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Analysis / Test Report

Client : Thai Polyethylene Co., Ltd.
10, Map Ta Phut Industrial Estate I-1 Road, Map Ta Phut, Muang District, Rayong
Thailand 21150

P/O :

Project Name : Environmental Monitoring

Project Location: PP2

Lot ID: 22108326

Date Received : Oct 27, 2022

Date Reported : Nov 04, 2022

Report Number : 2421100-2

Page 1 of 1

Sample Number	22108326-1						
Sampled Date	Oct 27, 2022 9:40 AM						
Sample Description	Wastewater						
Location	PP2 : หลังผ่าน API Separator						
Date Analysis Commenced	Oct 27, 2022						
Condition of Sample	Contained in one amber glass bottle, two glass vials and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Chloride as Cl	mg/L	0.5	1	131	No Standard	Based on APHA (2017), 4500-Cl (D)	Rayong
Flow rate	m3/s	-	-	0.006	No Standard	Flow meter	Rayong
Total Organic Carbon	mg/L	0.01	0.1	9.32	No Standard	Based on APHA (2017), 5310 B	Bangkok

Guideline : Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017).

Sampled By : Pathompong Kornawat , Panupong Manit

Remark :

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Approved by

N. Banchongkit

Narumon Banchongkit
Supervisor

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Analysis / Test Report

Client : Thai Polyethylene Co., Ltd.

10, Map Ta Phut Industrial Estate I-1 Road, Map Ta Phut, Muang District, Rayong
Thailand 21150

P/O :

Project Name : Environmental Monitoring

Project Location: PP2

TESTING

No.0042

Lot ID: 22125298

Date Received : Nov 04, 2022

Date Reported : Nov 11, 2022

Report Number : 2461227-1

Page 1 of 1

Sample Number	22125298-1
Sampled Date	Nov 04, 2022 10:10 AM
Sample Description	Wastewater
Location	PP2 : หลังผ่าน API Separator
Date Analysis Commenced	Nov 04, 2022
Condition of Sample	Contained in two glass vials, one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2	6	≤20	APHA (2017), 5210 B	Rayong
COD	mg/L	1.5	5	29	≤120	APHA (2017), 5220 D	Rayong
Color (at Original pH)	ADMI	-	5	15	≤300	APHA (2017), 2120 F	Rayong
Color (at pH 7.0)	ADMI	-	5	14	≤300	APHA (2017), 2120 F	Rayong
Oil & Grease	mg/L	-	3	<3	≤5	Based on APHA (2017), 5520 B	Rayong
pH at 25 degree C		-	-	7.8	5.5-9.0	Based on APHA (2017), 4500-H (B)	Rayong
Temperature *	Degree C	-	-	30.8	≤40	Based on APHA (2017), 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	664	≤3000	APHA (2017), 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	9	≤50	APHA (2017), 2540 D	Rayong

Guideline : Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017).

Sampled By : Paramet Sattayakun , Panupong Manit

Remark :

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Technical Management

N. Banchongkit

Narumon Banchongkit

Supervisor

ทะเบียนเลขที่ ว-323-จ-9445

Approved by

D. Changchon

Dej Changchon

Senior Manager

ทะเบียนเลขที่ ว-323-ค-9442

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Analysis / Test Report

Client : Thai Polyethylene Co., Ltd.
10, Map Ta Phut Industrial Estate I-1 Road, Map Ta Phut, Muang District, Rayong
Thailand 21150

P/O :

Project Name : Environmental Monitoring

Project Location: PP2

Lot ID: 22125298

Date Received : Nov 04, 2022

Date Reported : Nov 11, 2022

Report Number : 2461227-2

Page 1 of 1

Sample Number	22125298-1
Sampled Date	Nov 04, 2022 10:10 AM
Sample Description	Wastewater
Location	PP2 : หลังผ่าน API Separator
Date Analysis Commenced	Nov 04, 2022
Condition of Sample	Contained in two glass vials, one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Chloride as Cl	mg/L	0.5	1	202	No Standard	Based on APHA (2017), 4500-Cl (D)	Rayong
Flow rate	m3/s	-	-	0.006	No Standard	Flow meter	Rayong
Total Organic Carbon	mg/L	0.01	0.1	13.5	No Standard	Based on APHA (2017), 5310 B	Bangkok

Guideline : Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017).

Sampled By : Paramet Sattayakun , Panupong Manit

Remark :

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- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)

Approved by

Siriluk P.

Siriluk Puenggang
Supervisor

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Analysis / Test Report

TESTING

No.0042

Lot ID: 22136537

Date Received : Dec 07, 2022

Date Reported : Dec 15, 2022

Report Number : 2487084-1

Client : Thai Polyethylene Co., Ltd.

10, Map Ta Phut Industrial Estate I-1 Road, Map Ta Phut, Muang District, Rayong
Thailand 21150

P/O :

Project Name : Environmental Monitoring

Project Location: PP2

Page 1 of 2

Sample Number	22136537-1
Sampled Date	Dec 07, 2022 9:14 AM
Sample Description	Wastewater
Location	PP2 : หลังผ่าน API Separator
Date Analysis Commenced	Dec 07, 2022
Condition of Sample	Contained in two glass vials, one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2	4	≤20	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B	Rayong
COD	mg/L	1.5	5	26	≤120	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Rayong
Color (at Original pH)	ADMI	-	5	17	≤300	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2120 F	Rayong
Color (at pH 7.0)	ADMI	-	5	15	≤300	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2120 F	Rayong
Oil & Grease *	mg/L	-	3	<3	≤5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
pH at 25 degree C *		-	-	6.8	5.5-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	30.0	≤40	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	700	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	11	≤50	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

Technical Management

N. Banchongkit

Narumon Banchongkit

Supervisor

ทะเบียนเลขที่ จ-323-จ-9445

Approved by

D. Changchon

Dej Changchon

Senior Manager

ทะเบียนเลขที่ จ-323-ค-9442

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Analysis / Test Report

Client : Thai Polyethylene Co., Ltd.

10, Map Ta Phut Industrial Estate I-1 Road, Map Ta Phut, Muang District, Rayong
Thailand 21150

P/O :

Project Name : Environmental Monitoring

Project Location: PP2

TESTING

No.0042

Lot ID: 22136537

Date Received : Dec 07, 2022

Date Reported : Dec 15, 2022

Report Number : 2487084-1

Page 2 of 2

Guideline : Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017).

Sampling By : Wanlop Hunchainaow ทะเบียนเลขที่ ว-323-จ-9457 , Panupong Manit ทะเบียนเลขที่ ว-204-จ-8600

Remark :

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Technical Management

N. Banchongkit

Narumon Banchongkit

Supervisor

ทะเบียนเลขที่ ว-323-จ-9445

Approved by

D. Changchon

Dej Changchon

Senior Manager

ทะเบียนเลขที่ ว-323-ค-9442

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Analysis / Test Report

Client : Thai Polyethylene Co., Ltd.
10, Map Ta Phut Industrial Estate I-1 Road, Map Ta Phut, Muang District, Rayong
Thailand 21150

P/O :

Project Name : Environmental Monitoring

Project Location: PP2

Lot ID: 22136537

Date Received : Dec 07, 2022

Date Reported : Jan 05, 2023

Report Number : 2487084-2

Page 1 of 1

Sample Number	22136537-1						
Sampled Date	Dec 07, 2022 9:14 AM						
Sample Description	Wastewater						
Location	PP2 : หลังผ่าน API Separator						
Date Analysis Commenced	Dec 07, 2022						
Condition of Sample	Contained in two glass vials, one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Chloride as Cl	mg/L	0.5	1	196	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-Cl (D)	Rayong
Flow rate	m3/s	-	-	0.006	No Standard	Flow meter	Rayong
Total Organic Carbon	mg/L	0.01	0.1	10.1	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5310 B	Bangkok

Guideline : Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017).

Sampling By : Wanlop Hunchainaow ทะเบียนเลขที่ ว-323-จ-9457 , Panupong Manit ทะเบียนเลขที่ ว-204-จ-8600

Remark :

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Approved by

Narin Saiseng
Supervisor

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Analysis / Test Report

TESTING
No.0042

Client : Thai Polyethylene Co., Ltd.
10, Map Ta Phut Industrial Estate I-1 Road, Map Ta Phut, Muang District, Rayong
Thailand 21150
P/O : PMM-SCGCH-2019-343
Project Name : Environmental Monitoring
Project Location : PP2_S1

Lot ID: 2273652
Date Received : Jul 08, 2022
Date Reported : Aug 08, 2022
Report Number : 2344859-1 C4

Page 1 of 1

Sample Number	2273652-1						
Sampling Date	Jul 08, 2022 11:00 AM						
Sample Description	Wastewater						
Location	รางระบายน้ำรวม						
Date Analysis Commenced	Jul 08, 2022						
Condition of Sample	Contained in one amber glass bottle, four glass vials and three plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA)						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2	<2	≤20	APHA (2017), 5210 B	Rayong
COD	mg/L	1.5	5	29	≤120	APHA (2017), 5220 D	Rayong
Color (at Original pH)	ADMI	-	5	44	≤300	APHA (2017), 2120 F	Rayong
Color (at pH 7.0)	ADMI	-	5	40	≤300	APHA (2017), 2120 F	Rayong
Oil & Grease	mg/L	-	3	<3	≤5	Based on APHA (2017), 5520 B	Rayong
pH at 25 degree C		-	-	7.9	5.5-9.0	Based on APHA (2017), 4500-H (B)	Rayong
Temperature *	Degree C	-	-	32.7	≤40	Based on APHA (2017), 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	708	≤3000	APHA (2017), 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	5	≤50	APHA (2017), 2540 D	Rayong

Guideline: Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017).

Sampling By : Paramet Sattayakun , Thanasoun Namakunna

Remark :

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- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.

Technical Management

N. Banchongkit

Narumon Banchongkit
Supervisor
ทะเบียนเลขที่ ว-323-จ-9445

Approved by

D. Changchon

Dej Changchon
Manager
ทะเบียนเลขที่ ว-225-ค-5283

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Analysis / Test Report

Client : Thai Polyethylene Co., Ltd.
10, Map Ta Phut Industrial Estate I-1 Road, Map Ta Phut, Muang District, Rayong
Thailand 21150
P/O : PMM-SCGCH-2019-343
Project Name : Environmental Monitoring
Project Location: PP2_S1

Lot ID: 2273652

Date Received : Jul 08, 2022
Date Reported : Aug 08, 2022
Report Number : 2344859-2 C4

Page 1 of 1

Sample Number	2273652-1						
Sampling Date	Jul 08, 2022 11:00 AM						
Sample Description	Wastewater						
Location	รางระบายน้ำรวม						
Date Analysis Commenced	Jul 08, 2022						
Condition of Sample	Contained in one amber glass bottle, four glass vials and three plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA)						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Chloride as Cl	mg/L	0.5	1	137	No Standard	Based on APHA (2017), 4500-Cl (D)	Rayong
Total Organic Carbon	mg/L	0.01	0.1	11.5	No Standard	Based on APHA (2017), 5310 B	Bangkok

Guideline: Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017).

Sampling By : Paramet Sattayakun , Thanasoun Namakunna

Remark :

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- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)

Approved by

Siriluk P.

Siriluk Puengpang
Supervisor

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Analysis / Test Report

TESTING
No.0042

Client : Thai Polyethylene Co., Ltd.
10, Map Ta Phut Industrial Estate I-1 Road, Map Ta Phut, Muang District, Rayong
Thailand 21150
P/O : PMM-SCGCH-2019-343
Project Name : Environmental Monitoring
Project Location : PP2_S1

Lot ID: 2273652
Date Received : Jul 08, 2022
Date Reported : Aug 08, 2022
Report Number : 2344859-1 C4

Page 1 of 1

Sample Number	2273652-1						
Sampling Date	Jul 08, 2022 11:00 AM						
Sample Description	Wastewater						
Location	รางระบายน้ำรวม						
Date Analysis Commenced	Jul 08, 2022						
Condition of Sample	Contained in one amber glass bottle, four glass vials and three plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA)						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2	<2	≤20	APHA (2017), 5210 B	Rayong
COD	mg/L	1.5	5	29	≤120	APHA (2017), 5220 D	Rayong
Color (at Original pH)	ADMI	-	5	44	≤300	APHA (2017), 2120 F	Rayong
Color (at pH 7.0)	ADMI	-	5	40	≤300	APHA (2017), 2120 F	Rayong
Oil & Grease	mg/L	-	3	<3	≤5	Based on APHA (2017), 5520 B	Rayong
pH at 25 degree C		-	-	7.9	5.5-9.0	Based on APHA (2017), 4500-H (B)	Rayong
Temperature *	Degree C	-	-	32.7	≤40	Based on APHA (2017), 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	708	≤3000	APHA (2017), 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	5	≤50	APHA (2017), 2540 D	Rayong

Guideline: Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017).

Sampling By : Paramet Sattayakun , Thanasoun Namakunna

Remark :

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- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
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Technical Management

N. Banchongkit

Narumon Banchongkit
Supervisor
ทะเบียนเลขที่ ว-323-จ-9445

Approved by

D. Changchon

Dej Changchon
Manager
ทะเบียนเลขที่ ว-225-ค-5283

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Analysis / Test Report

Client : Thai Polyethylene Co., Ltd.
10, Map Ta Phut Industrial Estate I-1 Road, Map Ta Phut, Muang District, Rayong
Thailand 21150
P/O : PMM-SCGCH-2019-343
Project Name : Environmental Monitoring
Project Location : PP2_S1

Lot ID: 2273652

Date Received : Jul 08, 2022
Date Reported : Aug 08, 2022
Report Number : 2344859-2 C4

Page 1 of 1

Sample Number	2273652-1						
Sampling Date	Jul 08, 2022 11:00 AM						
Sample Description	Wastewater						
Location	รางระบายน้ำรวม						
Date Analysis Commenced	Jul 08, 2022						
Condition of Sample	Contained in one amber glass bottle, four glass vials and three plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA)						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Chloride as Cl	mg/L	0.5	1	137	No Standard	Based on APHA (2017), 4500-Cl (D)	Rayong
Total Organic Carbon	mg/L	0.01	0.1	11.5	No Standard	Based on APHA (2017), 5310 B	Bangkok

Guideline: Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017).

Sampling By : Paramet Sattayakun , Thanasoun Namakunna

Remark :

- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)

Approved by

Siriluk P.

Siriluk Puengpang
Supervisor

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Analysis / Test Report

TESTING
No.0009

Client : Thai Polyethylene Co., Ltd.
10, Map Ta Phut Industrial Estate I-1 Road, Map Ta Phut, Muang District, Rayong
Thailand 21150
P/O : PMM-SCGCH-2019-343
Project Name : Environmental Monitoring
Project Location : PP2_S1

Lot ID: 2297011
Date Received : Sep 02, 2022
Date Reported : Oct 06, 2022
Report Number : 2398234-1 C4

Page 1 of 1

Sample Number : 2297011-1
Sampling Date : Sep 02, 2022 11:25 AM
Sample Description : Wastewater
Location : รางระบายน้ำรวม
Date Analysis Commenced : Sep 02, 2022
Condition of Sample : Contained in four glass vials, one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2	<2	≤20	APHA (2017), 5210 B	Rayong
COD	mg/L	1.5	5	24	≤120	APHA (2017), 5220 D	Rayong
Color (at Original pH)	ADMI	-	5	12	≤300	APHA (2017), 2120 F	Rayong
Color (at pH 7.0)	ADMI	-	5	11	≤300	APHA (2017), 2120 F	Rayong
Oil & Grease	mg/L	-	3	<3	≤5	Based on APHA (2017), 5520 B	Rayong
pH at 25 degree C		-	-	7.6	5.5-9.0	Based on APHA (2017), 4500-H (B)	Rayong
Temperature *	Degree C	-	-	32.5	≤40	Based on APHA (2017), 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	362	≤3000	APHA (2017), 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	15	≤50	APHA (2017), 2540 D	Rayong

Guideline: Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017).

Sampling By : Pathompong Kornawat , Thanasoun Namakunna

Remark :

- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.

Technical Management

N. Banchongkit

Narumon Banchongkit
Supervisor
ทะเบียนเลขที่ ว-323-จ-9445

Approved by

Kanokkorn Anek

Kanokkorn Anek
Senior Manager
ทะเบียนเลขที่ ว-204-ค-6111

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Analysis / Test Report

Client : Thai Polyethylene Co., Ltd.
10, Map Ta Phut Industrial Estate I-1 Road, Map Ta Phut, Muang District, Rayong
Thailand 21150
P/O : PMM-SCGCH-2019-343
Project Name : Environmental Monitoring
Project Location: PP2_S1

Lot ID: 2297011

Date Received : Sep 02, 2022
Date Reported : Oct 06, 2022
Report Number : 2398234-2 C4

Page 1 of 1

Sample Number	2297011-1						
Sampling Date	Sep 02, 2022 11:25 AM						
Sample Description	Wastewater						
Location	รางระบายน้ำรวม						
Date Analysis Commenced	Sep 02, 2022						
Condition of Sample	Contained in four glass vials, one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Chloride as Cl	mg/L	0.5	1	89.7	No Standard	Based on APHA (2017), 4500-Cl (D)	Rayong
Total Organic Carbon	mg/L	0.01	0.1	5.83	No Standard	Based on APHA (2017), 5310 B	Bangkok

Guideline: Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017).

Sampling By : Pathompong Kornawat , Thanasoun Namakunna

Remark :

- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)

Approved by

Siriluk P.

Siriluk Puengpang
Supervisor

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Analysis / Test Report

TESTING
No.0042

Client : Thai Polyethylene Co., Ltd.
10, Map Ta Phut Industrial Estate I-1 Road, Map Ta Phut, Muang District, Rayong
Thailand 21150
P/O : PMM-SCGCH-2019-343
Project Name : Environmental Monitoring
Project Location : PP2_S1

Lot ID: 22108158
Date Received : Oct 07, 2022
Date Reported : Nov 08, 2022
Report Number : 2420921-1 C4

Page 1 of 1

Sample Number	22108158-1						
Sampling Date	Oct 07, 2022 10:20 AM						
Sample Description	Wastewater						
Location	รางระบายน้ำรวม						
Date Analysis Commenced	Oct 07, 2022						
Condition of Sample	Contained in four glass vials, one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2	<2	≤20	APHA (2017), 5210 B	Rayong
COD	mg/L	1.5	5	17	≤120	APHA (2017), 5220 D	Rayong
Color (at Original pH)	ADMI	-	5	21	≤300	APHA (2017), 2120 F	Rayong
Color (at pH 7.0)	ADMI	-	5	19	≤300	APHA (2017), 2120 F	Rayong
Oil & Grease	mg/L	-	3	<3	≤5	Based on APHA (2017), 5520 B	Rayong
pH at 25 degree C		-	-	8.0	5.5-9.0	Based on APHA (2017), 4500-H (B)	Rayong
Temperature *	Degree C	-	-	31.9	≤40	Based on APHA (2017), 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	400	≤3000	APHA (2017), 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	<5	≤50	APHA (2017), 2540 D	Rayong

Guideline: Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017).

Sampling By : Pathompong Kornawat , Panupong Mani

Remark :

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Technical Management

N. Banchongkit

Narumon Banchongkit
Supervisor
ทะเบียนเลขที่ ว-323-จ-9445

Approved by

D. Changchon

Dej Changchon
Manager
ทะเบียนเลขที่ ว-225-ค-5283

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Analysis / Test Report

Client : Thai Polyethylene Co., Ltd.
10, Map Ta Phut Industrial Estate I-1 Road, Map Ta Phut, Muang District, Rayong
Thailand 21150
P/O : PMM-SCGCH-2019-343
Project Name : Environmental Monitoring
Project Location: PP2_S1

Lot ID: 22108158

Date Received : Oct 07, 2022
Date Reported : Nov 08, 2022
Report Number : 2420921-2 C4

Page 1 of 1

Sample Number	22108158-1						
Sampling Date	Oct 07, 2022 10:20 AM						
Sample Description	Wastewater						
Location	รางระบายน้ำรวม						
Date Analysis Commenced	Oct 07, 2022						
Condition of Sample	Contained in four glass vials, one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Chloride as Cl	mg/L	0.5	1	111	No Standard	Based on APHA (2017), 4500-Cl (D)	Rayong
Total Organic Carbon	mg/L	0.01	0.1	7.19	No Standard	Based on APHA (2017), 5310 B	Bangkok

Guideline: Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017).

Sampling By : Pathompong Kornasawat , Panupong Manit

Remark :

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Approved by

Narin Saiseng
Supervisor

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Analysis / Test Report

TESTING
No.0042

Client : Thai Polyethylene Co., Ltd.
10, Map Ta Phut Industrial Estate I-1 Road, Map Ta Phut, Muang District, Rayong
Thailand 21150
P/O : PMM-SCGCH-2019-343
Project Name : Environmental Monitoring
Project Location : PP2_S1

Lot ID: 22124982
Date Received : Nov 04, 2022
Date Reported : Nov 15, 2022
Report Number : 2460389-1 C4

Page 1 of 1

Sample Number : 22124982-1
Sampling Date : Nov 04, 2022 10:55 AM
Sample Description : Wastewater
Location : รางระบายน้ำรวม
Date Analysis Commenced : Nov 04, 2022
Condition of Sample : Contained in four glass vials, one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2	5	≤20	APHA (2017), 5210 B	Rayong
COD	mg/L	1.5	5	26	≤120	APHA (2017), 5220 D	Rayong
Color (at Original pH)	ADMI	-	5	9	≤300	APHA (2017), 2120 F	Rayong
Color (at pH 7.0)	ADMI	-	5	8	≤300	APHA (2017), 2120 F	Rayong
Oil & Grease	mg/L	-	3	<3	≤5	Based on APHA (2017), 5520 B	Rayong
pH at 25 degree C		-	-	7.6	5.5-9.0	Based on APHA (2017), 4500-H (B)	Rayong
Temperature *	Degree C	-	-	29.8	≤40	Based on APHA (2017), 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	552	≤3000	APHA (2017), 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	16	≤50	APHA (2017), 2540 D	Rayong

Guideline: Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017).

Sampling By : Paramet Sattayakun , Panupong Manit

Remark :

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Technical Management

N. Banchongkit

Narumon Banchongkit
Supervisor
ทะเบียนเลขที่ ว-323-จ-9445

Approved by

D. Changchon

Dej Changchon
Manager
ทะเบียนเลขที่ ว-225-ค-5283

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Analysis / Test Report

Client : Thai Polyethylene Co., Ltd.
10, Map Ta Phut Industrial Estate I-1 Road, Map Ta Phut, Muang District, Rayong
Thailand 21150
P/O : PMM-SCGCH-2019-343
Project Name : Environmental Monitoring
Project Location: PP2_S1

Lot ID: 22124982

Date Received : Nov 04, 2022
Date Reported : Nov 15, 2022
Report Number : 2460389-2 C4

Page 1 of 1

Sample Number	22124982-1						
Sampling Date	Nov 04, 2022 10:55 AM						
Sample Description	Wastewater						
Location	รางระบายน้ำรวม						
Date Analysis Commenced	Nov 04, 2022						
Condition of Sample	Contained in four glass vials, one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Chloride as Cl	mg/L	0.5	1	159	No Standard	Based on APHA (2017), 4500-Cl (D)	Rayong
Total Organic Carbon	mg/L	0.01	0.1	8.95	No Standard	Based on APHA (2017), 5310 B	Bangkok

Guideline: Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017).

Sampling By : Paramet Sattayakun , Panupong Mani

Remark :

- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)

Approved by

Narumon Banchongkit
Supervisor

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Analysis / Test Report

TESTING
No.0042

Client : Thai Polyethylene Co., Ltd.
10, Map Ta Phut Industrial Estate I-1 Road, Map Ta Phut, Muang District, Rayong
Thailand 21150
P/O : PMM-SCGCH-2019-343
Project Name : Environmental Monitoring
Project Location : PP2_S1

Lot ID: 22136499
Date Received : Dec 07, 2022
Date Reported : Jan 04, 2023
Report Number : 2487032-1 C4

Page 1 of 2

Sample Number	22136499-1						
Sampling Date	Dec 07, 2022 8:43 AM						
Sample Description	Wastewater						
Location	รางระบายน้ำรวม						
Date Analysis Commenced	Dec 07, 2022						
Condition of Sample	Contained in four glass vials, one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2	3	≤20	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B	Rayong
COD	mg/L	1.5	5	27	≤120	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Rayong
Color (at Original pH)	ADMI	-	5	11	≤300	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2120 F	Rayong
Color (at pH 7.0)	ADMI	-	5	10	≤300	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2120 F	Rayong
Oil & Grease *	mg/L	-	3	<3	≤5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
pH at 25 degree C *		-	-	7.2	5.5-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	30.9	≤40	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	660	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	8	≤50	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

Technical Management

N. Banchongkit

Narumon Banchongkit
Supervisor
ทะเบียนเลขที่ จ-323-จ-9445

Approved by

D. Changchon

Dej Changchon
Manager
ทะเบียนเลขที่ จ-225-ค-5283

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Analysis / Test Report

TESTING
No.0042

Client : Thai Polyethylene Co., Ltd.
10, Map Ta Phut Industrial Estate I-1 Road, Map Ta Phut, Muang District, Rayong
Thailand 21150
P/O : PMM-SCGCH-2019-343
Project Name : Environmental Monitoring
Project Location: PP2_S1

Lot ID: 22136499
Date Received : Dec 07, 2022
Date Reported : Jan 04, 2023
Report Number : 2487032-1 C4

Page 2 of 2

Guideline: Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017).

Sampling By : Wanlop Hunchainaow , Panupong Manit

Remark :

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- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.

Technical Management

N. Banchongkit

Narumon Banchongkit
Supervisor
ทะเบียนเลขที่ ว-323-จ-9445

Approved by

D. Changchon

Dej Changchon
Manager
ทะเบียนเลขที่ ว-225-ค-5283

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Analysis / Test Report

Client : Thai Polyethylene Co., Ltd.
10, Map Ta Phut Industrial Estate I-1 Road, Map Ta Phut, Muang District, Rayong
Thailand 21150
P/O : PMM-SCGCH-2019-343
Project Name : Environmental Monitoring
Project Location: PP2_S1

Lot ID: 22136499

Date Received : Dec 07, 2022
Date Reported : Jan 04, 2023
Report Number : 2487032-2 C4

Page 1 of 1

Sample Number	22136499-1						
Sampling Date	Dec 07, 2022 8:43 AM						
Sample Description	Wastewater						
Location	รางระบายน้ำรวม						
Date Analysis Commenced	Dec 07, 2022						
Condition of Sample	Contained in four glass vials, one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Chloride as Cl	mg/L	0.5	1	158	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-Cl (D)	Rayong
Total Organic Carbon	mg/L	0.01	0.1	11.1	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5310 B	Bangkok

Guideline: Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017).

Sampling By : Wanlop Hunchainaow , Panupong Manit

Remark :

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- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)

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Approved by

Siriluk P.

Siriluk Puengpang
Supervisor

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand | PHONE +66 0 2760 3000 | FAX +66 0 2760 3197

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ภาคผนวก ค-3

ระดับเสียงทั่วไป



Analysis / Test Report

TESTING
No.0042

Client : Thai Polyethylene Co., Ltd.

10, Map Ta Phut Industrial Estate I-1 Road, Map Ta Phut, Muang District, Rayong Thailand
21150

P/O : PMM-SCGCH-2019-343

Project Name : Environmental Monitoring

Project Location : PP2

Lot ID: 22124958

Date Received : Nov 18, 2022

Date Reported : Nov 24, 2022

Report Number: 2500392-1C4

Page 1 of 1

Sample Number 22124958-1
Parameter Noise (Leq 24 hrs.)
Location อาคารสำนักงานของกลุ่มโรงงาน TPE Site#1 (GPS 47P 0731763, 1404874)
Measurement Date Nov 09 - Nov 10, 2022
Measurement by Satcha Phetsawaeng
Sound Level meter Serial No. 1173611

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
09:00 AM - 10:00 AM	61.2	86.1	59.7
10:00 AM - 11:00 AM	66.8	87.3	58.9
11:00 AM - 12:00 PM	62.5	76.3	59.9
12:00 PM - 01:00 PM	61.5	81.8	58.4
01:00 PM - 02:00 PM	62.9	86.3	58.2
02:00 PM - 03:00 PM	61.8	84.5	58.1
03:00 PM - 04:00 PM	59.5	79.1	57.6
04:00 PM - 05:00 PM	59.7	72.0	57.8
05:00 PM - 06:00 PM	60.5	79.2	58.6
06:00 PM - 07:00 PM	60.0	77.2	57.9
07:00 PM - 08:00 PM	60.0	81.2	58.4
08:00 PM - 09:00 PM	59.9	80.0	58.2
09:00 PM - 10:00 PM	60.5	74.7	59.3
10:00 PM - 11:00 PM	60.2	75.8	58.8
11:00 PM - 12:00 AM	60.0	74.3	58.7
12:00 AM - 01:00 AM	59.8	79.1	58.4
01:00 AM - 02:00 AM	59.8	80.4	58.7
02:00 AM - 03:00 AM	59.1	79.1	57.5
03:00 AM - 04:00 AM	59.4	74.2	58.4
04:00 AM - 05:00 AM	60.1	72.2	58.7
05:00 AM - 06:00 AM	61.1	72.9	59.8
06:00 AM - 07:00 AM	61.7	80.3	60.1
07:00 AM - 08:00 AM	61.7	78.0	59.6
08:00 AM - 09:00 AM	60.2	84.7	58.5

Leq Average 24 hrs. (dB(A)) 61.2
Lmax (dB(A)) 87.3
L90 (dB(A)) 58.5
Ldn (dB(A)) 66.9
Standard (dB(A)) 70 115

Reference Method : ISO1996-1 and 1996-2

Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป
2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดค่าระดับเสียงการรบกวน และระดับเสียงที่เกิดจากการประกอบกิจการ
โรงงาน พ.ศ. 2548

Technical Management

Thanita K.

Thanita Kulsuriwong
Scientist (4)

Approved by

Supot S.

Supot Salamteh
Section Head

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Analysis / Test Report

TESTING
No.0042

Client : Thai Polyethylene Co., Ltd.

10, Map Ta Phut Industrial Estate I-1 Road, Map Ta Phut, Muang District, Rayong Thailand
21150

P/O : PMM-SCGCH-2019-343

Project Name : Environmental Monitoring

Project Location : PP2

Lot ID: 22124958

Date Received : Nov 18, 2022

Date Reported : Nov 24, 2022

Report Number: 2500393-1C4

Page 1 of 1

Sample Number 22124958-2
Parameter Noise (Leq 24 hrs.)
Location อาคารสำนักงานของกลุ่มโรงงาน TPE Site#1 (GPS 47P 0731763, 1404874)
Measurement Date Nov 10 - Nov 11, 2022
Measurement by Satcha Phetsawaeng
Sound Level meter Serial No. 1173611

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
09:00 AM - 10:00 AM	60.7	87.1	58.9
10:00 AM - 11:00 AM	60.6	81.3	58.6
11:00 AM - 12:00 PM	59.8	83.5	57.6
12:00 PM - 01:00 PM	59.5	80.5	57.2
01:00 PM - 02:00 PM	60.1	78.7	57.6
02:00 PM - 03:00 PM	59.6	76.7	57.3
03:00 PM - 04:00 PM	59.0	80.7	56.9
04:00 PM - 05:00 PM	59.4	85.1	56.9
05:00 PM - 06:00 PM	59.1	77.9	56.5
06:00 PM - 07:00 PM	58.5	79.2	56.5
07:00 PM - 08:00 PM	58.2	81.7	56.2
08:00 PM - 09:00 PM	58.7	79.7	57.1
09:00 PM - 10:00 PM	58.6	78.2	57.2
10:00 PM - 11:00 PM	57.9	75.3	56.6
11:00 PM - 12:00 AM	57.3	77.5	56.0
12:00 AM - 01:00 AM	57.8	72.8	56.3
01:00 AM - 02:00 AM	58.4	78.9	57.1
02:00 AM - 03:00 AM	57.5	75.1	56.6
03:00 AM - 04:00 AM	57.7	71.8	56.8
04:00 AM - 05:00 AM	59.0	73.4	58.0
05:00 AM - 06:00 AM	59.7	80.1	57.7
06:00 AM - 07:00 AM	60.2	76.1	58.4
07:00 AM - 08:00 AM	60.9	74.5	58.8
08:00 AM - 09:00 AM	60.4	78.6	58.2

Leq Average 24 hrs. (dB(A)) 59.2
Lmax (dB(A)) 87.1
L90 (dB(A)) 57.1
Ldn (dB(A)) 65.1
Standard (dB(A)) 70 115

Reference Method : ISO1996-1 and 1996-2

Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป
2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดค่าระดับเสียงการรบกวน และระดับเสียงที่เกิดจากการประกอบกิจการ
โรงงาน พ.ศ. 2548

Technical Management

Thanita K.

Thanita Kulsuriwong
Scientist (4)

Approved by

Supot S.

Supot Salamteh
Section Head

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Analysis / Test Report

TESTING
No.0042

Client : Thai Polyethylene Co., Ltd.

10, Map Ta Phut Industrial Estate I-1 Road, Map Ta Phut, Muang District, Rayong Thailand
21150

P/O : PMM-SCGCH-2019-343

Project Name : Environmental Monitoring

Project Location : PP2

Lot ID: 22124958

Date Received : Nov 18, 2022

Date Reported : Nov 24, 2022

Report Number: 2500394-1C4

Page 1 of 1

Sample Number 22124958-3
Parameter Noise (Leq 24 hrs.)
Location อาคารสำนักงานของกลุ่มโรงงาน TPE Site#1 (GPS 47P 0731763, 1404874)
Measurement Date Nov 11 - Nov 12, 2022
Measurement by Satcha Phetsawaeng
Sound Level meter Serial No. 1173611

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
09:00 AM - 10:00 AM	60.4	88.4	57.6
10:00 AM - 11:00 AM	60.3	86.7	57.0
11:00 AM - 12:00 PM	59.3	79.9	56.9
12:00 PM - 01:00 PM	59.4	80.3	56.4
01:00 PM - 02:00 PM	59.3	76.9	56.3
02:00 PM - 03:00 PM	59.1	79.2	56.0
03:00 PM - 04:00 PM	58.8	72.3	56.0
04:00 PM - 05:00 PM	58.2	77.6	55.9
05:00 PM - 06:00 PM	58.2	74.6	55.2
06:00 PM - 07:00 PM	57.5	78.0	54.4
07:00 PM - 08:00 PM	57.9	81.2	54.5
08:00 PM - 09:00 PM	57.2	86.8	54.4
09:00 PM - 10:00 PM	58.2	89.5	55.5
10:00 PM - 11:00 PM	57.1	75.4	55.4
11:00 PM - 12:00 AM	56.4	73.6	55.0
12:00 AM - 01:00 AM	56.7	80.2	55.1
01:00 AM - 02:00 AM	56.2	80.0	54.9
02:00 AM - 03:00 AM	56.2	72.4	55.0
03:00 AM - 04:00 AM	56.6	68.0	55.7
04:00 AM - 05:00 AM	56.4	72.7	55.2
05:00 AM - 06:00 AM	57.7	73.2	55.4
06:00 AM - 07:00 AM	59.3	77.7	56.7
07:00 AM - 08:00 AM	59.1	74.4	56.2
08:00 AM - 09:00 AM	58.4	73.8	56.3

Leq Average 24 hrs. (dB(A)) 58.3
Lmax (dB(A)) 89.5
L90 (dB(A)) 55.5
Ldn (dB(A)) 63.8
Standard (dB(A)) 70 115

Reference Method : ISO1996-1 and 1996-2

Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป
2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดค่าระดับเสียงการรบกวน และระดับเสียงที่เกิดจากการประกอบกิจการ
โรงงาน พ.ศ. 2548

Technical Management

Thanita K.

Thanita Kulsuriwong
Scientist (4)

Approved by

Supot S.

Supot Salamteh
Section Head

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ภาคผนวก ค-4

คุณภาพอากาศในสถานประกอบการ



Analysis / Test Report

Client : Thai Polyethylene Co., Ltd.

10, Map Ta Phut Industrial Estate I-1 Road, Map Ta Phut, Muang District, Rayong
Thailand 21150

P/O :

Project Name : Environmental Monitoring

Project Location : PP2

Lot ID: 2274979

Date Received : Aug 17, 2022

Date Reported : Aug 29, 2022

Report Number : 2347593-1

Page 1 of 3

Sample Number	2274979-1
Sampled Date	Aug 16, 2022
Sample Description	Air Quality
Location	หน่วยโพลีเอทิลีน
Date Analysis Commenced	Aug 18, 2022
Condition of Sample	Drawn into two 10-L air sampling bags and one sorbent tube, refrigerated
Barometric Pressure	756 mmHg
Atmospheric Temperature	30.0 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Ethylene	09:00 AM - 11:00 AM	ppm	-	1.0	<1.0	200	Based on ASTM, D 2712-91	ACGIH	Bangkok
n-Hexane	09:00 AM - 11:00 AM	ppm	-	0.03	<0.03	500	NIOSH (1994), 1500	MOL	Bangkok
Propylene	09:00 AM - 11:00 AM	ppm	-	1.0	<1.0	500	Based on ASTM, D 2712-91	ACGIH	Bangkok

Guideline :

ACGIH : The American Conference of Governmental Industrial Hygiene, The 6th edition of the Documentation of the Threshold Limit Values and Biological Exposure Indices (2020).

MOL : Announcement of the Department of Labour Protection and Welfare on Threshold Limit Values of Hazardous Chemical Substances Dated August 3, B.E. 2560 (2017)

Sampled By : Supot Salamteh

Remark :

- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)

Approved by

Saranya C.

Saranya Chalermthamrong
Scientist (4)

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Analysis / Test Report

Client : Thai Polyethylene Co., Ltd.
10, Map Ta Phut Industrial Estate I-1 Road, Map Ta Phut, Muang District, Rayong
Thailand 21150

P/O :

Project Name : Environmental Monitoring

Project Location : PP2

Lot ID: 2274979

Date Received : Aug 17, 2022

Date Reported : Aug 29, 2022

Report Number : 2347593-1

Page 2 of 3

Sample Number 2274979-2
Sampled Date Aug 16, 2022
Sample Description Air Quality
Location หน่วยบรรจุผลิตภัณฑ์
Date Analysis Commenced Aug 19, 2022
Condition of Sample Drawn into one filter paper placed in plastic cassette
Barometric Pressure 756 mmHg
Atmospheric Temperature 30.0 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Total Dust	09:00 AM - 11:00 AM	mg/m3	-	0.15	<0.15	15	Based on NIOSH (1994), 0500	OSHA	Rayong

Guideline :

OSHA : Occupational Safety and Health Administration

Sampled By : Supot Salamteh

Remark :

- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)

Approved by

Saranya C.

Saranya Chalermthamrong
Scientist (4)

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.



Analysis / Test Report

Client : Thai Polyethylene Co., Ltd.
10, Map Ta Phut Industrial Estate I-1 Road, Map Ta Phut, Muang District, Rayong
Thailand 21150

P/O :

Project Name : Environmental Monitoring

Project Location : PP2

Lot ID: 2274979

Date Received : Aug 17, 2022

Date Reported : Aug 29, 2022

Report Number : 2347593-1

Page 3 of 3

Sample Number 2274979-3
Sampled Date Aug 16, 2022
Sample Description Air Quality
Location Extruder (หน่วยดัดเม็ด)
Date Analysis Commenced Aug 18, 2022
Condition of Sample Drawn into two 10-L air sampling bags and one sorbent tube, refrigerated
Barometric Pressure 756 mmHg
Atmospheric Temperature 30.0 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Ethylene	09:00 AM - 11:00 AM	ppm	-	1.0	<1.0	200	Based on ASTM, D 2712-91	ACGIH	Bangkok
n-Hexane	09:00 AM - 11:00 AM	ppm	-	0.03	<0.03	500	NIOSH (1994), 1500	MOL	Bangkok
Propylene	09:00 AM - 11:00 AM	ppm	-	1.0	<1.0	500	Based on ASTM, D 2712-91	ACGIH	Bangkok

Guideline :

ACGIH : The American Conference of Governmental Industrial Hygiene, The 6th edition of the Documentation of the Threshold Limit Values and Biological Exposure Indices (2020).

MOL : Announcement of the Department of Labour Protection and Welfare on Threshold Limit Values of Hazardous Chemical Substances Dated August 3, B.E. 2560 (2017)

Sampled By : Supot Salamteh

Remark :

- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)

Approved by

Saranya C.

Saranya Chalermthamrong
Scientist (4)

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Analysis / Test Report

Client : Thai Polyethylene Co., Ltd.
10, Map Ta Phut Industrial Estate I-1 Road, Map Ta Phut, Muang District, Rayong
Thailand 21150

P/O :

Project Name : Environmental Monitoring

Project Location : PP2

Lot ID: 22125291

Date Received : Nov 14, 2022

Date Reported : Nov 25, 2022

Report Number : 2461214-1

Page 1 of 3

Sample Number 22125291-1
Sampled Date Nov 11, 2022
Sample Description Air Quality
Location หน่วยโพลีเอทิลีน
Date Analysis Commenced Nov 15, 2022
Condition of Sample Drawn into one 10-L air sampling bag and two sorbent tubes, refrigerated
Barometric Pressure 760 mmHg
Atmospheric Temperature 32.0 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Ethylene	09:00 AM - 11:00 AM	ppm	-	1.0	<1.0	200	Based on ASTM, D 2712-91	ACGIH	Bangkok
n-Hexane	09:00 AM - 11:00 AM	ppm	-	0.03	0.10	500	NIOSH (1994), 1500	MOL	Bangkok
Propylene	09:00 AM - 11:00 AM	ppm	-	1.0	<1.0	500	Based on ASTM, D 2712-91	ACGIH	Bangkok

Guideline :

ACGIH : The American Conference of Governmental Industrial Hygiene, The 6th edition of the Documentation of the Threshold Limit Values and Biological Exposure Indices (2022).

MOL : Announcement of the Department of Labour Protection and Welfare on Threshold Limit Values of Hazardous Chemical Substances Dated August 3, B.E. 2560 (2017)

Sampled By : Saknarin Jaraskay

Remark :

- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)

Approved by

Saranya C.

Saranya Chalermthamrong
Scientist (4)

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Analysis / Test Report

Client : Thai Polyethylene Co., Ltd.
10, Map Ta Phut Industrial Estate I-1 Road, Map Ta Phut, Muang District, Rayong
Thailand 21150

P/O :

Project Name : Environmental Monitoring

Project Location : PP2

Lot ID: 22125291

Date Received : Nov 14, 2022

Date Reported : Nov 25, 2022

Report Number : 2461214-1

Page 2 of 3

Sample Number 22125291-2
Sampled Date Nov 11, 2022
Sample Description Air Quality
Location หน่วยบรรจุผลิตภัณฑ์
Date Analysis Commenced Nov 15, 2022
Condition of Sample Drawn into one filter paper placed in plastic cassette
Barometric Pressure 760 mmHg
Atmospheric Temperature 32.0 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Total Dust	09:00 AM - 11:00 AM	mg/m3	-	0.15	<0.15	15	Based on NIOSH (1994), 0500	OSHA	Rayong

Guideline :

OSHA : Occupational Safety and Health Administration

Sampled By : Saknarin Jaraskay

Remark :

- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)

Approved by

Saranya C.

Saranya Chalermthamrong
Scientist (4)

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Analysis / Test Report

Client : Thai Polyethylene Co., Ltd.
10, Map Ta Phut Industrial Estate I-1 Road, Map Ta Phut, Muang District, Rayong
Thailand 21150

P/O :

Project Name : Environmental Monitoring

Project Location : PP2

Lot ID: 22125291

Date Received : Nov 14, 2022

Date Reported : Nov 25, 2022

Report Number : 2461214-1

Page 3 of 3

Sample Number 22125291-3
Sampled Date Nov 11, 2022
Sample Description Air Quality
Location Extruder (หน่วยดัดเม็ด)
Date Analysis Commenced Nov 15, 2022
Condition of Sample Drawn into one 10-L air sampling bag and two sorbent tubes, refrigerated
Barometric Pressure 760 mmHg
Atmospheric Temperature 32.0 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Ethylene	09:00 AM - 11:00 AM	ppm	-	1.0	<1.0	200	Based on ASTM, D 2712-91	ACGIH	Bangkok
n-Hexane	09:00 AM - 11:00 AM	ppm	-	0.03	<0.03	500	NIOSH (1994), 1500	MOL	Bangkok
Propylene	09:00 AM - 11:00 AM	ppm	-	1.0	<1.0	500	Based on ASTM, D 2712-91	ACGIH	Bangkok

Guideline :

ACGIH : The American Conference of Governmental Industrial Hygiene, The 6th edition of the Documentation of the Threshold Limit Values and Biological Exposure Indices (2022).

MOL : Announcement of the Department of Labour Protection and Welfare on Threshold Limit Values of Hazardous Chemical Substances Dated August 3, B.E. 2560 (2017)

Sampled By : Saknarin Jaraskay

Remark :

- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)

Approved by

Saranya C.

Saranya Chalermthamrong
Scientist (4)

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ภาคผนวก ค-5

ระดับเสียงในสถานประกอบการ



Analysis / Test Report

Client : Thai Polyethylene Co., Ltd.

10, Map Ta Phut Industrial Estate I-1 Road, Map Ta Phut, Muang District, Rayong Thailand 21150

P/O :

Project Name : Environmental Monitoring

Project Location : PP2

Lot ID: 2274980

Date Received : Aug 17, 2022

Date Reported : Aug 18, 2022

Report Number: 2408537-1

Page 1 of 1

Sample Number 2274980-1
Parameter Noise (Leq 8 hrs.)
Location หน่วยเพอร์เมอไรเซชัน
Measurement Date Aug 16, 2022
Measurement by Supot Salamteh

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
09:26 AM - 10:26 AM	82.4	87.8	81.6
10:26 AM - 11:26 AM	82.6	87.9	81.6
11:26 AM - 12:26 PM	82.5	87.6	81.6
12:26 PM - 01:26 PM	82.5	87.7	81.5
01:26 PM - 02:26 PM	82.2	87.5	81.3
02:26 PM - 03:26 PM	82.4	87.5	81.5
03:26 PM - 04:26 PM	82.7	88.0	81.8
04:26 PM - 05:26 PM	82.2	87.6	81.3

Leq Average 8 hrs. (dB(A))

82.4

Lmax (dB(A))

88.0

Standard (dB(A))

90

140

Reference Method : ISO1996-1 and 1996-2

Standard : ประกาศกระทรวงอุตสาหกรรม เรื่อง มาตรการคุ้มครองความปลอดภัย

ในการประกอบกิจการโรงงานเกี่ยวกับสภาวะแวดล้อมในการทำงาน พ.ศ.๒๕๔๖

Technical Management

Thanita K.

Thanita Kulsuriwong
Scientist (4)

Approved by

Supot S.

Supot Salamteh
Section Head

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Analysis / Test Report

Client : Thai Polyethylene Co., Ltd.

10, Map Ta Phut Industrial Estate I-1 Road, Map Ta Phut, Muang District, Rayong Thailand 21150

P/O :

Project Name : Environmental Monitoring

Project Location : PP2

Lot ID: 2274980

Date Received : Aug 17, 2022

Date Reported : Aug 18, 2022

Report Number: 2408538-1

Page 1 of 1

Sample Number 2274980-2
Parameter Noise (Leq 8 hrs.)
Location หน่วยตัดเม็ด
Measurement Date Aug 16, 2022
Measurement by Supot Salamteh

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
09:28 AM - 10:28 AM	78.8	91.3	77.0
10:28 AM - 11:28 AM	77.1	77.9	76.9
11:28 AM - 12:28 PM	77.1	78.2	76.8
12:28 PM - 01:28 PM	77.6	85.4	76.9
01:28 PM - 02:28 PM	78.0	79.7	77.7
02:28 PM - 03:28 PM	78.0	79.0	77.7
03:28 PM - 04:28 PM	78.0	79.8	77.7
04:28 PM - 05:28 PM	78.0	84.8	77.7
Leq Average 8 hrs. (dB(A))	77.9		
Lmax (dB(A))		91.3	
Standard (dB(A))	90	140	
Reference Method : ISO1996-1 and 1996-2			
Standard : ประกาศกระทรวงอุตสาหกรรม เรื่อง มาตรการคุ้มครองความปลอดภัย ในการประกอบกิจการโรงงานเกี่ยวกับสภาวะแวดล้อมในการทำงาน พ.ศ.๒๕๕๖			

Technical Management

Thanita K.

Thanita Kulsuriwong
Scientist (4)

Approved by

Supot S.

Supot Salamteh
Section Head

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Analysis / Test Report

Client : Thai Polyethylene Co., Ltd.

10, Map Ta Phut Industrial Estate I-1 Road, Map Ta Phut, Muang District, Rayong Thailand 21150

P/O :

Project Name : Environmental Monitoring

Project Location : PP2

Lot ID: 2274980

Date Received : Aug 17, 2022

Date Reported : Aug 18, 2022

Report Number: 2408539-1

Page 1 of 1

Sample Number 2274980-3
Parameter Noise (Leq 8 hrs.)
Location Compressor (ท่อขนส่ง Vent Gas และ Nitrogen)
Measurement Date Aug 16, 2022
Measurement by Supot Salamteh

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
09:20 AM - 10:20 AM	76.6	79.2	76.2
10:20 AM - 11:20 AM	76.3	83.6	75.8
11:20 AM - 12:20 PM	76.1	77.7	75.7
12:20 PM - 01:20 PM	76.3	77.7	75.9
01:20 PM - 02:20 PM	76.5	78.1	76.1
02:20 PM - 03:20 PM	76.4	78.0	76.0
03:20 PM - 04:20 PM	76.3	78.1	75.9
04:20 PM - 05:20 PM	76.3	80.5	76.0

Leq Average 8 hrs. (dB(A))

76.4

Lmax (dB(A))

83.6

Standard (dB(A))

90

140

Reference Method : ISO1996-1 and 1996-2

Standard : ประกาศกระทรวงอุตสาหกรรม เรื่อง มาตรการคุ้มครองความปลอดภัย

ในการประกอบกิจการโรงงานเกี่ยวกับสภาวะแวดล้อมในการทำงาน พ.ศ.๒๕๔๖

Technical Management

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Analysis / Test Report

Client : Thai Polyethylene Co., Ltd.

10, Map Ta Phut Industrial Estate I-1 Road, Map Ta Phut, Muang District, Rayong Thailand 21150

P/O :

Project Name : Environmental Monitoring

Project Location : PP2

Lot ID: 22125293

Date Received : Nov 14, 2022

Date Reported : Nov 18, 2022

Report Number: 2492980-1

Page 1 of 1

Sample Number 22125293-1
Parameter Noise (Leq 8 hrs.)
Location หน่วยเพอร์เมอไรเซชัน
Measurement Date Nov 11, 2022
Measurement by Saknarin Jaraskay

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
09:03 AM - 10:03 AM	83.3	87.7	81.5
10:03 AM - 11:03 AM	83.5	88.5	82.2
11:03 AM - 12:03 PM	83.5	87.4	82.1
12:03 PM - 01:03 PM	83.3	88.6	82.6
01:03 PM - 02:03 PM	83.6	91.4	82.1
02:03 PM - 03:03 PM	83.4	88.1	81.8
03:03 PM - 04:03 PM	83.4	88.7	82.7
04:03 PM - 05:03 PM	83.3	88.3	82.0

Leq Average 8 hrs. (dB(A))

83.4

Lmax (dB(A))

91.4

Standard (dB(A))

90

140

Reference Method : ISO1996-1 and 1996-2

Standard : ประกาศกระทรวงอุตสาหกรรม เรื่อง มาตรการคุ้มครองความปลอดภัย
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Technical Management

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Scientist (4)

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Analysis / Test Report

Client : Thai Polyethylene Co., Ltd.

10, Map Ta Phut Industrial Estate I-1 Road, Map Ta Phut, Muang District, Rayong Thailand 21150

P/O :

Project Name : Environmental Monitoring

Project Location : PP2

Lot ID: 22125293

Date Received : Nov 14, 2022

Date Reported : Nov 18, 2022

Report Number: 2492981-1

Page 1 of 1

Sample Number 22125293-2
Parameter Noise (Leq 8 hrs.)
Location หน่วยตัดเม็ด
Measurement Date Nov 11, 2022
Measurement by Saknarin Jaraskay

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
08:58 AM - 09:58 AM	81.8	84.9	81.2
09:58 AM - 10:58 AM	81.4	83.2	80.8
10:58 AM - 11:58 AM	81.1	85.8	80.5
11:58 AM - 12:58 PM	81.0	82.8	80.4
12:58 PM - 01:58 PM	81.8	83.5	81.0
01:58 PM - 02:58 PM	81.5	83.0	80.9
02:58 PM - 03:58 PM	81.5	83.3	81.0
03:58 PM - 04:58 PM	81.5	85.1	80.9

Leq Average 8 hrs. (dB(A))

81.5

Lmax (dB(A))

85.8

Standard (dB(A))

90

140

Reference Method : ISO1996-1 and 1996-2

Standard : ประกาศกระทรวงอุตสาหกรรม เรื่อง มาตรการคุ้มครองความปลอดภัย
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Technical Management

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Thanita Kulsuriwong
Scientist (4)

Approved by

Supot S.

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Client : Thai Polyethylene Co., Ltd.

10, Map Ta Phut Industrial Estate I-1 Road, Map Ta Phut, Muang District, Rayong Thailand 21150

P/O :

Project Name : Environmental Monitoring

Project Location : PP2

Lot ID: 22125293

Date Received : Nov 14, 2022

Date Reported : Nov 18, 2022

Report Number: 2492982-1

Page 1 of 1

Sample Number 22125293-3
Parameter Noise (Leq 8 hrs.)
Location Compressor (ท่อขนส่ง Vent Gas และ Nitrogen)
Measurement Date Nov 11, 2022
Measurement by Saknarin Jaraskay

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
09:06 AM - 10:06 AM	75.6	84.1	74.8
10:06 AM - 11:06 AM	75.0	76.2	74.6
11:06 AM - 12:06 PM	74.8	75.8	74.4
12:06 PM - 01:06 PM	74.4	75.4	74.1
01:06 PM - 02:06 PM	74.7	75.8	74.3
02:06 PM - 03:06 PM	74.8	75.7	74.5
03:06 PM - 04:06 PM	74.7	76.2	74.4
04:06 PM - 05:06 PM	75.1	75.8	74.8

Leq Average 8 hrs. (dB(A))

74.9

Lmax (dB(A))

84.1

Standard (dB(A))

90

140

Reference Method : ISO1996-1 and 1996-2

Standard : ประกาศกระทรวงอุตสาหกรรม เรื่อง มาตรการคุ้มครองความปลอดภัย
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Technical Management

Thanita K.

Thanita Kulsuriwong
Scientist (4)

Approved by

Supot S.

Supot Salamteh
Section Head

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ภาคผนวก ค-6

ระดับความร้อนในสถานประกอบการ



Analysis / Test Report

Client : Thai Polyethylene Co., Ltd.

10, Map Ta Phut Industrial Estate I-1 Road, Map Ta Phut, Muang District,
Rayong Thailand 21150

P/O :

Project Name : Environmental Monitoring

Project Location : PP2

Lot ID: 2274983

Date Received : Aug 17, 2022

Date Reported : Aug 20, 2022

Report Number: 2347615-1

Page 1 of 1

Sample Number 2274983-1
Parameter Heat Stress (Sampling Time : 10.00 AM - 12.00 PM)
Measurement Date Aug 16, 2022
Measurement by Supot Salamteh
Location ปฏิบัติงาน 1 พื้นที่ (ชื่อ-นามสกุล ผู้ปฏิบัติงาน : - แผนก : -)

Location	Duration (min)	WBGT (°C)	NWB (°C)	GT (°C)	DB (°C)
หน่วยตัดไม้	120	29.1	27.3	33.2	33.0
Average (WBGT)		29.1			
Guideline WBGT (°C)		34.0			

Reference Method : Wet Bulb Globe Temperature

Guideline:

1. Notification of Department Labour Protection and Welfare on the Criteria and Procedures for Measurement and Analysis of Working Conditions in relation to Heat, Light or Noise Levels, including Duration and Types of Business that must perform (B.E. 2561)
2. Ministerial Regulation on Prescribing of Standard for Administration and Management of Occupational Safety, Health and Environment in relation to Heat, Light and Noise, B.E.2559

Technical Management

Supot Salamteh
Section Head

Approved by

Wichan Choonharat
Assistant Manager

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Analysis / Test Report

Client : Thai Polyethylene Co., Ltd.
10, Map Ta Phut Industrial Estate I-1 Road, Map Ta Phut, Muang District,
Rayong Thailand 21150

P/O :

Project Name : Environmental Monitoring

Project Location : PP2

Lot ID: 22125294

Date Received : Nov 14, 2022

Date Reported : Nov 16, 2022

Report Number: 2461223-1

Page 1 of 1

Sample Number 22125294-1
Parameter Heat Stress (Sampling Time : 10.00 AM - 12.00 PM)
Measurement Date Nov 11, 2022
Measurement by Natthapon Jiengwareewong
Location ปฏิบัติงาน 1 พื้นที่ (ชื่อ-นามสกุล ผู้ปฏิบัติงาน : - แผนก : -)

Location	Duration (min)	WBGT (°C)	NWB (°C)	GT (°C)	DB (°C)
หน่วยตัดไม้	120	28.9	26.9	33.4	33.3
Average (WBGT)		28.9			
Guideline WBGT (°C)		34.0			

Reference Method : Wet Bulb Globe Temperature

Guideline:

1. Notification of Department Labour Protection and Welfare on the Criteria and Procedures for Measurement and Analysis of Working Conditions in relation to Heat, Light or Noise Levels, including Duration and Types of Business that must perform (B.E. 2561)
2. Ministerial Regulation on Prescribing of Standard for Administration and Management of Occupational Safety, Health and Environment in relation to Heat, Light and Noise, B.E.2559

Technical Management

Supot Salamteh
Section Head

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Assistant Manager

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