

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

P/O :

Project Name : Environmental Monitoring

Project Location : PP2

Lot ID: 2250245

Date Received : May 19, 2022

Date Reported : May 26, 2022

Report Number : 2295510-1

Page 1 of 14

Sample Number 2250245-1
Sampled Date May 06, 2022
Sample Description Air Quality
Location โรงเรียนบ้านหนองแฟบ
Date Analysis Commenced May 20, 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	06/05/22 - 07/05/22	ppm	-	1.0	<1.0	EPA 40 CFR Part 50, Appendix C	Rayong

Sampled By : Anurak Tongkhajonsakda

Remark :

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Analysis / Test Report

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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: 2250245

Date Received : May 19, 2022

Date Reported : May 26, 2022

Report Number : 2295510-1

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Sample Number 2250245-2
Sampled Date May 07, 2022
Sample Description Air Quality
Location โรงเรียนบ้านหนองแฟบ
Date Analysis Commenced May 20, 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	07/05/22 - 08/05/22	ppm	-	1.0	<1.0	EPA 40 CFR Part 50, Appendix C	Rayong

Sampled By : Anurak Tongkhajonsakda

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Thailand 21150

P/O :

Project Name : Environmental Monitoring

Project Location : PP2

Lot ID: 2250245

Date Received : May 19, 2022

Date Reported : May 26, 2022

Report Number : 2295510-1

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Sample Number 2250245-3
Sampled Date May 08, 2022
Sample Description Air Quality
Location โรงเรียนบ้านหนองแฟบ
Date Analysis Commenced May 20, 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	08/05/22 - 09/05/22	ppm	-	1.0	2.0	EPA 40 CFR Part 50, Appendix C	Rayong

Sampled By : Anurak Tongkhajonsakda

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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: 2250245

Date Received : May 19, 2022

Date Reported : May 26, 2022

Report Number : 2295510-1

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Sample Number 2250245-4
Sampled Date May 09, 2022
Sample Description Air Quality
Location โรงเรียนบ้านหนองแฟบ
Date Analysis Commenced May 20, 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	09/05/22 - 10/05/22	ppm	-	1.0	1.2	EPA 40 CFR Part 50, Appendix C	Rayong

Sampled By : Anurak Tongkhajonsakda

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Analysis / Test Report

Client : Thai Polyethylene Co., Ltd.
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Thailand 21150

P/O :

Project Name : Environmental Monitoring

Project Location : PP2

Lot ID: 2250245

Date Received : May 19, 2022

Date Reported : May 26, 2022

Report Number : 2295510-1

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Sample Number 2250245-5
Sampled Date May 10, 2022
Sample Description Air Quality
Location โรงเรียนบ้านหนองแฟบ
Date Analysis Commenced May 20, 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	10/05/22 - 11/05/22	ppm	-	1.0	<1.0	EPA 40 CFR Part 50, Appendix C	Rayong

Sampled By : Anurak Tongkhajonsakda

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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: 2250245

Date Received : May 19, 2022

Date Reported : May 26, 2022

Report Number : 2295510-1

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Sample Number 2250245-6
Sampled Date May 11, 2022
Sample Description Air Quality
Location โรงเรียนบ้านหนองแฟบ
Date Analysis Commenced May 20, 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	11/05/22 - 12/05/22	ppm	-	1.0	2.7	EPA 40 CFR Part 50, Appendix C	Rayong

Sampled By : Anurak Tongkhajonsakda

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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: 2250245

Date Received : May 19, 2022

Date Reported : May 26, 2022

Report Number : 2295510-1

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Sample Number 2250245-7
Sampled Date May 12, 2022
Sample Description Air Quality
Location โรงเรียนบ้านหนองแฟบ
Date Analysis Commenced May 20, 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	12/05/22 - 13/05/22	ppm	-	1.0	1.4	EPA 40 CFR Part 50, Appendix C	Rayong

Sampled By : Anurak Tongkhajonsakda

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Thailand 21150

P/O :

Project Name : Environmental Monitoring

Project Location : PP2

Lot ID: 2250245

Date Received : May 19, 2022

Date Reported : May 26, 2022

Report Number : 2295510-1

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Sample Number 2250245-8
Sampled Date May 06, 2022
Sample Description Air Quality
Location อาคารสำนักงานของกลุ่มโรงงาน TPE (Site 1)
Date Analysis Commenced May 20, 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	06/05/22 - 07/05/22	ppm	-	1.0	2.1	EPA 40 CFR Part 50, Appendix C	Rayong

Sampled By : Anurak Tongkhajonsakda

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Thailand 21150

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

Lot ID: 2250245

Date Received : May 19, 2022
Date Reported : May 26, 2022
Report Number : 2295510-1

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Sample Number 2250245-9
Sampled Date May 07, 2022
Sample Description Air Quality
Location อาคารสำนักงานของกลุ่มโรงงาน TPE (Site 1)
Date Analysis Commenced May 20, 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	07/05/22 - 08/05/22	ppm	-	1.0	1.6	EPA 40 CFR Part 50, Appendix C	Rayong

Sampled By : Anurak Tongkhajonsakda

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Thailand 21150

P/O :

Project Name : Environmental Monitoring

Project Location : PP2

Lot ID: 2250245

Date Received : May 19, 2022

Date Reported : May 26, 2022

Report Number : 2295510-1

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Sample Number 2250245-10
Sampled Date May 08, 2022
Sample Description Air Quality
Location อาคารสำนักงานของกลุ่มโรงงาน TPE (Site 1)
Date Analysis Commenced May 20, 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	08/05/22 - 09/05/22	ppm	-	1.0	2.0	EPA 40 CFR Part 50, Appendix C	Rayong

Sampled By : Anurak Tongkhajonsakda

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Analysis / Test Report

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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: 2250245

Date Received : May 19, 2022

Date Reported : May 26, 2022

Report Number : 2295510-1

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Sample Number 2250245-11
Sampled Date May 09, 2022
Sample Description Air Quality
Location อาคารสำนักงานของกลุ่มโรงงาน TPE (Site 1)
Date Analysis Commenced May 20, 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	09/08/22 - 10/05/22	ppm	-	1.0	1.8	EPA 40 CFR Part 50, Appendix C	Rayong

Sampled By : Anurak Tongkhajonsakda

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Thailand 21150

P/O :

Project Name : Environmental Monitoring

Project Location : PP2

Lot ID: 2250245

Date Received : May 19, 2022

Date Reported : May 26, 2022

Report Number : 2295510-1

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Sample Number 2250245-12
Sampled Date May 10, 2022
Sample Description Air Quality
Location อาคารสำนักงานของกลุ่มโรงงาน TPE (Site 1)
Date Analysis Commenced May 20, 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	10/05/22 - 11/05/22	ppm	-	1.0	2.5	EPA 40 CFR Part 50, Appendix C	Rayong

Sampled By : Anurak Tongkhajonsakda

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Thailand 21150

P/O :

Project Name : Environmental Monitoring

Project Location : PP2

Lot ID: 2250245

Date Received : May 19, 2022

Date Reported : May 26, 2022

Report Number : 2295510-1

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Sample Number 2250245-13
Sampled Date May 11, 2022
Sample Description Air Quality
Location อาคารสำนักงานของกลุ่มโรงงาน TPE (Site 1)
Date Analysis Commenced May 20, 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	11/05/22 - 12/05/22	ppm	-	1.0	1.9	EPA 40 CFR Part 50, Appendix C	Rayong

Sampled By : Anurak Tongkhajonsakda

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P/O :

Project Name : Environmental Monitoring

Project Location : PP2

Lot ID: 2250245

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Date Reported : May 26, 2022

Report Number : 2295510-1

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Sample Number 2250245-14
Sampled Date May 12, 2022
Sample Description Air Quality
Location อาคารสำนักงานของกลุ่มโรงงาน TPE (Site 1)
Date Analysis Commenced May 20, 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	12/05/22 - 13/05/22	ppm	-	1.0	2.1	EPA 40 CFR Part 50, Appendix C	Rayong

Sampled By : Anurak Tongkhajonsakda

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P/O :

Project Name : Environmental Monitoring

Project Location :

Lot ID: 2250187

Date Received : May 19, 2022

Date Reported : May 26, 2022

Report Number : 2295383-1

Page 1 of 7

Sample Number 2250187-1
Sampled Date May 06, 2022
Sample Description Air Quality
Location โรงเรียนบ้านมาบตาพุด (โศภณราษฎร์บูรณะ)
Date Analysis Commenced May 20, 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	06/05/22 - 07/05/22	ppm	-	1.0	1.1	EPA 40 CFR Part 50, Appendix C	Rayong

Sampled By : Anurak Tongkhajonsakda

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P/O :

Project Name : Environmental Monitoring

Project Location :

Lot ID: 2250187

Date Received : May 19, 2022

Date Reported : May 26, 2022

Report Number : 2295383-1

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Sample Number 2250187-2
Sampled Date May 07, 2022
Sample Description Air Quality
Location โรงเรียนบ้านมาบตาพุด (โศภณราษฎร์บูรณะ)
Date Analysis Commenced May 20, 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	07/05/22 - 08/05/22	ppm	-	1.0	1.4	EPA 40 CFR Part 50, Appendix C	Rayong

Sampled By : Anurak Tongkhajonsakda

Remark :

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

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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 :

Lot ID: 2250187

Date Received : May 19, 2022

Date Reported : May 26, 2022

Report Number : 2295383-1

Page 3 of 7

Sample Number 2250187-3
Sampled Date May 08, 2022
Sample Description Air Quality
Location โรงเรียนบ้านมาบตาพุด (โศภณราษฎร์บูรณะ)
Date Analysis Commenced May 20, 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	08/05/22 - 09/05/22	ppm	-	1.0	2.7	EPA 40 CFR Part 50, Appendix C	Rayong

Sampled By : Anurak Tongkhajonsakda

Remark :

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

Approved by

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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 :

Lot ID: 2250187

Date Received : May 19, 2022

Date Reported : May 26, 2022

Report Number : 2295383-1

Page 4 of 7

Sample Number 2250187-4
Sampled Date May 09, 2022
Sample Description Air Quality
Location โรงเรียนบ้านมาบตาพุด (โศภณราษฎร์บูรณะ)
Date Analysis Commenced May 20, 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	09/05/22 - 10/05/22	ppm	-	1.0	<1.0	EPA 40 CFR Part 50, Appendix C	Rayong

Sampled By : Anurak Tongkhajonsakda

Remark :

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

Approved by

Thanita K.

Thanita Kulsuriwong
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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 :

Lot ID: 2250187

Date Received : May 19, 2022

Date Reported : May 26, 2022

Report Number : 2295383-1

Page 5 of 7

Sample Number 2250187-5
Sampled Date May 10, 2022
Sample Description Air Quality
Location โรงเรียนบ้านมาบตาพุด (โศภนราษฎร์บุรณะ)
Date Analysis Commenced May 20, 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	10/05/22 - 11/05/22	ppm	-	1.0	1.9	EPA 40 CFR Part 50, Appendix C	Rayong

Sampled By : Anurak Tongkhajonsakda

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 :

Lot ID: 2250187

Date Received : May 19, 2022

Date Reported : May 26, 2022

Report Number : 2295383-1

Page 6 of 7

Sample Number 2250187-6
Sampled Date May 11, 2022
Sample Description Air Quality
Location โรงเรียนบ้านมาบตาพุด (โศภณราษฎร์บูรณะ)
Date Analysis Commenced May 20, 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	11/05/22 - 12/05/22	ppm	-	1.0	1.3	EPA 40 CFR Part 50, Appendix C	Rayong

Sampled By : Anurak Tongkhajonsakda

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 :

Lot ID: 2250187

Date Received : May 19, 2022

Date Reported : May 26, 2022

Report Number : 2295383-1

Page 7 of 7

Sample Number 2250187-7
Sampled Date May 12, 2022
Sample Description Air Quality
Location โรงเรียนบ้านมาบตาพุด (โศภณราษฎร์บูรณะ)
Date Analysis Commenced May 20, 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	12/05/22 - 13/05/22	ppm	-	1.0	1.2	EPA 40 CFR Part 50, Appendix C	Rayong

Sampled By : Anurak Tongkhajonsakda

Remark :

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Thanita Kulsuriwong
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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: 2250242

Date Received : May 19, 2022

Date Reported : May 25, 2022

Report Number: 2295485-1

Page 1 of 1

Sample Description Air Quality
Location โรงเรียนบ้านหนองแฟบ
Parameter Nitrogen dioxide (ppm)
Measurement Date May 06, 2022 - May 13, 2022
Measurement by Anurak Tongkhajonsakda

	2250242-1 May 06, 2022	2250242-2 May 07, 2022	2250242-3 May 08, 2022	2250242-4 May 09, 2022	2250242-5 May 10, 2022	2250242-6 May 11, 2022	2250242-7 May 12, 2022
Time							
01:00 PM - 02:00 PM	<0.001	0.001	0.002	0.004	<0.001	0.002	<0.001
02:00 PM - 03:00 PM	<0.001	0.002	0.004	0.003	0.001	0.002	<0.001
03:00 PM - 04:00 PM	<0.001	0.002	0.002	0.005	<0.001	<0.001	0.001
04:00 PM - 05:00 PM	<0.001	0.001	0.004	0.005	0.002	0.002	<0.001
05:00 PM - 06:00 PM	<0.001	0.002	0.004	0.006	<0.001	<0.001	0.004
06:00 PM - 07:00 PM	<0.001	0.001	0.004	0.002	0.001	<0.001	0.001
07:00 PM - 08:00 PM	<0.001	0.002	0.005	0.003	<0.001	<0.001	0.002
08:00 PM - 09:00 PM	<0.001	0.002	0.004	0.002	<0.001	<0.001	0.002
09:00 PM - 10:00 PM	<0.001	0.002	0.003	0.003	0.003	<0.001	0.002
10:00 PM - 11:00 PM	<0.001	0.002	0.002	0.002	0.003	<0.001	0.002
11:00 PM - 12:00 AM	<0.001	0.002	0.004	0.002	0.003	<0.001	0.001
12:00 AM - 01:00 AM	<0.001	0.002	0.003	0.003	0.003	<0.001	0.001
01:00 AM - 02:00 AM	<0.001	0.002	0.002	<0.001	0.003	<0.001	<0.001
02:00 AM - 03:00 AM	0.001	0.002	0.002	0.002	0.002	<0.001	0.001
03:00 AM - 04:00 AM	<0.001	0.003	0.002	<0.001	0.002	<0.001	<0.001
04:00 AM - 05:00 AM	0.001	0.003	0.002	0.002	0.002	<0.001	0.002
05:00 AM - 06:00 AM	<0.001	0.003	0.002	0.002	0.002	<0.001	0.002
06:00 AM - 07:00 AM	<0.001	0.002	0.002	0.002	0.002	<0.001	0.002
07:00 AM - 08:00 AM	<0.001	0.002	0.003	0.002	0.002	<0.001	0.003
08:00 AM - 09:00 AM	<0.001	0.002	0.003	0.002	0.002	<0.001	0.003
09:00 AM - 10:00 AM	<0.001	0.003	0.004	<0.001	0.002	<0.001	0.003
10:00 AM - 11:00 AM	<0.001	0.002	0.004	<0.001	0.002	<0.001	0.004
11:00 AM - 12:00 PM	<0.001	0.002	0.004	0.001	0.002	<0.001	0.005
12:00 PM - 01:00 PM	<0.001	0.003	0.004	<0.001	0.004	<0.001	0.003
Average	<0.001	0.002	0.003	0.002	0.002	<0.001	0.002
1hr - Maximum	0.001	0.003	0.005	0.006	0.004	0.002	0.005
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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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: 2250242

Date Received : May 19, 2022

Date Reported : May 25, 2022

Report Number: 2323502-1

Page 1 of 1

Sample Description Air Quality
Location อาคารสำนักงานของกลุ่มโรงงาน TPE (Site 1)
Parameter Nitrogen dioxide (ppm)
Measurement Date May 06, 2022 - May 13, 2022
Measurement by Anurak Tongkhajonsakda

	2250242-8 May 06, 2022	2250242-9 May 07, 2022	2250242-10 May 08, 2022	2250242-11 May 09, 2022	2250242-12 May 10, 2022	2250242-13 May 11, 2022	2250242-14 May 12, 2022
Time							
09:00 AM - 10:00 AM	0.010	0.003	0.004	0.002	0.005	0.004	0.003
10:00 AM - 11:00 AM	0.010	0.003	0.007	0.007	0.003	0.006	0.003
11:00 AM - 12:00 PM	0.014	0.003	0.008	0.007	0.015	0.006	0.003
12:00 PM - 01:00 PM	0.015	0.007	0.012	0.013	0.014	0.004	0.010
01:00 PM - 02:00 PM	0.013	0.009	0.011	0.010	0.012	0.008	0.008
02:00 PM - 03:00 PM	0.010	0.012	0.011	0.007	0.016	0.012	0.007
03:00 PM - 04:00 PM	0.006	0.014	0.010	0.008	0.016	0.017	0.012
04:00 PM - 05:00 PM	0.006	0.013	0.009	0.008	0.016	0.012	0.016
05:00 PM - 06:00 PM	0.006	0.015	0.011	0.008	0.017	0.008	0.014
06:00 PM - 07:00 PM	0.006	0.014	0.011	0.008	0.015	0.008	0.008
07:00 PM - 08:00 PM	0.005	0.007	0.010	0.007	0.011	0.008	0.007
08:00 PM - 09:00 PM	0.005	0.008	0.009	0.006	0.010	0.009	0.007
09:00 PM - 10:00 PM	0.006	0.006	0.006	0.013	0.010	0.008	0.007
10:00 PM - 11:00 PM	0.005	0.006	0.006	0.011	0.009	0.007	0.007
11:00 PM - 12:00 AM	0.004	0.007	0.006	0.009	0.009	0.008	0.006
12:00 AM - 01:00 AM	0.011	0.007	0.010	0.010	0.009	0.008	0.005
01:00 AM - 02:00 AM	0.013	0.006	0.010	0.010	0.009	0.008	0.006
02:00 AM - 03:00 AM	0.016	0.006	0.010	0.013	0.008	0.010	0.006
03:00 AM - 04:00 AM	0.017	0.006	0.008	0.015	0.008	0.008	0.004
04:00 AM - 05:00 AM	0.019	0.004	0.007	0.008	0.006	0.006	0.007
05:00 AM - 06:00 AM	0.019	0.004	0.008	0.008	0.006	0.004	0.009
06:00 AM - 07:00 AM	0.016	0.006	0.007	0.007	0.005	0.005	0.008
07:00 AM - 08:00 AM	0.003	0.004	0.004	0.005	0.004	0.004	0.008
08:00 AM - 09:00 AM	0.003	0.003	0.004	0.004	0.003	0.003	0.007
Average	0.010	0.007	0.008	0.008	0.010	0.007	0.008
1hr - Maximum	0.019	0.015	0.012	0.015	0.017	0.017	0.016
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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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 :

Lot ID: 2250162

Date Received : May 19, 2022

Date Reported : May 25, 2022

Report Number: 2295329-1

Page 1 of 1

Sample Description Air Quality
Location โรงเรียนบ้านมาตาตุด (โสกธาราษฎร์นุรักษ์)
Parameter Nitrogen dioxide (ppm)
Measurement Date May 06, 2022 - May 13, 2022
Measurement by Anurak Tongkhajonsakda

	2250162-1 May 06, 2022	2250162-2 May 07, 2022	2250162-3 May 08, 2022	2250162-4 May 09, 2022	2250162-5 May 10, 2022	2250162-6 May 11, 2022	2250162-7 May 12, 2022
Time							
11:00 AM - 12:00 PM	0.003	0.011	<0.001	0.007	0.004	0.004	0.026
12:00 PM - 01:00 PM	0.010	0.012	0.002	0.008	0.003	0.004	0.003
01:00 PM - 02:00 PM	0.019	0.009	0.004	0.011	0.002	0.007	0.005
02:00 PM - 03:00 PM	0.017	0.006	0.009	0.010	0.003	0.008	0.006
03:00 PM - 04:00 PM	0.018	0.005	0.011	0.014	0.004	0.006	0.005
04:00 PM - 05:00 PM	0.016	0.004	0.014	0.015	0.006	0.007	0.006
05:00 PM - 06:00 PM	0.013	0.004	0.015	0.004	0.008	0.004	0.006
06:00 PM - 07:00 PM	0.007	0.003	0.003	0.005	0.012	0.004	0.006
07:00 PM - 08:00 PM	0.006	0.005	0.003	0.005	0.005	0.004	0.005
08:00 PM - 09:00 PM	0.006	0.005	0.003	0.004	0.002	0.004	0.006
09:00 PM - 10:00 PM	0.005	0.005	0.002	0.004	0.002	0.002	0.005
10:00 PM - 11:00 PM	0.005	0.006	0.002	0.004	0.004	0.002	0.006
11:00 PM - 12:00 AM	0.005	0.003	0.002	0.004	0.005	0.003	0.006
12:00 AM - 01:00 AM	0.006	<0.001	0.002	0.003	0.008	0.004	0.006
01:00 AM - 02:00 AM	0.006	0.009	0.003	0.007	0.006	0.004	0.005
02:00 AM - 03:00 AM	0.007	0.006	0.003	0.006	0.006	0.004	0.004
03:00 AM - 04:00 AM	0.003	0.006	0.005	0.006	0.020	0.004	0.004
04:00 AM - 05:00 AM	0.002	0.005	0.006	0.005	0.014	0.004	0.004
05:00 AM - 06:00 AM	0.002	0.005	0.006	0.005	0.011	0.003	0.003
06:00 AM - 07:00 AM	<0.001	0.011	0.006	0.006	0.008	0.003	0.003
07:00 AM - 08:00 AM	0.003	0.003	0.006	0.005	0.005	0.003	0.003
08:00 AM - 09:00 AM	0.004	0.001	0.004	0.002	0.005	0.003	0.002
09:00 AM - 10:00 AM	0.004	<0.001	0.006	0.002	0.004	0.005	0.003
10:00 AM - 11:00 AM	0.004	<0.001	0.008	0.002	0.003	0.009	0.002
Average	0.007	0.005	0.005	0.006	0.006	0.004	0.005
1hr - Maximum	0.019	0.012	0.015	0.015	0.020	0.009	0.026
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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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 : 2250249

Date Received : May 19, 2022

Date Reported : May 27, 2022

Report Number : 2295572-1

P/O :

Project Name : Environmental Monitoring

Project Location : TPE Site 1

Page 1 of 2

Sample Number : 2250249-1 to 7
Parameter : Wind Speed / Wind Direction
Location : อาคารสำนักงานของกลุ่มโรงงาน TPE (Site 1)
Sampling Date : May 06 - May 13, 2022
Sampling by : Anurak Tongkhajonsakda

Time	May 06 - May 07, 2022			May 07 - May 08, 2022			May 08 - May 09, 2022			May 09 - May 10, 2022			May 10 - May 11, 2022			May 11 - May 12, 2022			May 12 - May 13, 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	0.6	157.0	SSE	2.0	35.0	NE	1.3	232.0	SW	1.9	82.0	E	1.0	257.0	WSW	2.0	347.0	NNW	1.3	84.0	E
10:00 AM - 11:00 AM	1.2	85.0	E	1.3	94.0	E	1.3	4.0	N	0.4	40.0	NE	1.2	179.0	S	1.4	17.0	NNE	1.2	100.0	E
11:00 AM - 12:00 PM	1.3	241.0	WSW	1.6	209.0	SSW	1.2	271.0	W	2.0	94.0	E	0.9	287.0	WNW	0.6	11.0	N	2.0	123.0	ESE
12:00 PM - 01:00 PM	2.0	137.0	SE	0.5	111.0	ESE	1.0	30.0	NNE	0.3	186.0	S	2.1	347.0	NNW	0.4	123.0	ESE	1.1	334.0	NNW
01:00 PM - 02:00 PM	1.4	194.0	SSW	0.9	146.0	SE	1.4	127.0	SE	2.1	176.0	S	4.0	335.0	NNW	0.2	-	-	0.8	173.0	S
02:00 PM - 03:00 PM	1.0	88.0	E	1.0	142.0	SE	2.0	165.0	SSE	1.0	222.0	SW	1.3	358.0	N	0.3	69.0	ENE	0.9	64.0	ENE
03:00 PM - 04:00 PM	1.3	162.0	SSE	1.2	145.0	SE	1.0	184.0	S	1.3	103.0	ESE	1.7	0.0	N	1.1	233.0	SW	1.0	27.0	NNE
04:00 PM - 05:00 PM	0.6	123.0	ESE	0.5	148.0	SSE	0.6	143.0	SE	0.5	238.0	WSW	0.6	8.0	N	1.8	181.0	S	1.4	36.0	NE
05:00 PM - 06:00 PM	0.8	189.0	S	1.1	215.0	SW	2.0	121.0	ESE	0.9	165.0	SSE	1.3	10.0	N	1.6	192.0	SSW	1.0	225.0	SW
06:00 PM - 07:00 PM	3.3	185.0	S	0.6	168.0	SSE	0.9	159.0	SSE	2.0	150.0	SSE	2.0	78.0	ENE	1.3	193.0	SSW	0.6	102.0	ESE
07:00 PM - 08:00 PM	1.3	163.0	SSE	0.7	67.0	ENE	0.3	164.0	SSE	1.1	145.0	SE	1.7	168.0	SSE	0.6	177.0	S	0.7	102.0	ESE
08:00 PM - 09:00 PM	0.4	219.0	SW	1.2	206.0	SSW	0.4	177.0	S	1.6	268.0	W	0.5	173.0	S	0.4	108.0	ESE	0.2	-	-
09:00 PM - 10:00 PM	1.0	120.0	ESE	1.3	70.0	ENE	1.0	69.0	ENE	0.3	133.0	SE	2.0	76.0	ENE	0.2	-	-	0.6	99.0	E
10:00 PM - 11:00 PM	1.2	180.0	S	0.6	69.0	ENE	0.5	68.0	ENE	0.5	249.0	WSW	0.4	13.0	NNE	0.6	110.0	ESE	0.3	98.0	E
11:00 PM - 12:00 AM	0.3	162.0	SSE	0.4	136.0	SE	0.6	67.0	ENE	0.7	174.0	S	1.0	17.0	NNE	0.2	-	-	0.2	-	-
12:00 AM - 01:00 AM	0.6	67.0	ENE	0.3	70.0	ENE	0.2	-	-	0.3	150.0	SSE	0.3	17.0	NNE	0.3	107.0	ESE	0.6	97.0	E
01:00 AM - 02:00 AM	0.4	195.0	SSW	0.2	-	-	0.3	68.0	ENE	0.2	-	-	0.6	17.0	NNE	0.4	110.0	ESE	0.4	106.0	ESE
02:00 AM - 03:00 AM	0.2	-	-	0.6	67.0	ENE	0.1	-	-	0.6	72.0	ENE	0.2	-	-	0.2	-	-	0.2	-	-
03:00 AM - 04:00 AM	0.3	196.0	SSW	0.4	68.0	ENE	0.4	67.0	ENE	0.4	73.0	ENE	0.6	27.0	NNE	0.6	108.0	ESE	0.4	107.0	ESE
04:00 AM - 05:00 AM	0.5	58.0	ENE	0.3	68.0	ENE	0.6	68.0	ENE	0.2	-	-	0.4	28.0	NNE	0.4	108.0	ESE	0.3	108.0	ESE
05:00 AM - 06:00 AM	1.0	60.0	ENE	0.2	-	-	0.5	68.0	ENE	0.6	73.0	ENE	0.6	27.0	NNE	0.3	108.0	ESE	0.2	-	-
06:00 AM - 07:00 AM	0.6	63.0	ENE	0.3	67.0	ENE	0.2	-	-	0.3	73.0	ENE	1.0	28.0	NNE	0.2	-	-	0.1	-	-
07:00 AM - 08:00 AM	1.9	11.0	N	1.3	237.0	WSW	1.2	192.0	SSW	0.7	92.0	E	0.4	14.0	NNE	1.7	53.0	NE	0.9	134.0	SE
08:00 AM - 09:00 AM	0.5	50.0	NE	2.0	264.0	W	1.5	253.0	WSW	1.1	187.0	S	0.3	357.0	N	1.5	57.0	ENE	1.0	132.0	SE

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 : 2250249

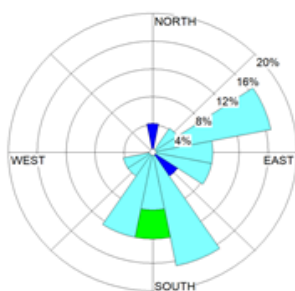
Date Received : May 19, 2022

Date Reported : May 27, 2022

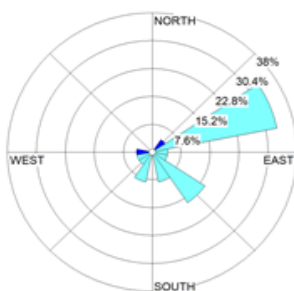
Report Number : 2295572-1

Page 2 of 2

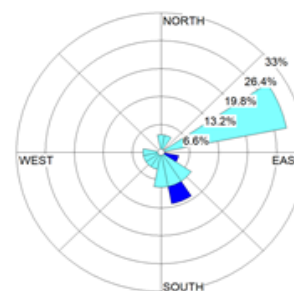
Wind Rose



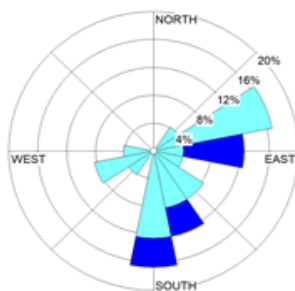
Date : May 06-07, 2022



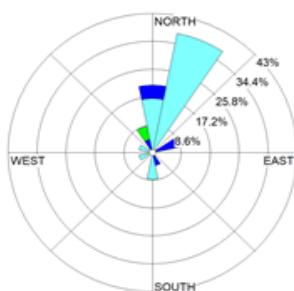
Date : May 07-08, 2022



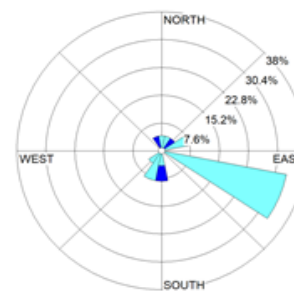
Date : May 08-09, 2022



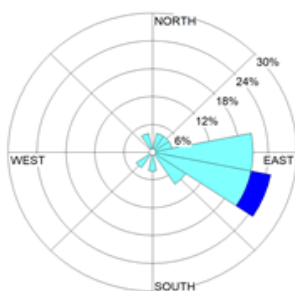
Date : May 09-10, 2022



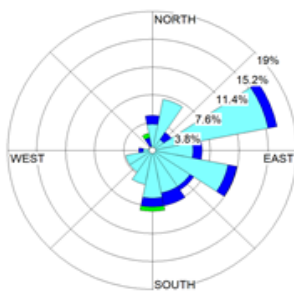
Date : May 10-11, 2022



Date : May 11-12, 2022



Date : May 12-13, 2022



Date : May 06-13, 2022

WS(m/s)	%
≥ 10.0	0.00
8.0-10.0	0.00
5.5-8.0	0.00
3.3-5.5	1.19
1.7-3.3	11.31
0.3-1.7	76.19
Calms	11.31

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Approved by

Sarayuth Jittrantont
Assistant General Manager

ภาคผนวก ค-2

คุณภาพน้ำทิ้ง



Analysis / Test Report

TESTING

No.0042

Lot ID: 21136254

Date Received : Jan 14, 2022

Date Reported : Jan 21, 2022

Report Number : 2152693-1

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	21136254-1
Sampled Date	Jan 14, 2022 9:45 AM
Sample Description	Wastewater
Location	PP2 : หลังผ่าน API Separator
Date Analysis Commenced	Jan 14, 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	5	≤20	APHA (2017), 5210 B	Rayong
COD	mg/L	1.5	5	46	≤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	13	≤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	-	-	32.3	≤40	Based on APHA (2017), 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	724	≤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).

Sampled By : Paramet Sattayakun , 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.

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: 21136254

Date Received : Jan 14, 2022

Date Reported : Jan 21, 2022

Report Number : 2152693-2

Page 1 of 1

Sample Number	21136254-1						
Sampled Date	Jan 14, 2022 9:45 AM						
Sample Description	Wastewater						
Location	PP2 : หลังผ่าน API Separator						
Date Analysis Commenced	Jan 14, 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	410	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	5.85	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 :

- LOD : Limit of Detection
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Approved by

Narin Saiseng
Supervisor



Analysis / Test Report

TESTING

No.0042

Lot ID: 21148981

Date Received : Feb 04, 2022

Date Reported : Feb 11, 2022

Report Number : 2183848-1

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	21148981-1
Sampled Date	Feb 04, 2022 9:40 AM
Sample Description	Wastewater
Location	PP2 : หลังผ่าน API Separator
Date Analysis Commenced	Feb 04, 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	9	≤20	APHA (2017), 5210 B	Rayong
COD	mg/L	1.5	5	68	≤120	APHA (2017), 5220 D	Rayong
Color (at Original pH)	ADMI	-	5	14	≤300	APHA (2017), 2120 F	Rayong
Color (at pH 7.0)	ADMI	-	5	13	≤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		-	-	6.9	5.5-9.0	Based on APHA (2017), 4500-H (B)	Rayong
Temperature *	Degree C	-	-	33.0	≤40	Based on APHA (2017), 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	680	≤3000	APHA (2017), 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	14	≤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.

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: 21148981

Date Received : Feb 04, 2022

Date Reported : Feb 11, 2022

Report Number : 2183848-2

Page 1 of 1

Sample Number	21148981-1
Sampled Date	Feb 04, 2022 9:40 AM
Sample Description	Wastewater
Location	PP2 : หลังผ่าน API Separator
Date Analysis Commenced	Feb 04, 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	177	No Standard	Based on APHA (2017), 4500-Cl (D)	Rayong
Flow rate	m3/s	-	-	0.002	No Standard	Flow meter	Rayong
Total Organic Carbon	mg/L	0.01	0.1	16.8	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 :

- LOD : Limit of Detection
- "<" : 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: 2221418

Date Received : Mar 04, 2022

Date Reported : Mar 11, 2022

Report Number : 2235201-1

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	2221418-1
Sampled Date	Mar 04, 2022 10:10 AM
Sample Description	Wastewater
Location	PP2 : หลังผ่าน API Separator
Date Analysis Commenced	Mar 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	3	≤20	APHA (2017), 5210 B	Rayong
COD	mg/L	1.5	5	39	≤120	APHA (2017), 5220 D	Rayong
Color (at Original pH)	ADMI	-	5	14	≤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		-	-	7.5	5.5-9.0	Based on APHA (2017), 4500-H (B)	Rayong
Temperature *	Degree C	-	-	33.3	≤40	Based on APHA (2017), 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	672	≤3000	APHA (2017), 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	13	≤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 :

- 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

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: 2221418

Date Received : Mar 04, 2022

Date Reported : Mar 11, 2022

Report Number : 2235201-2

Page 1 of 1

Sample Number	2221418-1
Sampled Date	Mar 04, 2022 10:10 AM
Sample Description	Wastewater
Location	PP2 : หลังผ่าน API Separator
Date Analysis Commenced	Mar 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	171	No Standard	Based on APHA (2017), 4500-Cl (D)	Rayong
Flow rate	m3/s	-	-	0.0058	No Standard	Flow meter	Rayong
Total Organic Carbon	mg/L	0.01	0.1	10.1	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 :

- 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

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: 2231500

Date Received : Apr 07, 2022

Date Reported : Apr 19, 2022

Report Number : 2255138-1

Page 1 of 1

Sample Number	2231500-1
Sampled Date	Apr 07, 2022 2:40 PM
Sample Description	Wastewater
Location	PP2 : หลังผ่าน API Separator
Date Analysis Commenced	Apr 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	5	≤20	APHA (2017), 5210 B	Rayong
COD	mg/L	1.5	5	44	≤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	9	≤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		-	-	8.3	5.5-9.0	Based on APHA (2017), 4500-H (B)	Rayong
Temperature *	Degree C	-	-	35.0	≤40	Based on APHA (2017), 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	684	≤3000	APHA (2017), 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	12	≤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 , 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

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: 2231500

Date Received : Apr 07, 2022

Date Reported : Apr 19, 2022

Report Number : 2255138-2

Page 1 of 1

Sample Number	2231500-1						
Sampled Date	Apr 07, 2022 2:40 PM						
Sample Description	Wastewater						
Location	PP2 : หลังผ่าน API Separator						
Date Analysis Commenced	Apr 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	160	No Standard	Based on APHA (2017), 4500-Cl (D)	Rayong
Flow rate	m3/s	-	-	0.008	No Standard	Flow meter	Rayong
Total Organic Carbon	mg/L	0.01	0.1	11.4	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 , Thanasoun Namakunna

Remark :

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

Approved by

N. Banongkit

Narumon Banchongkit
Supervisor

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Analysis / Test Report

TESTING

No.0042

Lot ID: 2250288

Date Received : May 23, 2022

Date Reported : May 30, 2022

Report Number : 2295698-1

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	2250288-1
Sampled Date	May 23, 2022 2:40 PM
Sample Description	Wastewater
Location	PP2 : หลังผ่าน API Separator
Date Analysis Commenced	May 23, 2022
Condition of Sample	Contained in three plastic bottles, one amber glass bottle 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	36	≤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		-	-	7.5	5.5-9.0	Based on APHA (2017), 4500-H (B)	Rayong
Temperature *	Degree C	-	-	33.4	≤40	Based on APHA (2017), 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	280	≤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 :

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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: 2250288

Date Received : May 23, 2022

Date Reported : May 31, 2022

Report Number : 2295698-2

Page 1 of 1

Sample Number	2250288-1
Sampled Date	May 23, 2022 2:40 PM
Sample Description	Wastewater
Location	PP2 : หลังฝ่าน API Separator
Date Analysis Commenced	May 23, 2022
Condition of Sample	Contained in three plastic bottles, one amber glass bottle 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	180	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	5.07	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

Siriluk P.

Siriluk Puenggang
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 :

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 :

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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: 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

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: 21136129
Date Received : Jan 14, 2022
Date Reported : Jan 21, 2022
Report Number : 2152520-1 C4

Page 1 of 1

Sample Number	21136129-1						
Sampling Date	Jan 14, 2022 10:24 AM						
Sample Description	Wastewater						
Location	รางระบายน้ำรวม						
Date Analysis Commenced	Jan 14, 2022						
Condition of Sample	Contained in one amber glass bottle, three plastic bottles and four 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	31	≤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	13	≤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	-	-	31.2	≤40	Based on APHA (2017), 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	648	≤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).

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: 21136129

Date Received : Jan 14, 2022

Date Reported : Jan 21, 2022

Report Number : 2152520-2 C4

Page 1 of 1

Sample Number	21136129-1						
Sampling Date	Jan 14, 2022 10:24 AM						
Sample Description	Wastewater						
Location	รางระบายน้ำรวม						
Date Analysis Commenced	Jan 14, 2022						
Condition of Sample	Contained in one amber glass bottle, three plastic bottles and four 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	263	No Standard	Based on APHA (2017), 4500-Cl (D)	Rayong
Total Organic Carbon	mg/L	0.01	0.1	11.7	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 :

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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: 21148866
Date Received : Feb 04, 2022
Date Reported : Feb 12, 2022
Report Number : 2183335-1 C4

Page 1 of 1

Sample Number	21148866-1						
Sampling Date	Feb 04, 2022 10:50 AM						
Sample Description	Wastewater						
Location	รางระบายน้ำรวม						
Date Analysis Commenced	Feb 04, 2022						
Condition of Sample	Contained in one amber glass bottle, three plastic bottles and four 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	37	≤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	12	≤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		-	-	7.5	5.5-9.0	Based on APHA (2017), 4500-H (B)	Rayong
Temperature *	Degree C	-	-	31.3	≤40	Based on APHA (2017), 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	560	≤3000	APHA (2017), 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	20	≤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 : Wanlop Hunchainaow , Thanasoun Namakunna

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: 21148866

Date Received : Feb 04, 2022

Date Reported : Feb 12, 2022

Report Number : 2183335-2 C4

Page 1 of 1

Sample Number	21148866-1						
Sampling Date	Feb 04, 2022 10:50 AM						
Sample Description	Wastewater						
Location	รางระบายน้ำรวม						
Date Analysis Commenced	Feb 04, 2022						
Condition of Sample	Contained in one amber glass bottle, three plastic bottles and four 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	165	No Standard	Based on APHA (2017), 4500-Cl (D)	Rayong
Total Organic Carbon	mg/L	0.01	0.1	11.3	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 : Wanlop Hunchainaow , Thanasoun Namakunna

Remark :

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Approved by

Nanthawadee Somboon
Specialist 1



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: 2221262
Date Received : Mar 04, 2022
Date Reported : Mar 17, 2022
Report Number : 2234947-1 C4

Page 1 of 1

Sample Number	2221262-1						
Sampling Date	Mar 04, 2022 11:10 AM						
Sample Description	Wastewater						
Location	รางระบายน้ำรวม						
Date Analysis Commenced	Mar 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	2	≤20	APHA (2017), 5210 B	Rayong
COD	mg/L	1.5	5	37	≤120	APHA (2017), 5220 D	Rayong
Color (at Original pH)	ADMI	-	5	18	≤300	APHA (2017), 2120 F	Rayong
Color (at pH 7.0)	ADMI	-	5	17	≤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	-	-	32.2	≤40	Based on APHA (2017), 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	820	≤3000	APHA (2017), 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	12	≤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 :

- 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

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: 2221262

Date Received : Mar 04, 2022
Date Reported : Mar 17, 2022
Report Number : 2234947-2 C4

Page 1 of 1

Sample Number	2221262-1						
Sampling Date	Mar 04, 2022 11:10 AM						
Sample Description	Wastewater						
Location	รางระบายน้ำรวม						
Date Analysis Commenced	Mar 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	181	No Standard	Based on APHA (2017), 4500-Cl (D)	Rayong
Total Organic Carbon	mg/L	0.01	0.1	12.9	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 :

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

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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: 2230680
Date Received : Apr 01, 2022
Date Reported : May 03, 2022
Report Number : 2253752-1 C4

Page 1 of 1

Sample Number	2230680-1						
Sampling Date	Apr 01, 2022 10:40 AM						
Sample Description	Wastewater						
Location	รางระบายน้ำรวม						
Date Analysis Commenced	Apr 01, 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	APHA (2017), 5210 B	Rayong
COD	mg/L	1.5	5	30	≤120	APHA (2017), 5220 D	Rayong
Color (at Original pH)	ADMI	-	5	17	≤300	APHA (2017), 2120 F	Rayong
Color (at pH 7.0)	ADMI	-	5	17	≤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		-	-	7.3	5.5-9.0	Based on APHA (2017), 4500-H (B)	Rayong
Temperature *	Degree C	-	-	29.9	≤40	Based on APHA (2017), 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	580	≤3000	APHA (2017), 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	8	≤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: 2230680

Date Received : Apr 01, 2022
Date Reported : May 03, 2022
Report Number : 2253752-2 C4

Page 1 of 1

Sample Number	2230680-1						
Sampling Date	Apr 01, 2022 10:40 AM						
Sample Description	Wastewater						
Location	รางระบายน้ำรวม						
Date Analysis Commenced	Apr 01, 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	133	No Standard	Based on APHA (2017), 4500-Cl (D)	Rayong
Total Organic Carbon	mg/L	0.01	0.1	9.46	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

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: 2250004

Date Received : May 06, 2022
Date Reported : May 18, 2022
Report Number : 2294643-1 C4

Page 1 of 1

Sample Number	2250004-1						
Sampling Date	May 06, 2022 10:03 AM						
Sample Description	Wastewater						
Location	รางระบายน้ำรวม						
Date Analysis Commenced	May 06, 2022						
Condition of Sample	Contained in one amber glass bottle, three plastic bottles and four 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	26	≤120	APHA (2017), 5220 D	Rayong
Color (at Original pH)	ADMI	-	5	33	≤300	APHA (2017), 2120 F	Rayong
Color (at pH 7.0)	ADMI	-	5	31	≤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		-	-	7.7	5.5-9.0	Based on APHA (2017), 4500-H (B)	Rayong
Temperature *	Degree C	-	-	31.1	≤40	Based on APHA (2017), 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	540	≤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).

Sampling By : Paramet Sattayakun , Thanasoun Namakunna

Remark :

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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: 2250004

Date Received : May 06, 2022
Date Reported : May 18, 2022
Report Number : 2294643-2 C4

Page 1 of 1

Sample Number	2250004-1						
Sampling Date	May 06, 2022 10:03 AM						
Sample Description	Wastewater						
Location	รางระบายน้ำรวม						
Date Analysis Commenced	May 06, 2022						
Condition of Sample	Contained in one amber glass bottle, three plastic bottles and four 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	46.8	No Standard	Based on APHA (2017), 4500-Cl (D)	Rayong
Total Organic Carbon	mg/L	0.01	0.1	10.1	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

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Approved by

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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: 2253601
Date Received : Jun 10, 2022
Date Reported : Jun 18, 2022
Report Number : 2303173-1 C4

Page 1 of 1

Sample Number	2253601-1						
Sampling Date	Jun 10, 2022 11:35 AM						
Sample Description	Wastewater						
Location	รางระบายน้ำรวม						
Date Analysis Commenced	Jun 10, 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	22	≤120	APHA (2017), 5220 D	Rayong
Color (at Original pH)	ADMI	-	5	7	≤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		-	-	7.3	5.5-9.0	Based on APHA (2017), 4500-H (B)	Rayong
Temperature *	Degree C	-	-	33.6	≤40	Based on APHA (2017), 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	352	≤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 : Wanlop Hunchainaow , Thanasoun Namakunna

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: 2253601

Date Received : Jun 10, 2022
Date Reported : Jun 18, 2022
Report Number : 2303173-2 C4

Page 1 of 1

Sample Number	2253601-1						
Sampling Date	Jun 10, 2022 11:35 AM						
Sample Description	Wastewater						
Location	รางระบายน้ำรวม						
Date Analysis Commenced	Jun 10, 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	100	No Standard	Based on APHA (2017), 4500-Cl (D)	Rayong
Total Organic Carbon	mg/L	0.01	0.1	6.85	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 : Wanlop Hunchainaow , Thanasoun Namakunna

Remark :

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Approved by

Nanthawadee Somboon
Specialist 1

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: 2249985

Date Received : May 19, 2022

Date Reported : May 30, 2022

Report Number: 2321691-1C4

Page 1 of 1

Sample Number 2249985-1
Parameter Noise (Leq 24 hrs.)
Location อาคารสำนักงานของกลุ่มโรงงาน TPE Site#1
Measurement Date May 06 - May 07, 2022
Measurement by Anurak Tongkhajonsakda
Sound Level meter Serial No. 1073608

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
09:00 AM - 10:00 AM	60.4	72.7	58.7
10:00 AM - 11:00 AM	60.8	81.0	59.5
11:00 AM - 12:00 PM	61.4	78.4	60.0
12:00 PM - 01:00 PM	65.5	70.3	62.8
01:00 PM - 02:00 PM	67.2	72.4	64.4
02:00 PM - 03:00 PM	67.9	75.8	64.9
03:00 PM - 04:00 PM	53.7	56.8	51.9
04:00 PM - 05:00 PM	60.6	80.3	53.2
05:00 PM - 06:00 PM	62.0	80.6	55.2
06:00 PM - 07:00 PM	60.1	77.8	53.6
07:00 PM - 08:00 PM	56.0	70.0	50.6
08:00 PM - 09:00 PM	56.1	70.4	50.8
09:00 PM - 10:00 PM	62.1	85.7	53.1
10:00 PM - 11:00 PM	61.8	84.6	51.2
11:00 PM - 12:00 AM	59.7	78.3	52.6
12:00 AM - 01:00 AM	60.4	80.2	52.2
01:00 AM - 02:00 AM	60.6	80.2	51.6
02:00 AM - 03:00 AM	65.5	96.6	52.7
03:00 AM - 04:00 AM	63.4	79.7	52.9
04:00 AM - 05:00 AM	55.8	69.0	50.4
05:00 AM - 06:00 AM	55.7	69.9	50.0
06:00 AM - 07:00 AM	54.9	75.9	49.4
07:00 AM - 08:00 AM	53.7	68.3	48.2
08:00 AM - 09:00 AM	58.4	79.1	49.0

Leq Average 24 hrs. (dB(A)) 61.9
Lmax (dB(A)) 96.6
L90 (dB(A)) 52.6
Ldn (dB(A)) 67.7
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: 2249985

Date Received : May 19, 2022

Date Reported : May 30, 2022

Report Number: 2321692-1C4

Page 1 of 1

Sample Number 2249985-2
Parameter Noise (Leq 24 hrs.)
Location อาคารสำนักงานของกลุ่มโรงงาน TPE Site#1
Measurement Date May 07 - May 08, 2022
Measurement by Anurak Tongkhajonsakda
Sound Level meter Serial No. 1073608

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
09:00 AM - 10:00 AM	53.7	73.0	48.1
10:00 AM - 11:00 AM	53.1	66.8	49.6
11:00 AM - 12:00 PM	54.9	70.3	49.7
12:00 PM - 01:00 PM	54.9	65.5	49.5
01:00 PM - 02:00 PM	51.9	65.9	46.8
02:00 PM - 03:00 PM	53.2	64.0	48.5
03:00 PM - 04:00 PM	51.5	66.6	45.9
04:00 PM - 05:00 PM	52.3	71.7	46.1
05:00 PM - 06:00 PM	51.9	71.6	45.2
06:00 PM - 07:00 PM	50.7	67.7	45.0
07:00 PM - 08:00 PM	50.1	67.5	44.3
08:00 PM - 09:00 PM	49.6	62.3	44.2
09:00 PM - 10:00 PM	49.8	63.2	43.8
10:00 PM - 11:00 PM	48.2	59.4	44.0
11:00 PM - 12:00 AM	48.7	65.3	42.6
12:00 AM - 01:00 AM	47.6	65.2	42.9
01:00 AM - 02:00 AM	46.9	63.1	42.7
02:00 AM - 03:00 AM	48.4	62.0	43.2
03:00 AM - 04:00 AM	49.8	71.5	43.3
04:00 AM - 05:00 AM	48.1	63.9	43.2
05:00 AM - 06:00 AM	46.9	66.4	43.1
06:00 AM - 07:00 AM	60.1	84.5	51.7
07:00 AM - 08:00 AM	63.1	83.2	51.7
08:00 AM - 09:00 AM	52.4	69.5	46.1

Leq Average 24 hrs. (dB(A)) 54.0
Lmax (dB(A)) 84.5
L90 (dB(A)) 45.0
Ldn (dB(A)) 59.2
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

Suppt 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: 2249985

Date Received : May 19, 2022

Date Reported : May 30, 2022

Report Number: 2321693-1C4

Page 1 of 1

Sample Number 2249985-3
Parameter Noise (Leq 24 hrs.)
Location อาคารสำนักงานของกลุ่มโรงงาน TPE Site#1
Measurement Date May 08 - May 09, 2022
Measurement by Anurak Tongkhajonsakda
Sound Level meter Serial No. 1073608

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
09:00 AM - 10:00 AM	59.1	80.3	46.9
10:00 AM - 11:00 AM	48.0	65.4	42.6
11:00 AM - 12:00 PM	46.5	58.7	42.9
12:00 PM - 01:00 PM	44.0	56.2	42.4
01:00 PM - 02:00 PM	44.1	53.8	42.2
02:00 PM - 03:00 PM	58.7	79.1	52.6
03:00 PM - 04:00 PM	63.4	83.0	53.8
04:00 PM - 05:00 PM	53.6	72.2	48.2
05:00 PM - 06:00 PM	60.1	78.9	50.9
06:00 PM - 07:00 PM	44.1	57.7	40.9
07:00 PM - 08:00 PM	46.2	65.4	41.5
08:00 PM - 09:00 PM	45.1	58.2	41.7
09:00 PM - 10:00 PM	43.9	55.4	40.9
10:00 PM - 11:00 PM	47.7	69.3	41.9
11:00 PM - 12:00 AM	47.6	64.1	43.2
12:00 AM - 01:00 AM	47.0	60.1	43.2
01:00 AM - 02:00 AM	47.8	65.8	43.3
02:00 AM - 03:00 AM	52.7	70.5	45.1
03:00 AM - 04:00 AM	51.7	68.3	44.9
04:00 AM - 05:00 AM	49.6	63.6	44.8
05:00 AM - 06:00 AM	50.8	65.3	44.5
06:00 AM - 07:00 AM	52.5	72.5	45.4
07:00 AM - 08:00 AM	51.3	63.9	46.8
08:00 AM - 09:00 AM	53.6	72.4	48.6

Leq Average 24 hrs. (dB(A)) 54.4
Lmax (dB(A)) 83.0
L90 (dB(A)) 43.3
Ldn (dB(A)) 58.0
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: 21148968

Date Received : Feb 18, 2022

Date Reported : Mar 02, 2022

Report Number : 2183786-1

Page 1 of 3

Sample Number	21148968-1
Sampled Date	Feb 17, 2022
Sample Description	Air Quality
Location	หน่วยโพลีเอทิลีน
Date Analysis Commenced	Feb 19, 2022
Condition of Sample	Drawn into two 10-L air sampling bags and one sorbent tube, refrigerated
Barometric Pressure	760 mmHg
Atmospheric Temperature	30.0 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Ethylene	10:00 AM - 12:00 PM	ppm	-	1.0	<1.0	200	Based on ASTM, D 2712-91	ACGIH	Bangkok
n-Hexane	10:00 AM - 12:00 PM	ppm	-	0.03	<0.03	500	NIOSH (1994), 1500	MOL	Bangkok
Propylene	10:00 AM - 12:00 PM	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 : Nantawat Sarin

Remark :

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

Approved by

Saranya C.

Saranya Chalermtamrong
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: 21148968

Date Received : Feb 18, 2022

Date Reported : Mar 02, 2022

Report Number : 2183786-1

Page 2 of 3

Sample Number 21148968-2
Sampled Date Feb 17, 2022
Sample Description Air Quality
Location หน่วยบรรจุผลิตภัณฑ์
Date Analysis Commenced Feb 19, 2022
Condition of Sample Drawn into one filter paper placed in plastic cassette
Barometric Pressure 760 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	10:00 AM - 12:00 PM	mg/m3	-	0.15	0.17	15	Based on NIOSH (1994), 0500	OSHA	Rayong

Guideline :

OSHA : Occupational Safety and Health Administration

Sampled By : Nantawat Sarin

Remark :

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

Approved by

Saranya C.

Saranya Chalermtamrong
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: 21148968

Date Received : Feb 18, 2022

Date Reported : Mar 02, 2022

Report Number : 2183786-1

Page 3 of 3

Sample Number	21148968-3
Sampled Date	Feb 17, 2022
Sample Description	Air Quality
Location	Extruder (หน่วยดัดเม็ด)
Date Analysis Commenced	Feb 19, 2022
Condition of Sample	Drawn into two 10-L air sampling bags and one sorbent tube, refrigerated
Barometric Pressure	760 mmHg
Atmospheric Temperature	30.0 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Ethylene	10:00 AM - 12:00 PM	ppm	-	1.0	<1.0	200	Based on ASTM, D 2712-91	ACGIH	Bangkok
n-Hexane	10:00 AM - 12:00 PM	ppm	-	0.03	0.12	500	NIOSH (1994), 1500	MOL	Bangkok
Propylene	10:00 AM - 12:00 PM	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 : Nantawat Sarin

Remark :

- LOD : Limit of Detection
- "<" : 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: 2250281

Date Received : May 17, 2022

Date Reported : May 27, 2022

Report Number : 2295688-1

Page 1 of 3

Sample Number 2250281-1
Sampled Date May 13, 2022
Sample Description Air Quality
Location หน่วยโพลีเอทิลีน
Date Analysis Commenced May 18, 2022
Condition of Sample Drawn into two 10-L air sampling bags and one sorbent tube, refrigerated
Barometric Pressure 756 mmHg
Atmospheric Temperature 32.0 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Ethylene	10:00 AM - 12:00 PM	ppm	-	1.0	<1.0	200	Based on ASTM, D 2712-91	ACGIH	Bangkok
n-Hexane	10:00 AM - 12:00 PM	ppm	-	0.03	<0.03	500	NIOSH (1994), 1500	MOL	Bangkok
Propylene	10:00 AM - 12:00 PM	ppm	-	1.0	3.0	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 : Apichart Wilars

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: 2250281

Date Received : May 17, 2022

Date Reported : May 27, 2022

Report Number : 2295688-1

Page 2 of 3

Sample Number 2250281-2
Sampled Date May 13, 2022
Sample Description Air Quality
Location หน่วยบรรจุผลิตภัณฑ์
Date Analysis Commenced May 17, 2022
Condition of Sample Drawn into one filter paper placed in plastic cassette
Barometric Pressure 756 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	10:00 AM - 12:00 PM	mg/m3	-	0.15	<0.15	15	Based on NIOSH (1994), 0500	OSHA	Rayong

Guideline :

OSHA : Occupational Safety and Health Administration

Sampled By : Apichart Wilars

Remark :

- LOD : Limit of Detection
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Scientist (4)



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: 2250281

Date Received : May 17, 2022

Date Reported : May 27, 2022

Report Number : 2295688-1

Page 3 of 3

Sample Number 2250281-3
Sampled Date May 13, 2022
Sample Description Air Quality
Location Extruder (หน่วยดัดเม็ด)
Date Analysis Commenced May 18, 2022
Condition of Sample Drawn into two 10-L air sampling bags and one sorbent tube, refrigerated
Barometric Pressure 756 mmHg
Atmospheric Temperature 32.0 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Ethylene	10:00 AM - 12:00 PM	ppm	-	1.0	<1.0	200	Based on ASTM, D 2712-91	ACGIH	Bangkok
n-Hexane	10:00 AM - 12:00 PM	ppm	-	0.03	0.06	500	NIOSH (1994), 1500	MOL	Bangkok
Propylene	10:00 AM - 12:00 PM	ppm	-	1.0	<1.0	500	Based on ASTM, D 2712-91	ACGIH	Bangkok

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Sampled By : Apichart Wilars

Remark :

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

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