

## ภาคผนวก ค

ใบรับรองผลการตรวจวิเคราะห์

# ภาคผนวก ค-1

คุณภาพอากาศจากปล่องระบาย



## 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 :** LDPE

**Lot ID: 2250401**

Date Received : May 10, 2022

Date Reported : May 23, 2022

Report Number: 2295979-1

Page 1 of 1

**Sample Number** 2250401-1  
**Sampled Date** May 09, 2022  
**Sample Description** Emission from Stationary Source  
**Location** Degassing Hopper(TK-234A/B/C/D)  
**Date Analysis Commenced** May 11, 2022  
**Condition of Sample** Extracted into one 10-L air sampling bag

### Stack Description

Ambient Pressure	758	mmHg	Diameter	0.10	m	Oxygen	20.9	%
Ambient Temperature	32.0	°C	Shape	Circle		Carbon Dioxide	0.0	%
Type of Process	Process		Stack Temperature	30.0	°C	Gas Velocity	-	m/s
Type of Fuel	-		Moisture	100	%	Flow Rate (Actual O2)	-	Nm3/hr

Analyte	Sampled Time	Unit	LOD	LOQ (LOR)	Result	Method	Testing Location
<b>Air Testing</b>							
Ethylene	11:00 AM - 11:10 AM	ppm	-	1.0	<1.0	Gas Chromatography	Bangkok
Propane	11:00 AM - 11:10 AM	ppm	-	1.0	<1.0	Gas Chromatography	Bangkok

**Sampled By :** Thitipong Buadaeng

Remark :

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

Approved by

Sararat Mongkonjirawut  
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 :** LDPE

**Lot ID: 2250396**

Date Received : May 10, 2022

Date Reported : May 23, 2022

Report Number: 2295971-1

Page 1 of 1

**Sample Number** 2250396-1  
**Sampled Date** May 09, 2022  
**Sample Description** Emission from Stationary Source  
**Location** Weigh Hopper (TK-229 A/B/C/D)  
**Date Analysis Commenced** May 11, 2022  
**Condition of Sample** Extracted into one 10-L air sampling bag

### Stack Description

Ambient Pressure	758	mmHg	Diameter	0.70	m	Oxygen	20.9	%
Ambient Temperature	32.0	°C	Shape	Circle		Carbon Dioxide	0.0	%
Type of Process	Process		Stack Temperature	41.0	°C	Gas Velocity	17.4	m/s
Type of Fuel	-		Moisture	4.86	%	Flow Rate (Actual O2)	21749	Nm3/hr

Analyte	Sampled Time	Unit	LOD	LOQ (LOR)	Result	Method	Testing Location
<b>Air Testing</b>							
Ethylene	10:30 AM - 10:40 AM	ppm	-	1.0	27.0	Gas Chromatography	Bangkok
Propane	10:30 AM - 10:40 AM	ppm	-	1.0	<1.0	Gas Chromatography	Bangkok

**Sampled By :** Thitipong Buadaeng

Remark :

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Approved by

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# ภาคผนวก ค-2

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 :** LDPE

**Lot ID: 2250374**

Date Received : May 19, 2022

Date Reported : May 31, 2022

Report Number : 2295943-1

Page 1 of 14

**Sample Number** 2250374-1  
**Sampled Date** May 06, 2022  
**Sample Description** Air Quality  
**Location** โรงเรียนบ้านหนองแฟบ ทิศทางลมตะวันตกเฉียงใต้  
**Date Analysis Commenced** May 23, 2022  
**Condition of Sample** Drawn into one 25-L air sampling bag

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Method	Testing Location
<b>Air Testing</b>							
Ethylene	06/05/22 - 07/05/22	ppm	-	1.0	<1.0	Based on ASTM, D 2712	Bangkok
Propane	06/05/22 - 07/05/22	ppm	-	1.0	<1.0	Based on ASTM, D2712-18	Bangkok

**Sampled By :** Anurak Tongkhajonsakda

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 :** LDPE

**Lot ID: 2250374**

Date Received : May 19, 2022

Date Reported : May 31, 2022

Report Number : 2295943-1

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**Sample Number** 2250374-2  
**Sampled Date** May 07, 2022  
**Sample Description** Air Quality  
**Location** โรงเรียนบ้านหนองแฟบ ทิศทางลมตะวันตกเฉียงใต้  
**Date Analysis Commenced** May 23, 2022  
**Condition of Sample** Drawn into one 25-L air sampling bag

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Method	Testing Location
<b>Air Testing</b>							
Ethylene	07/05/22 - 08/05/22	ppm	-	1.0	<1.0	Based on ASTM, D 2712	Bangkok
Propane	07/05/22 - 08/05/22	ppm	-	1.0	<1.0	Based on ASTM, D2712-18	Bangkok

**Sampled By :** Anurak Tongkhajonsakda

Remark :

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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 :** LDPE

**Lot ID: 2250374**

Date Received : May 19, 2022

Date Reported : May 31, 2022

Report Number : 2295943-1

Page 3 of 14

**Sample Number** 2250374-3  
**Sampled Date** May 08, 2022  
**Sample Description** Air Quality  
**Location** โรงเรียนบ้านหนองแฟบ ทิศทางลมตะวันตกเฉียงใต้  
**Date Analysis Commenced** May 23, 2022  
**Condition of Sample** Drawn into one 25-L air sampling bag

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Method	Testing Location
<b>Air Testing</b>							
Ethylene	08/05/22 - 09/05/22	ppm	-	1.0	<1.0	Based on ASTM, D 2712	Bangkok
Propane	08/05/22 - 09/05/22	ppm	-	1.0	<1.0	Based on ASTM, D2712-18	Bangkok

**Sampled By :** Anurak Tongkhajonsakda

Remark :

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Approved by

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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 :** LDPE

**Lot ID: 2250374**

Date Received : May 19, 2022

Date Reported : May 31, 2022

Report Number : 2295943-1

Page 4 of 14

**Sample Number** 2250374-4  
**Sampled Date** May 09, 2022  
**Sample Description** Air Quality  
**Location** โรงเรียนบ้านหนองแฟบ ทิศทางลมตะวันตกเฉียงใต้  
**Date Analysis Commenced** May 23, 2022  
**Condition of Sample** Drawn into one 25-L air sampling bag

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Method	Testing Location
<b>Air Testing</b>							
Ethylene	09/05/22 - 10/05/22	ppm	-	1.0	<1.0	Based on ASTM, D 2712	Bangkok
Propane	09/05/22 - 10/05/22	ppm	-	1.0	<1.0	Based on ASTM, D2712-18	Bangkok

**Sampled By :** Anurak Tongkhajonsakda

Remark :

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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 :** LDPE

**Lot ID: 2250374**

Date Received : May 19, 2022

Date Reported : May 31, 2022

Report Number : 2295943-1

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**Sample Number** 2250374-5  
**Sampled Date** May 10, 2022  
**Sample Description** Air Quality  
**Location** โรงเรียนบ้านหนองแฟบ ทิศทางลมตะวันตกเฉียงใต้  
**Date Analysis Commenced** May 23, 2022  
**Condition of Sample** Drawn into one 25-L air sampling bag

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Method	Testing Location
<b>Air Testing</b>							
Ethylene	10/05/22 - 11/05/22	ppm	-	1.0	<1.0	Based on ASTM, D 2712	Bangkok
Propane	10/05/22 - 11/05/22	ppm	-	1.0	<1.0	Based on ASTM, D2712-18	Bangkok

**Sampled By :** Anurak Tongkhajonsakda

Remark :

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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 :** LDPE

**Lot ID: 2250374**

Date Received : May 19, 2022

Date Reported : May 31, 2022

Report Number : 2295943-1

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**Sample Number** 2250374-6  
**Sampled Date** May 11, 2022  
**Sample Description** Air Quality  
**Location** โรงเรียนบ้านหนองแฟบ ทิศทางลมตะวันตกเฉียงใต้  
**Date Analysis Commenced** May 23, 2022  
**Condition of Sample** Drawn into one 25-L air sampling bag

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Method	Testing Location
<b>Air Testing</b>							
Ethylene	11/05/22 - 12/05/22	ppm	-	1.0	<1.0	Based on ASTM, D 2712	Bangkok
Propane	11/05/22 - 12/05/22	ppm	-	1.0	<1.0	Based on ASTM, D2712-18	Bangkok

**Sampled By :** Anurak Tongkhajonsakda

Remark :

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## Analysis / Test Report

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Thailand 21150

**P/O :**

**Project Name :** Environmental Monitoring

**Project Location :** LDPE

**Lot ID: 2250374**

Date Received : May 19, 2022

Date Reported : May 31, 2022

Report Number : 2295943-1

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**Sample Number** 2250374-7  
**Sampled Date** May 12, 2022  
**Sample Description** Air Quality  
**Location** โรงเรียนบ้านหนองแฟบ ทิศทางลมตะวันตกเฉียงใต้  
**Date Analysis Commenced** May 23, 2022  
**Condition of Sample** Drawn into one 25-L air sampling bag

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Method	Testing Location
<b>Air Testing</b>							
Ethylene	12/05/22 - 13/05/22	ppm	-	1.0	<1.0	Based on ASTM, D 2712	Bangkok
Propane	12/05/22 - 13/05/22	ppm	-	1.0	<1.0	Based on ASTM, D2712-18	Bangkok

**Sampled By :** Anurak Tongkhajonsakda

Remark :

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Approved by

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Saranya Chalermthamrong  
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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 :** LDPE

**Lot ID: 2250374**

Date Received : May 19, 2022

Date Reported : May 31, 2022

Report Number : 2295943-1

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**Sample Number** 2250374-8  
**Sampled Date** May 06, 2022  
**Sample Description** Air Quality  
**Location** บ้านมาบชลด ทิศทางลมเหนือ-ใต้  
**Date Analysis Commenced** May 23, 2022  
**Condition of Sample** Drawn into one 25-L air sampling bag

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Method	Testing Location
<b>Air Testing</b>							
Ethylene	06/05/22 - 07/05/22	ppm	-	1.0	<1.0	Based on ASTM, D 2712	Bangkok
Propane	06/05/22 - 07/05/22	ppm	-	1.0	<1.0	Based on ASTM, D2712-18	Bangkok

**Sampled By :** Anurak Tongkhajonsakda

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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 :** LDPE

**Lot ID: 2250374**

Date Received : May 19, 2022

Date Reported : May 31, 2022

Report Number : 2295943-1

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**Sample Number** 2250374-9  
**Sampled Date** May 07, 2022  
**Sample Description** Air Quality  
**Location** บ้านมาบชลด ทิศทางลมเหนือ-ใต้  
**Date Analysis Commenced** May 23, 2022  
**Condition of Sample** Drawn into one 25-L air sampling bag

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Method	Testing Location
<b>Air Testing</b>							
Ethylene	07/05/22 - 08/05/22	ppm	-	1.0	<1.0	Based on ASTM, D 2712	Bangkok
Propane	07/05/22 - 08/05/22	ppm	-	1.0	<1.0	Based on ASTM, D2712-18	Bangkok

**Sampled By :** Anurak Tongkhajonsakda

Remark :

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Saranya Chalermthamrong  
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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 :** LDPE

**Lot ID: 2250374**

Date Received : May 19, 2022

Date Reported : May 31, 2022

Report Number : 2295943-1

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**Sample Number** 2250374-10  
**Sampled Date** May 08, 2022  
**Sample Description** Air Quality  
**Location** บ้านมาบชลด ทิศทางลมเหนือ-ใต้  
**Date Analysis Commenced** May 23, 2022  
**Condition of Sample** Drawn into one 25-L air sampling bag

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Method	Testing Location
<b>Air Testing</b>							
Ethylene	08/05/22 - 09/05/22	ppm	-	1.0	<1.0	Based on ASTM, D 2712	Bangkok
Propane	08/05/22 - 09/05/22	ppm	-	1.0	<1.0	Based on ASTM, D2712-18	Bangkok

**Sampled By :** Anurak Tongkhajonsakda

Remark :

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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 :** LDPE

**Lot ID: 2250374**

Date Received : May 19, 2022

Date Reported : May 31, 2022

Report Number : 2295943-1

Page 11 of 14

**Sample Number** 2250374-11  
**Sampled Date** May 09, 2022  
**Sample Description** Air Quality  
**Location** บ้านมาบชลด ทิศทางลมเหนือ-ใต้  
**Date Analysis Commenced** May 23, 2022  
**Condition of Sample** Drawn into one 25-L air sampling bag

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Method	Testing Location
<b>Air Testing</b>							
Ethylene	09/05/22 - 10/05/22	ppm	-	1.0	<1.0	Based on ASTM, D 2712	Bangkok
Propane	09/05/22 - 10/05/22	ppm	-	1.0	<1.0	Based on ASTM, D2712-18	Bangkok

**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.  
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 :** LDPE

**Lot ID: 2250374**

Date Received : May 19, 2022

Date Reported : May 31, 2022

Report Number : 2295943-1

Page 12 of 14

**Sample Number** 2250374-12  
**Sampled Date** May 10, 2022  
**Sample Description** Air Quality  
**Location** บ้านมาบชลด ทิศทางลมเหนือ-ใต้  
**Date Analysis Commenced** May 23, 2022  
**Condition of Sample** Drawn into one 25-L air sampling bag

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Method	Testing Location
<b>Air Testing</b>							
Ethylene	10/05/22 - 11/05/22	ppm	-	1.0	<1.0	Based on ASTM, D 2712	Bangkok
Propane	10/05/22 - 11/05/22	ppm	-	1.0	<1.0	Based on ASTM, D2712-18	Bangkok

**Sampled By :** Anurak Tongkhajonsakda

Remark :

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

Approved by

*Saranya C.*

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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 :** LDPE

**Lot ID: 2250374**

Date Received : May 19, 2022

Date Reported : May 31, 2022

Report Number : 2295943-1

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**Sample Number** 2250374-13  
**Sampled Date** May 11, 2022  
**Sample Description** Air Quality  
**Location** บ้านมาบชลด ทิศทางลมเหนือ-ใต้  
**Date Analysis Commenced** May 23, 2022  
**Condition of Sample** Drawn into one 25-L air sampling bag

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Method	Testing Location
<b>Air Testing</b>							
Ethylene	11/05/22 - 12/05/22	ppm	-	1.0	<1.0	Based on ASTM, D 2712	Bangkok
Propane	11/05/22 - 12/05/22	ppm	-	1.0	<1.0	Based on ASTM, D2712-18	Bangkok

**Sampled By :** Anurak Tongkhajonsakda

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 :** LDPE

**Lot ID: 2250374**

Date Received : May 19, 2022

Date Reported : May 31, 2022

Report Number : 2295943-1

Page 14 of 14

**Sample Number** 2250374-14  
**Sampled Date** May 12, 2022  
**Sample Description** Air Quality  
**Location** บ้านมาบชลด ทิศทางลมเหนือ-ใต้  
**Date Analysis Commenced** May 23, 2022  
**Condition of Sample** Drawn into one 25-L air sampling bag

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Method	Testing Location
<b>Air Testing</b>							
Ethylene	12/05/22 - 13/05/22	ppm	-	1.0	<1.0	Based on ASTM, D 2712	Bangkok
Propane	12/05/22 - 13/05/22	ppm	-	1.0	<1.0	Based on ASTM, D2712-18	Bangkok

**Sampled By :** Anurak Tongkhajonsakda

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

**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** : 2250249-15 to 21  
**Parameter** : Wind Speed / Wind Direction  
**Location** : โรงเรียนบ้านหนองแฟบ  
**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)	
01:00 PM - 02:00 PM	1.7	226.0	SW	2.2	225.0	SW	1.7	150.0	SSE	1.0	214.0	SW	0.0	-	-	0.4	245.0	WSW	0.0	-	-
02:00 PM - 03:00 PM	0.5	229.0	SW	1.1	214.0	SW	0.7	82.0	E	0.0	-	-	0.4	238.0	WSW	0.0	-	-	0.7	243.0	WSW
03:00 PM - 04:00 PM	2.6	238.0	WSW	1.2	195.0	SSW	0.4	149.0	SSE	0.0	-	-	0.0	-	-	0.5	223.0	SW	1.2	262.0	W
04:00 PM - 05:00 PM	1.9	216.0	SW	3.6	178.0	S	1.2	145.0	SE	0.5	37.0	NE	0.0	-	-	0.6	243.0	WSW	0.8	350.0	N
05:00 PM - 06:00 PM	4.3	225.0	SW	0.9	241.0	WSW	1.2	137.0	SE	0.1	-	-	0.0	-	-	0.3	80.0	E	1.0	292.0	WNW
06:00 PM - 07:00 PM	1.6	219.0	SW	1.6	203.0	SSW	0.2	-	-	0.0	-	-	0.2	-	-	0.0	-	-	0.0	-	-
07:00 PM - 08:00 PM	2.8	192.0	SSW	1.6	203.0	SSW	0.0	-	-	0.0	-	-	0.2	-	-	0.0	-	-	0.5	318.0	NW
08:00 PM - 09:00 PM	1.3	173.0	S	3.8	204.0	SSW	0.0	-	-	0.5	112.0	ESE	0.3	174.0	S	0.3	89.0	E	1.0	287.0	WNW
09:00 PM - 10:00 PM	1.5	229.0	SW	0.9	189.0	S	0.0	-	-	0.2	-	-	0.1	-	-	0.1	-	-	0.0	-	-
10:00 PM - 11:00 PM	3.3	164.0	SSE	0.7	234.0	SW	0.0	-	-	0.0	-	-	0.2	-	-	0.3	201.0	SSW	0.4	348.0	NNW
11:00 PM - 12:00 AM	0.5	226.0	SW	0.9	200.0	SSW	0.2	-	-	0.0	-	-	0.0	-	-	0.1	-	-	0.7	281.0	W
12:00 AM - 01:00 AM	2.9	191.0	S	0.7	206.0	SSW	1.6	115.0	ESE	0.0	-	-	0.0	-	-	0.2	-	-	0.0	-	-
01:00 AM - 02:00 AM	1.2	170.0	S	1.2	228.0	SW	3.0	158.0	SSE	0.5	93.0	E	0.3	205.0	SSW	0.2	-	-	0.0	-	-
02:00 AM - 03:00 AM	2.1	192.0	SSW	0.8	212.0	SSW	0.4	97.0	E	0.3	13.0	NNE	0.4	243.0	WSW	0.0	-	-	0.0	-	-
03:00 AM - 04:00 AM	1.6	163.0	SSE	0.7	163.0	SSE	2.9	152.0	SSE	0.4	13.0	NNE	0.0	-	-	0.0	-	-	0.0	-	-
04:00 AM - 05:00 AM	0.8	198.0	SSW	0.8	178.0	S	1.2	180.0	S	0.5	113.0	ESE	0.0	-	-	0.0	-	-	1.1	332.0	NNW
05:00 AM - 06:00 AM	1.7	221.0	SW	3.0	174.0	S	1.4	177.0	S	0.0	-	-	0.1	-	-	0.7	49.0	NE	1.5	91.0	E
06:00 AM - 07:00 AM	1.5	173.0	S	2.3	170.0	S	0.3	161.0	SSE	0.9	151.0	SSE	0.0	-	-	0.0	-	-	1.0	143.0	SE
07:00 AM - 08:00 AM	2.4	188.0	S	2.7	160.0	SSE	0.8	101.0	E	0.0	-	-	0.3	179.0	S	0.0	-	-	0.0	-	-
08:00 AM - 09:00 AM	2.3	169.0	S	1.4	153.0	SSE	0.0	-	-	0.4	241.0	WSW	0.0	-	-	0.0	-	-	1.0	184.0	S
09:00 AM - 10:00 AM	1.9	204.0	SSW	0.7	98.0	E	1.3	2.0	N	0.0	-	-	0.2	-	-	0.0	-	-	0.3	188.0	S
10:00 AM - 11:00 AM	1.7	209.0	SSW	0.0	-	-	0.5	25.0	NNE	2.9	132.0	SE	0.1	-	-	0.5	138.0	SE	0.0	-	-
11:00 AM - 12:00 PM	2.3	210.0	SSW	0.0	-	-	0.0	-	-	1.2	170.0	S	0.2	-	-	0.4	83.0	E	0.3	188.0	S
12:00 PM - 01:00 PM	1.6	233.0	SW	0.5	102.0	ESE	0.0	-	-	0.0	-	-	0.3	144.0	SE	0.2	-	-	0.3	330.0	NNW

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

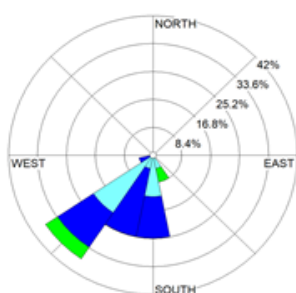
Date Received : May 19, 2022

Date Reported : May 27, 2022

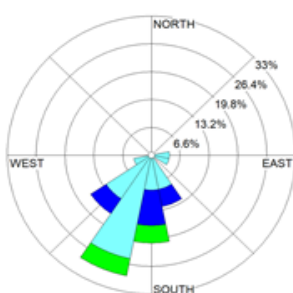
Report Number : 2295572-1

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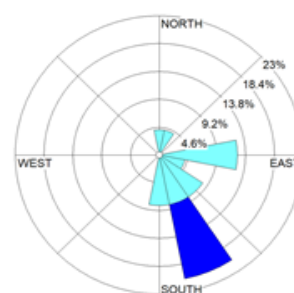
### Wind Rose



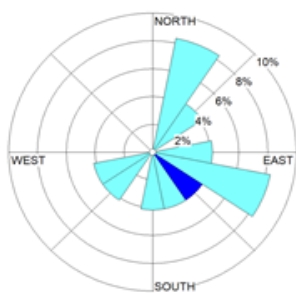
Date : May 06-07, 2022



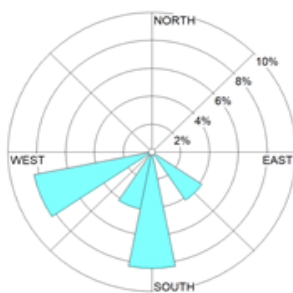
Date : May 07-08, 2022



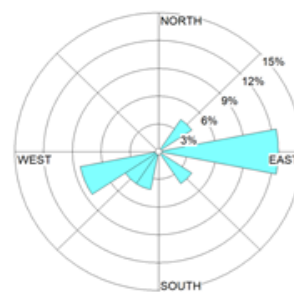
Date : May 08-09, 2022



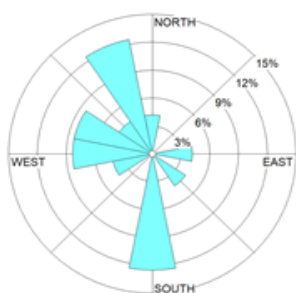
Date : May 09-10, 2022



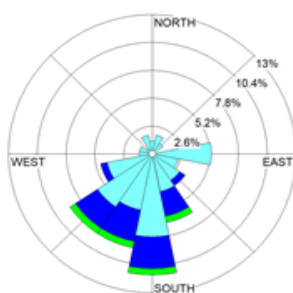
Date : May 10-11, 2022



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	2.37
1.7-3.3	11.91
0.3-1.7	46.43
Calms	39.29

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Approved by

Sarayuth Jitranont  
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

**Lot ID** : 2250392

Date Received : May 19, 2022

Date Reported : May 27, 2022

Report Number : 2295964-1

**P/O** :

**Project Name** : Environmental Monitoring

**Project Location** : TPE Site 1

Page 1 of 2

**Sample Number** : 2250392-1 to 7  
**Parameter** : Wind Speed / Wind Direction  
**Location** : บ้านมาบขุด ทิศทางลมเหนือ-ใต้  
**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)	
10:00 AM - 11:00 AM	1.8	69.0	ENE	2.8	39.0	NE	1.5	188.0	S	1.0	269.0	W	2.8	256.0	WSW	3.1	266.0	W	1.3	110.0	ESE
11:00 AM - 12:00 PM	0.4	153.0	SSE	3.0	234.0	SW	3.2	114.0	ESE	1.4	77.0	ENE	1.3	265.0	W	2.1	134.0	SE	1.7	322.0	NW
12:00 PM - 01:00 PM	2.0	139.0	SE	0.5	306.0	NW	2.6	265.0	W	5.5	166.0	SSE	0.9	295.0	WNW	4.1	245.0	WSW	2.1	310.0	NW
01:00 PM - 02:00 PM	1.1	98.0	E	1.5	322.0	NW	2.5	262.0	W	1.4	24.0	NNE	1.5	278.0	W	2.7	272.0	W	2.3	274.0	W
02:00 PM - 03:00 PM	0.5	106.0	ESE	1.2	0.0	N	0.8	65.0	ENE	0.7	264.0	W	1.0	249.0	WSW	4.0	237.0	WSW	2.6	233.0	SW
03:00 PM - 04:00 PM	0.3	198.0	SSW	1.5	329.0	NNW	1.8	154.0	SSE	1.5	262.0	W	0.3	277.0	W	3.2	279.0	W	1.5	281.0	W
04:00 PM - 05:00 PM	0.9	172.0	S	0.3	259.0	W	0.3	99.0	E	0.5	258.0	WSW	0.3	280.0	W	3.7	262.0	W	1.4	310.0	NW
05:00 PM - 06:00 PM	0.3	232.0	SW	0.3	334.0	NNW	0.9	103.0	ESE	0.8	299.0	WNW	1.2	50.0	NE	2.1	269.0	W	1.7	232.0	SW
06:00 PM - 07:00 PM	0.3	254.0	WSW	0.3	334.0	NNW	0.6	58.0	ENE	0.3	297.0	WNW	0.3	310.0	NW	2.0	103.0	ESE	1.1	94.0	E
07:00 PM - 08:00 PM	1.8	108.0	ESE	0.3	294.0	WNW	0.3	161.0	SSE	0.5	346.0	NNW	0.8	90.0	E	3.7	158.0	SSE	0.4	24.0	NNE
08:00 PM - 09:00 PM	0.8	190.0	S	0.3	287.0	WNW	0.3	173.0	S	0.3	75.0	ENE	1.5	291.0	WNW	1.9	20.0	NNE	1.9	276.0	W
09:00 PM - 10:00 PM	1.0	8.0	N	0.8	135.0	SE	0.7	151.0	SSE	0.5	21.0	NNE	1.6	264.0	W	2.2	33.0	NNE	1.5	272.0	W
10:00 PM - 11:00 PM	2.0	278.0	W	1.7	123.0	ESE	0.3	290.0	WNW	1.0	326.0	NW	1.1	272.0	W	2.9	266.0	W	1.9	241.0	WSW
11:00 PM - 12:00 AM	2.6	336.0	NNW	2.5	123.0	ESE	2.2	337.0	NNW	2.0	250.0	WSW	0.7	217.0	SW	1.8	273.0	W	0.8	238.0	WSW
12:00 AM - 01:00 AM	3.2	43.0	NE	1.6	98.0	E	1.6	335.0	NNW	0.6	327.0	NNW	1.9	170.0	S	0.3	48.0	NE	0.5	63.0	ENE
01:00 AM - 02:00 AM	2.5	175.0	S	1.5	140.0	SE	0.3	75.0	ENE	0.6	157.0	SSE	1.2	124.0	SE	1.4	126.0	SE	1.4	251.0	WSW
02:00 AM - 03:00 AM	0.9	63.0	ENE	1.4	178.0	S	1.9	107.0	ESE	1.8	356.0	N	2.2	149.0	SSE	1.5	126.0	SE	0.3	359.0	N
03:00 AM - 04:00 AM	5.6	192.0	SSW	2.5	153.0	SSE	2.2	85.0	E	2.4	148.0	SSE	3.5	102.0	ESE	2.2	118.0	ESE	0.3	79.0	E
04:00 AM - 05:00 AM	3.0	322.0	NW	3.0	275.0	W	1.5	130.0	SE	0.7	132.0	SE	1.7	137.0	SE	3.2	133.0	SE	0.3	307.0	NW
05:00 AM - 06:00 AM	2.0	316.0	NW	4.0	28.0	NNE	3.5	147.0	SSE	1.1	144.0	SE	0.6	131.0	SE	2.9	124.0	SE	0.9	140.0	SE
06:00 AM - 07:00 AM	4.7	328.0	NNW	5.4	3.0	N	1.4	230.0	SW	2.0	105.0	ESE	2.9	145.0	SE	3.3	136.0	SE	2.3	138.0	SE
07:00 AM - 08:00 AM	1.8	19.0	NNE	4.2	169.0	S	2.0	128.0	SE	1.5	138.0	SE	3.0	120.0	ESE	1.0	135.0	SE	2.0	128.0	SE
08:00 AM - 09:00 AM	2.5	257.0	WSW	2.4	158.0	SSE	1.5	42.0	NE	2.0	74.0	ENE	1.2	135.0	SE	0.6	93.0	E	0.4	39.0	NE
09:00 AM - 10:00 AM	5.6	0.0	N	2.0	174.0	S	3.5	343.0	NNW	2.0	131.0	SE	2.0	277.0	W	2.0	265.0	W	1.2	346.0	NNW

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** : 2250392

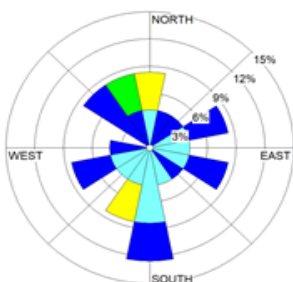
Date Received : May 19, 2022

Date Reported : May 27, 2022

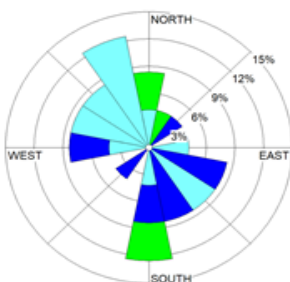
Report Number : 2295964-1

Page 2 of 2

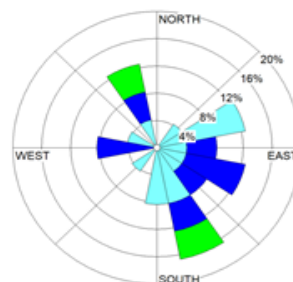
### Wind Rose



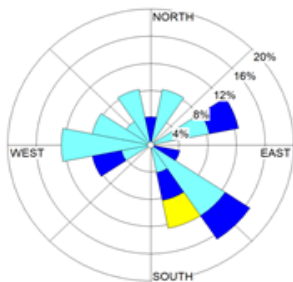
Date : May 06-07, 2022



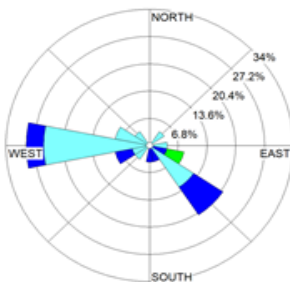
Date : May 07-08, 2022



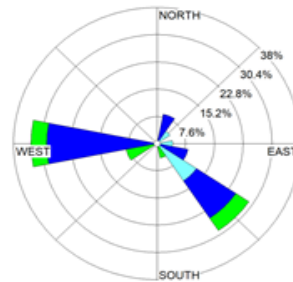
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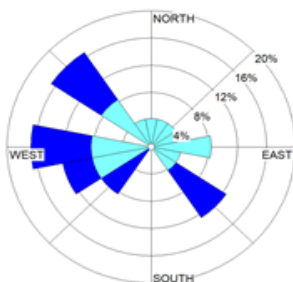
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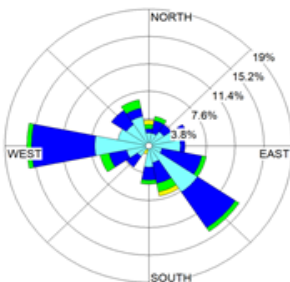
Date : May 10-11, 2022



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	1.79
3.3-5.5	7.14
1.7-3.3	37.50
0.3-1.7	53.57
Calms	0.00

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Approved by

Sarayuth Jitranont  
Assistant General Manager

# ภาคผนวก ค-3

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คุณภาพน้ำ





## 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** : LDPE\_S1

**Lot ID: 21136129**  
Date Received : Jan 14, 2022  
Date Reported : Jan 21, 2022  
Report Number : 2152520-1 C1

Page 1 of 1

<b>Sample Number</b>	21136129-1						
<b>Sampling Date</b>	Jan 14, 2022 10:24 AM						
<b>Sample Description</b>	Wastewater						
<b>Location</b>	โรงงานน้ำรวม						
<b>Date Analysis Commenced</b>	Jan 14, 2022						
<b>Condition of Sample</b>	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
<b>Water Testing</b>							
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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- "<" : 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:** LDPE\_S1

**Lot ID: 21136129**

Date Received : Jan 14, 2022  
Date Reported : Jan 21, 2022  
Report Number : 2152520-2 C1

Page 1 of 1

<b>Sample Number</b>	21136129-1						
<b>Sampling Date</b>	Jan 14, 2022 10:24 AM						
<b>Sample Description</b>	Wastewater						
<b>Location</b>	โรงงานน้ำจืด						
<b>Date Analysis Commenced</b>	Jan 14, 2022						
<b>Condition of Sample</b>	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
<b>Water Testing</b>							
Chloride as Cl	mg/L	0.5	1	263	No Standard	Based on APHA (2017), 4500-Cl (D)	Rayong
n-Hexane	mg/L	-	0.001	0.23	No Standard	Based on US EPA, Method 5030B and 8260D	Bangkok
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 :

- 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:** LDPE\_S1

**Lot ID: 21148860**

Date Received : Feb 04, 2022  
Date Reported : Feb 18, 2022  
Report Number : 2183323-1 C1

Page 1 of 1

<b>Sample Number</b>	21148860-1						
<b>Sampling Date</b>	Feb 04, 2022 10:30 AM						
<b>Sample Description</b>	Wastewater						
<b>Location</b>	บ่อดตรวจสอบคุณภาพน้ำ (Check Pond)						
<b>Date Analysis Commenced</b>	Feb 04, 2022						
<b>Condition of Sample</b>	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
<b>Water Testing</b>							
BOD (5 days at 20 Degree C)	mg/L	-	2	<2	≤20	APHA (2017), 5210 B	Rayong
COD	mg/L	1.5	5	38	≤120	APHA (2017), 5220 D	Rayong
Color (at Original pH)	ADMI	-	5	6	≤300	APHA (2017), 2120 F	Rayong
Color (at pH 7.0)	ADMI	-	5	5	≤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	-	-	32.4	≤40	Based on APHA (2017), 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	388	≤3000	APHA (2017), 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	26	≤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  
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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**: LDPE\_S1

**Lot ID: 21148860**

Date Received : Feb 04, 2022  
Date Reported : Feb 18, 2022  
Report Number : 2183323-2 C1

Page 1 of 1

<b>Sample Number</b>	21148860-1						
<b>Sampling Date</b>	Feb 04, 2022 10:30 AM						
<b>Sample Description</b>	Wastewater						
<b>Location</b>	บ่อดูตรวจสอบคุณภาพน้ำ (Check Pond)						
<b>Date Analysis Commenced</b>	Feb 04, 2022						
<b>Condition of Sample</b>	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
<b>Water Testing</b>							
Chloride as Cl	mg/L	0.5	1	142	No Standard	Based on APHA (2017), 4500-Cl (D)	Rayong
Total Organic Carbon	mg/L	0.01	0.1	9.40	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

Siriluk P.

Siriluk Puengpang  
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## Analysis / Test Report

TESTING

No.0042

**Lot ID: 2221274**

Date Received : Mar 04, 2022

Date Reported : Mar 11, 2022

Report Number : 2234958-1

**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:** TPE Site 1

Page 1 of 1

<b>Sample Number</b>	2221274-1
<b>Sampled Date</b>	Mar 04, 2022 11:25 AM
<b>Sample Description</b>	Wastewater
<b>Location</b>	Final Check Pond ของโรงงาน LDPE
<b>Date Analysis Commenced</b>	Mar 04, 2022
<b>Condition of Sample</b>	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
<b>Water Testing</b>							
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	9	≤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		-	-	8.0	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	404	≤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).

**Sampled By :** Paramet Sattayakun , 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 จ-323-จ-9445

**Approved by**

*D. Changchon*

Dej Changchon

Senior 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:** TPE Site 1

**Lot ID: 2221274**

Date Received : Mar 04, 2022

Date Reported : Mar 11, 2022

Report Number : 2234958-2

Page 1 of 1

<b>Sample Number</b>	2221274-1
<b>Sampled Date</b>	Mar 04, 2022 11:25 AM
<b>Sample Description</b>	Wastewater
<b>Location</b>	Final Check Pond ของโรงงาน LDPE
<b>Date Analysis Commenced</b>	Mar 04, 2022
<b>Condition of Sample</b>	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
<b>Water Testing</b>							
Chloride as Cl	mg/L	0.5	1	110	No Standard	Based on APHA (2017), 4500-Cl (D)	Rayong
Total Organic Carbon	mg/L	0.01	0.1	6.53	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 Mani

Remark :

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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** : LDPE\_S1

**Lot ID: 2230682**  
Date Received : Apr 01, 2022  
Date Reported : May 03, 2022  
Report Number : 2253755-1 C1

Page 1 of 1

<b>Sample Number</b>	2230682-1						
<b>Sampling Date</b>	Apr 01, 2022 10:55 AM						
<b>Sample Description</b>	Wastewater						
<b>Location</b>	บ่อดตรวจสอบคุณภาพน้ำ (Check Pond)						
<b>Date Analysis Commenced</b>	Apr 01, 2022						
<b>Condition of Sample</b>	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
<b>Water Testing</b>							
BOD (5 days at 20 Degree C)	mg/L	-	2	8	≤20	APHA (2017), 5210 B	Rayong
COD	mg/L	1.5	5	42	≤120	APHA (2017), 5220 D	Rayong
Color (at Original pH)	ADMI	-	5	13	≤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		-	-	7.2	5.5-9.0	Based on APHA (2017), 4500-H (B)	Rayong
Temperature *	Degree C	-	-	31.5	≤40	Based on APHA (2017), 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	260	≤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).

**Sampling By** : Paramet Sattayakun , Panupong Manit

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Technical Management

*N. Banchongkit*

Narumon Banchongkit  
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ทะเบียนเลขที่ ว-323-จ-9445

Approved by

*D. Changchon*

Dej Changchon  
Manager  
ทะเบียนเลขที่ ว-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** : LDPE\_S1

**Lot ID: 2250007**

Date Received : May 06, 2022  
Date Reported : May 19, 2022  
Report Number : 2294645-1 C1

Page 1 of 1

<b>Sample Number</b>	2250007-1						
<b>Sampling Date</b>	May 06, 2022 10:16 AM						
<b>Sample Description</b>	Wastewater						
<b>Location</b>	บ่อดูตรวจสอบคุณภาพน้ำ (Check Pond)						
<b>Date Analysis Commenced</b>	May 06, 2022						
<b>Condition of Sample</b>	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
<b>Water Testing</b>							
BOD (5 days at 20 Degree C)	mg/L	-	2	<2	≤20	APHA (2017), 5210 B	Rayong
COD	mg/L	1.5	5	18	≤120	APHA (2017), 5220 D	Rayong
Color (at Original pH)	ADMI	-	5	6	≤300	APHA (2017), 2120 F	Rayong
Color (at pH 7.0)	ADMI	-	5	6	≤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	-	-	31.8	≤40	Based on APHA (2017), 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	294	≤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

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*D. Changchon*

Dej Changchon  
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** : PMM-SCGCH-2019-343  
**Project Name** : Environmental Monitoring  
**Project Location** : LDPE\_S1

**Lot ID: 2250007**

Date Received : May 06, 2022  
Date Reported : May 19, 2022  
Report Number : 2294645-2 C1

Page 1 of 1

**Sample Number** : 2250007-1  
**Sampling Date** : May 06, 2022 10:16 AM  
**Sample Description** : Wastewater  
**Location** : บ่อตรวจสอบคุณภาพน้ำ (Check Pond)  
**Date Analysis Commenced** : May 06, 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
<b>Water Testing</b>							
Chloride as Cl	mg/L	0.5	1	35.4	No Standard	Based on APHA (2017), 4500-Cl (D)	Rayong
Total Organic Carbon	mg/L	0.01	0.1	6.34	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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## 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 :** LDPE\_S1

**Lot ID: 2253592**

Date Received : Jun 10, 2022

Date Reported : Jun 18, 2022

Report Number : 2303140-1 C1

Page 1 of 1

<b>Sample Number</b>	2253592-1						
<b>Sampling Date</b>	Jun 10, 2022 11:20 AM						
<b>Sample Description</b>	Wastewater						
<b>Location</b>	บ่อตรวจสอบคุณภาพน้ำ (Check Pond)						
<b>Date Analysis Commenced</b>	Jun 10, 2022						
<b>Condition of Sample</b>	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
<b>Water Testing</b>							
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	<5	≤300	APHA (2017), 2120 F	Rayong
Color (at pH 7.0)	ADMI	-	5	<5	≤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	-	-	34.7	≤40	Based on APHA (2017), 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	328	≤3000	APHA (2017), 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	18	≤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 :

- 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

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.

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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** : LDPE\_S1

**Lot ID: 2253592**

Date Received : Jun 10, 2022  
Date Reported : Jun 18, 2022  
Report Number : 2303140-2 C1

Page 1 of 1

<b>Sample Number</b>	2253592-1						
<b>Sampling Date</b>	Jun 10, 2022 11:20 AM						
<b>Sample Description</b>	Wastewater						
<b>Location</b>	บ่อดูตรวจสอบคุณภาพน้ำ (Check Pond)						
<b>Date Analysis Commenced</b>	Jun 10, 2022						
<b>Condition of Sample</b>	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
<b>Water Testing</b>							
Chloride as Cl	mg/L	0.5	1	95.0	No Standard	Based on APHA (2017), 4500-Cl (D)	Rayong
Total Organic Carbon	mg/L	0.01	0.1	5.02	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

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Approved by

Nanthawadee Somboon  
Specialist 1