

ภาคผนวก ค

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ใบรับรองผลการวิเคราะห์



## Analysis / Test Report

**Client** : Thai Polyethylene Co., Ltd.  
271, Sukhumvit Road, Tambol Map Ta Phut, Amphur Muang, Rayong Thailand 21150

**P/O** :

**Project Name** : Environmental Monitoring

**Project Location** : TPE Site 3

**Lot ID: 2273662**

Date Received : Jul 05, 2022

Date Reported : Jul 18, 2022

Report Number : 2344877-1

Page 1 of 3

**Sample Number** 2273662-1  
**Sampled Date** Jul 04, 2022  
**Sample Description** Air Quality  
**Location** พื้นที่โรงงาน  
**Date Analysis Commenced** Jul 06, 2022  
**Condition of Sample** Drawn into one 10-L air sampling bag and two sorbent tubes, refrigerated  
**Barometric Pressure** 756 mmHg  
**Atmospheric Temperature** 32.0 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Method	Testing Location
<b>Air Testing</b>							
1-Butene	04/07/22 - 05/07/22	ppm	-	1.0	<1.0	Based on ASTM, D2712-18	Bangkok
1-Hexene	04/07/22 - 05/07/22	ppm	-	1.0	<1.0	Based on ASTM, D2712-18	Bangkok
Ethylene	04/07/22 - 05/07/22	ppm	-	1.0	<1.0	Based on ASTM, D 2712	Bangkok
n-Hexane	04/07/22 - 05/07/22	ppm	-	0.10	<0.10	Based on NIOSH, 1500	Bangkok

**Sampled By** : Satcha Phetsawaeng

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

**P/O** :

**Project Name** : Environmental Monitoring

**Project Location** : TPE Site 3

**Lot ID: 2273662**

Date Received : Jul 05, 2022

Date Reported : Jul 18, 2022

Report Number : 2344877-1

Page 2 of 3

**Sample Number** 2273662-2  
**Sampled Date** Jul 04, 2022  
**Sample Description** Air Quality  
**Location** รั้วหนองแฟบหลักยึดโรงงาน  
**Date Analysis Commenced** Jul 06, 2022  
**Condition of Sample** Drawn into one 10-L air sampling bag and two sorbent tubes, refrigerated  
**Barometric Pressure** 756 mmHg  
**Atmospheric Temperature** 32.0 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Method	Testing Location
<b>Air Testing</b>							
1-Butene	04/07/22 - 05/07/22	ppm	-	1.0	<1.0	Based on ASTM, D2712-18	Bangkok
1-Hexene	04/07/22 - 05/07/22	ppm	-	1.0	<1.0	Based on ASTM, D2712-18	Bangkok
Ethylene	04/07/22 - 05/07/22	ppm	-	1.0	<1.0	Based on ASTM, D 2712	Bangkok
n-Hexane	04/07/22 - 05/07/22	ppm	-	0.10	<0.10	Based on NIOSH, 1500	Bangkok

**Sampled By** : Satcha Phetsawaeng

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## Analysis / Test Report

**Client :** Thai Polyethylene Co., Ltd.  
271, Sukhumvit Road, Tambol Map Ta Phut, Amphur Muang, Rayong Thailand 21150

**P/O :**

**Project Name :** Environmental Monitoring

**Project Location :** TPE Site 3

**Lot ID: 2273662**

Date Received : Jul 05, 2022

Date Reported : Jul 18, 2022

Report Number : 2344877-1

Page 3 of 3

**Sample Number** 2273662-3  
**Sampled Date** Jul 04, 2022  
**Sample Description** Air Quality  
**Location** โรงเรือนฆ่าแมลงตาฟุด (โสตถิธารามทุ่งนรตะ)  
**Date Analysis Commenced** Jul 06, 2022  
**Condition of Sample** Drawn into one 10-L air sampling bag and two sorbent tubes, refrigerated  
**Barometric Pressure** 756 mmHg  
**Atmospheric Temperature** 32.0 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Method	Testing Location
<b>Air Testing</b>							
1-Butene	04/07/22 - 05/07/22	ppm	-	1.0	<1.0	Based on ASTM, D2712-18	Bangkok
1-Hexene	04/07/22 - 05/07/22	ppm	-	1.0	<1.0	Based on ASTM, D2712-18	Bangkok
Ethylene	04/07/22 - 05/07/22	ppm	-	1.0	<1.0	Based on ASTM, D 2712	Bangkok
n-Hexane	04/07/22 - 05/07/22	ppm	-	0.10	<0.10	Based on NIOSH, 1500	Bangkok

**Sampled By :** Satcha Phetsawaeng

Remark :

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## Analysis / Test Report

**Client :** Thai Polyethylene Co., Ltd.  
271, Sukhumvit Road, Tambol Map Ta Phut, Amphur Muang, Rayong Thailand 21150

**P/O :**

**Project Name :** Environmental Monitoring

**Project Location :** TPE Site 3

**Lot ID: 2274533**

Date Received : Aug 03, 2022

Date Reported : Aug 16, 2022

Report Number : 2346665-1

Page 1 of 3

**Sample Number** 2274533-1  
**Sampled Date** Aug 01, 2022  
**Sample Description** Air Quality  
**Location** พื้นที่โรงงาน  
**Date Analysis Commenced** Aug 05, 2022  
**Condition of Sample** Drawn into one 10-L air sampling bag, one sorbent tube, refrigerated  
**Barometric Pressure** 756 mmHg  
**Atmospheric Temperature** 31.0 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Method	Testing Location
<b>Air Testing</b>							
1-Butene	01/08/22 - 02/08/22	ppm	-	1.0	<1.0	Based on ASTM, D2712-18	Bangkok
1-Hexene	01/08/22 - 02/08/22	ppm	-	1.0	<1.0	Based on ASTM, D2712-18	Bangkok
Ethylene	01/08/22 - 02/08/22	ppm	-	1.0	<1.0	Based on ASTM, D 2712	Bangkok
n-Hexane	01/08/22 - 02/08/22	ppm	-	0.10	<0.10	Based on NIOSH, 1500	Bangkok

**Sampled By :** Anurak Tongkhajonsakda

Remark :

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Approved by

*Saratat*

Saratat Mongkonjirawut  
Supervisor

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## Analysis / Test Report

**Client :** Thai Polyethylene Co., Ltd.  
271, Sukhumvit Road, Tambol Map Ta Phut, Amphur Muang, Rayong Thailand 21150

**P/O :**  
**Project Name :** Environmental Monitoring  
**Project Location :** TPE Site 3

**Lot ID: 2274533**

Date Received : Aug 03, 2022  
Date Reported : Aug 16, 2022  
Report Number : 2346665-1

Page 2 of 3

**Sample Number** 2274533-2  
**Sampled Date** Aug 01, 2022  
**Sample Description** Air Quality  
**Location** รัศมีของแผนกวิชาการ  
**Date Analysis Commenced** Aug 05, 2022  
**Condition of Sample** Drawn into one 10-L air sampling bag, one sorbent tube, refrigerated  
**Barometric Pressure** 756 mmHg  
**Atmospheric Temperature** 31.0 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Method	Testing Location
<b>Air Testing</b>							
1-Butene	01/08/22 - 02/08/22	ppm	-	1.0	<1.0	Based on ASTM, D2712-18	Bangkok
1-Hexene	01/08/22 - 02/08/22	ppm	-	1.0	<1.0	Based on ASTM, D2712-18	Bangkok
Ethylene	01/08/22 - 02/08/22	ppm	-	1.0	<1.0	Based on ASTM, D 2712	Bangkok
n-Hexane	01/08/22 - 02/08/22	ppm	-	0.10	<0.10	Based on NIOSH, 1500	Bangkok

**Sampled By :** Anurak Tongkhajonsakda

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## Analysis / Test Report

**Client :** Thai Polyethylene Co., Ltd.  
271, Sukhumvit Road, Tambol Map Ta Phut, Amphur Muang, Rayong Thailand 21150

**P/O :**  
**Project Name :** Environmental Monitoring  
**Project Location :** TPE Site 3

**Lot ID: 2274533**

Date Received : Aug 03, 2022  
Date Reported : Aug 16, 2022  
Report Number : 2346665-1

Page 3 of 3

**Sample Number** 2274533-3  
**Sampled Date** Aug 01, 2022  
**Sample Description** Air Quality  
**Location** รัศมีของแผนกวิชาการ (โสตถิธรามฐรณณะ)  
**Date Analysis Commenced** Aug 05, 2022  
**Condition of Sample** Drawn into one 10-L air sampling bag, one sorbent tube, refrigerated  
**Barometric Pressure** 756 mmHg  
**Atmospheric Temperature** 31.0 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Method	Testing Location
<b>Air Testing</b>							
1-Butene	01/08/22 - 02/08/22	ppm	-	1.0	<1.0	Based on ASTM, D2712-18	Bangkok
1-Hexene	01/08/22 - 02/08/22	ppm	-	1.0	<1.0	Based on ASTM, D2712-18	Bangkok
Ethylene	01/08/22 - 02/08/22	ppm	-	1.0	<1.0	Based on ASTM, D 2712	Bangkok
n-Hexane	01/08/22 - 02/08/22	ppm	-	0.10	<0.10	Based on NIOSH, 1500	Bangkok

**Sampled By :** Anurak Tongkhajonsakda

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## Analysis / Test Report

**Client** : Thai Polyethylene Co., Ltd.  
271, Sukhumvit Road, Tambol Map Ta Phut, Amphur Muang, Rayong Thailand 21150

**P/O** :

**Project Name** : Environmental Monitoring

**Project Location** : TPE Site 3

**Lot ID: 2297029**

Date Received : Sep 09, 2022

Date Reported : Sep 21, 2022

Report Number : 2398341-1

Page 1 of 3

**Sample Number** 2297029-1  
**Sampled Date** Sep 08, 2022  
**Sample Description** Air Quality  
**Location** พื้นที่โรงงาน (GPS 47P 0733572, 1406809)  
**Date Analysis Commenced** Sep 12, 2022  
**Condition of Sample** Drawn into one 10-L air sampling bag, one sorbent tube, refrigerated  
**Barometric Pressure** 754 mmHg  
**Atmospheric Temperature** 29.0 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Method	Testing Location
<b>Air Testing</b>							
1-Butene	08/09/22 - 09/09/22	ppm	-	1.0	<1.0	Based on ASTM, D2712-18	Bangkok
1-Hexene	08/09/22 - 09/09/22	ppm	-	1.0	<1.0	Based on ASTM, D2712-18	Bangkok
Ethylene	08/09/22 - 09/09/22	ppm	-	1.0	<1.0	Based on ASTM, D 2712	Bangkok
n-Hexane	08/09/22 - 09/09/22	ppm	-	0.10	<0.10	Based on NIOSH, 1500	Bangkok

**Sampled By** : Nantawat Sarin

Remark :

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Sararat Mongkonjirawut  
Supervisor

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## Analysis / Test Report

**Client** : Thai Polyethylene Co., Ltd.  
271, Sukhumvit Road, Tambol Map Ta Phut, Amphur Muang, Rayong Thailand 21150

**P/O** :

**Project Name** : Environmental Monitoring

**Project Location** : TPE Site 3

**Lot ID: 2297029**

Date Received : Sep 09, 2022

Date Reported : Sep 21, 2022

Report Number : 2398341-1

Page 2 of 3

**Sample Number** 2297029-2  
**Sampled Date** Sep 08, 2022  
**Sample Description** Air Quality  
**Location** รัศมีของพื้นที่อุตสาหกรรม (GPS 47P 0729834, 1403306)  
**Date Analysis Commenced** Sep 12, 2022  
**Condition of Sample** Drawn into one 10-L air sampling bag, one sorbent tube, refrigerated  
**Barometric Pressure** 754 mmHg  
**Atmospheric Temperature** 29.0 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Method	Testing Location
<b>Air Testing</b>							
1-Butene	08/09/22 - 09/09/22	ppm	-	1.0	<1.0	Based on ASTM, D2712-18	Bangkok
1-Hexene	08/09/22 - 09/09/22	ppm	-	1.0	<1.0	Based on ASTM, D2712-18	Bangkok
Ethylene	08/09/22 - 09/09/22	ppm	-	1.0	<1.0	Based on ASTM, D 2712	Bangkok
n-Hexane	08/09/22 - 09/09/22	ppm	-	0.10	<0.10	Based on NIOSH, 1500	Bangkok

**Sampled By** : Nantawat Sarin

Remark :

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## Analysis / Test Report

**Client :** Thai Polyethylene Co., Ltd.  
271, Sukhumvit Road, Tambol Map Ta Phut, Amphur Muang, Rayong Thailand 21150

**P/O :**

**Project Name :** Environmental Monitoring

**Project Location :** TPE Site 3

**Lot ID: 2297029**

Date Received : Sep 09, 2022

Date Reported : Sep 21, 2022

Report Number : 2398341-1

Page 3 of 3

**Sample Number** 2297029-3  
**Sampled Date** Sep 08, 2022  
**Sample Description** Air Quality  
**Location** โรงเรือนกำจัดกากขยะ (โสตถุเกษตรกรรม) (GPS 47P 0735360, 1406711)  
**Date Analysis Commenced** Sep 12, 2022  
**Condition of Sample** Drawn into one 10-L air sampling bag, one sorbent tube, refrigerated  
**Barometric Pressure** 754 mmHg  
**Atmospheric Temperature** 29.0 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Method	Testing Location
<b>Air Testing</b>							
1-Butene	08/09/22 - 09/09/22	ppm	-	1.0	<1.0	Based on ASTM, D2712-18	Bangkok
1-Hexene	08/09/22 - 09/09/22	ppm	-	1.0	<1.0	Based on ASTM, D2712-18	Bangkok
Ethylene	08/09/22 - 09/09/22	ppm	-	1.0	<1.0	Based on ASTM, D 2712	Bangkok
n-Hexane	08/09/22 - 09/09/22	ppm	-	0.10	<0.10	Based on NIOSH, 1500	Bangkok

**Sampled By :** Nantawat Sarin

Remark :

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## Analysis / Test Report

**Client :** Thai Polyethylene Co., Ltd.  
271, Sukhumvit Road, Tambol Map Ta Phut, Amphur Muang, Rayong Thailand 21150

**P/O :**

**Project Name :** Environmental Monitoring

**Project Location :** TPE Site 3

**Lot ID: 22108164**

Date Received : Oct 06, 2022

Date Reported : Oct 19, 2022

Report Number : 2420931-1

Page 1 of 3

**Sample Number** 22108164-1  
**Sampled Date** Oct 04, 2022  
**Sample Description** Air Quality  
**Location** พื้นที่โรงงาน  
**Date Analysis Commenced** Oct 07, 2022  
**Condition of Sample** Drawn into one 10-L air sampling bag and two sorbent tubes, refrigerated  
**Barometric Pressure** 758 mmHg  
**Atmospheric Temperature** 31.0 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Method	Testing Location
<b>Air Testing</b>							
1-Butene	04/10/22 - 05/10/22	ppm	-	1.0	<1.0	Based on ASTM, D2712-18	Bangkok
1-Hexene	04/10/22 - 05/10/22	ppm	-	1.0	<1.0	Based on ASTM, D2712-18	Bangkok
Ethylene	04/10/22 - 05/10/22	ppm	-	1.0	<1.0	Based on ASTM, D 2712	Bangkok
n-Hexane	04/10/22 - 05/10/22	ppm	-	0.10	<0.10	Based on NIOSH, 1500	Bangkok

**Sampled By :** Surasak Sachin

Remark :

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Saranya Chalerthamrong  
Scientist (4)

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## Analysis / Test Report

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

**Lot ID: 22108164**  
Date Received : Oct 06, 2022  
Date Reported : Oct 19, 2022  
Report Number : 2420931-1

Page 2 of 3

**Sample Number** 22108164-2  
**Sampled Date** Oct 04, 2022  
**Sample Description** Air Quality  
**Location** รัศมีหลวงเฟนทักชิกการารู  
**Date Analysis Commenced** Oct 07, 2022  
**Condition of Sample** Drawn into one 10-L air sampling bag and two sorbent tubes, refrigerated  
**Barometric Pressure** 758 mmHg  
**Atmospheric Temperature** 31.0 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Method	Testing Location
<b>Air Testing</b>							
1-Butene	04/10/22 - 05/10/22	ppm	-	1.0	<1.0	Based on ASTM, D2712-18	Bangkok
1-Hexene	04/10/22 - 05/10/22	ppm	-	1.0	<1.0	Based on ASTM, D2712-18	Bangkok
Ethylene	04/10/22 - 05/10/22	ppm	-	1.0	<1.0	Based on ASTM, D 2712	Bangkok
n-Hexane	04/10/22 - 05/10/22	ppm	-	0.10	<0.10	Based on NIOSH, 1500	Bangkok

**Sampled By** : Surasak Sachin

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*Saranya C.*

Saranya Chalerthamrong  
Scientist (4)

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## Analysis / Test Report

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

**Lot ID: 22108164**  
Date Received : Oct 06, 2022  
Date Reported : Oct 19, 2022  
Report Number : 2420931-1

Page 3 of 3

**Sample Number** 22108164-3  
**Sampled Date** Oct 04, 2022  
**Sample Description** Air Quality  
**Location** รัศมีหลวงเฟนทักชิกการารู (โศภณธรรมานุรักษ์)  
**Date Analysis Commenced** Oct 07, 2022  
**Condition of Sample** Drawn into one 10-L air sampling bag and two sorbent tubes, refrigerated  
**Barometric Pressure** 758 mmHg  
**Atmospheric Temperature** 31.0 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Method	Testing Location
<b>Air Testing</b>							
1-Butene	04/10/22 - 05/10/22	ppm	-	1.0	<1.0	Based on ASTM, D2712-18	Bangkok
1-Hexene	04/10/22 - 05/10/22	ppm	-	1.0	<1.0	Based on ASTM, D2712-18	Bangkok
Ethylene	04/10/22 - 05/10/22	ppm	-	1.0	<1.0	Based on ASTM, D 2712	Bangkok
n-Hexane	04/10/22 - 05/10/22	ppm	-	0.10	<0.10	Based on NIOSH, 1500	Bangkok

**Sampled By** : Surasak Sachin

Remark :

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

Approved by

*Saranya C.*

Saranya Chalerthamrong  
Scientist (4)

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## Analysis / Test Report

**Client :** Thai Polyethylene Co., Ltd.  
271, Sukhumvit Road, Tambol Map Ta Phut, Amphur Muang, Rayong Thailand 21150

**P/O :**

**Project Name :** Environmental Monitoring

**Project Location :** TPE Site 3

**Lot ID: 22124991**

Date Received : Nov 02, 2022

Date Reported : Nov 14, 2022

Report Number : 2460394-1

Page 1 of 3

**Sample Number** 22124991-1  
**Sampled Date** Nov 01, 2022  
**Sample Description** Air Quality  
**Location** พื้นที่โรงงาน  
**Date Analysis Commenced** Nov 03, 2022  
**Barometric Pressure** 756 mmHg  
**Atmospheric Temperature** 32.0 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Method	Testing Location
<b>Air Testing</b>							
1-Butene	01/11/22 - 02/11/22	ppm	-	1.0	<1.0	Based on ASTM, D2712-18	Bangkok
1-Hexene	01/11/22 - 02/11/22	ppm	-	1.0	<1.0	Based on ASTM, D2712-18	Bangkok
Ethylene	01/11/22 - 02/11/22	ppm	-	1.0	<1.0	Based on ASTM, D 2712	Bangkok
n-Hexane	01/11/22 - 02/11/22	ppm	-	0.10	<0.10	Based on NIOSH, 1500	Bangkok

Remark :

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

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*Saranya C.*

Saranya Chalermtamrong  
Scientist (4)

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## Analysis / Test Report

**Client :** Thai Polyethylene Co., Ltd.  
271, Sukhumvit Road, Tambol Map Ta Phut, Amphur Muang, Rayong Thailand 21150

**P/O :**

**Project Name :** Environmental Monitoring

**Project Location :** TPE Site 3

**Lot ID: 22124991**

Date Received : Nov 02, 2022

Date Reported : Nov 14, 2022

Report Number : 2460394-1

Page 2 of 3

**Sample Number** 22124991-2  
**Sampled Date** Nov 01, 2022  
**Sample Description** Air Quality  
**Location** รัศมีของพื้นที่อุตสาหกรรม  
**Date Analysis Commenced** Nov 03, 2022  
**Barometric Pressure** 756 mmHg  
**Atmospheric Temperature** 32.0 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Method	Testing Location
<b>Air Testing</b>							
1-Butene	01/11/22 - 02/11/22	ppm	-	1.0	<1.0	Based on ASTM, D2712-18	Bangkok
1-Hexene	01/11/22 - 02/11/22	ppm	-	1.0	<1.0	Based on ASTM, D2712-18	Bangkok
Ethylene	01/11/22 - 02/11/22	ppm	-	1.0	<1.0	Based on ASTM, D 2712	Bangkok
n-Hexane	01/11/22 - 02/11/22	ppm	-	0.10	<0.10	Based on NIOSH, 1500	Bangkok

Remark :

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## Analysis / Test Report

**Client** : Thai Polyethylene Co., Ltd.  
271, Sukhumvit Road, Tambol Map Ta Phut, Amphur Muang, Rayong Thailand 21150

**P/O** :

**Project Name** : Environmental Monitoring

**Project Location** : TPE Site 3

**Lot ID: 22124991**

Date Received : Nov 02, 2022

Date Reported : Nov 14, 2022

Report Number : 2460394-1

Page 3 of 3

**Sample Number** 22124991-3  
**Sampled Date** Nov 01, 2022  
**Sample Description** Air Quality  
**Location** โรงเรือนฆ่าแมลงคาพุด (โสตถิธารามธุรกรณะ)  
**Date Analysis Commenced** Nov 03, 2022  
**Barometric Pressure** 756 mmHg  
**Atmospheric Temperature** 32.0 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Method	Testing Location
<b>Air Testing</b>							
1-Butene	01/11/22 - 02/11/22	ppm	-	1.0	<1.0	Based on ASTM, D2712-18	Bangkok
1-Hexene	01/11/22 - 02/11/22	ppm	-	1.0	<1.0	Based on ASTM, D2712-18	Bangkok
Ethylene	01/11/22 - 02/11/22	ppm	-	1.0	<1.0	Based on ASTM, D 2712	Bangkok
n-Hexane	01/11/22 - 02/11/22	ppm	-	0.10	<0.10	Based on NIOSH, 1500	Bangkok

Remark :

- LOD : Limit of Detection
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## Analysis / Test Report

**Client** : Thai Polyethylene Co., Ltd.  
271, Sukhumvit Road, Tambol Map Ta Phut, Amphur Muang, Rayong Thailand 21150

**P/O** :

**Project Name** : Environmental Monitoring

**Project Location** : TPE Site 3

**Lot ID: 22136505**

Date Received : Dec 02, 2022

Date Reported : Dec 15, 2022

Report Number : 2487045-1

Page 1 of 3

**Sample Number** 22136505-1  
**Sampled Date** Dec 01, 2022  
**Sample Description** Air Quality  
**Location** พื้นที่โรงงาน  
**Date Analysis Commenced** Dec 03, 2022  
**Condition of Sample** Drawn into one 25-L air sampling bag and one sorbent tube, refrigerated  
**Barometric Pressure** 757 mmHg  
**Atmospheric Temperature** 30.0 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Method	Testing Location
<b>Air Testing</b>							
1-Butene	01/12/22 - 02/12/22	ppm	-	1.0	<1.0	Based on ASTM, D2712-18	Bangkok
1-Hexene	01/12/22 - 02/12/22	ppm	-	1.0	<1.0	Based on ASTM, D2712-18	Bangkok
Ethylene	01/12/22 - 02/12/22	ppm	-	1.0	<1.0	Based on ASTM, D 2712	Bangkok
n-Hexane	01/12/22 - 02/12/22	ppm	-	0.10	<0.10	Based on NIOSH, 1500	Bangkok

**Sampled By** : Peerapat Kahkam

Remark :

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

Approved by

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Saranya Chalermtamrong  
Scientist (4)

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## Analysis / Test Report

**Client :** Thai Polyethylene Co., Ltd.  
271, Sukhumvit Road, Tambol Map Ta Phut, Amphur Muang, Rayong Thailand 21150

**P/O :**  
**Project Name :** Environmental Monitoring  
**Project Location :** TPE Site 3

**Lot ID: 22136505**

Date Received : Dec 02, 2022  
Date Reported : Dec 15, 2022  
Report Number : 2487045-1

Page 2 of 3

**Sample Number** 22136505-2  
**Sampled Date** Dec 01, 2022  
**Sample Description** Air Quality  
**Location** รัศมีหลวงเฟนทักชิกการารู  
**Date Analysis Commenced** Dec 03, 2022  
**Condition of Sample** Drawn into one 25-L air sampling bag and one sorbent tube, refrigerated  
**Barometric Pressure** 757 mmHg  
**Atmospheric Temperature** 30.0 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Method	Testing Location
<b>Air Testing</b>							
1-Butene	01/12/22 - 02/12/22	ppm	-	1.0	<1.0	Based on ASTM, D2712-18	Bangkok
1-Hexene	01/12/22 - 02/12/22	ppm	-	1.0	<1.0	Based on ASTM, D2712-18	Bangkok
Ethylene	01/12/22 - 02/12/22	ppm	-	1.0	<1.0	Based on ASTM, D 2712	Bangkok
n-Hexane	01/12/22 - 02/12/22	ppm	-	0.10	<0.10	Based on NIOSH, 1500	Bangkok

**Sampled By :** Peerapat Kahkam

Remark :

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## Analysis / Test Report

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

**P/O :**  
**Project Name :** Environmental Monitoring  
**Project Location :** TPE Site 3

**Lot ID: 22136505**

Date Received : Dec 02, 2022  
Date Reported : Dec 15, 2022  
Report Number : 2487045-1

Page 3 of 3

**Sample Number** 22136505-3  
**Sampled Date** Dec 01, 2022  
**Sample Description** Air Quality  
**Location** รัศมีหลวงเฟนทักชิกการารู (โศภณธรรมานุรักษ์)  
**Date Analysis Commenced** Dec 03, 2022  
**Condition of Sample** Drawn into one 25-L air sampling bag and one sorbent tube, refrigerated  
**Barometric Pressure** 757 mmHg  
**Atmospheric Temperature** 30.0 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Method	Testing Location
<b>Air Testing</b>							
1-Butene	01/12/22 - 02/12/22	ppm	-	1.0	<1.0	Based on ASTM, D2712-18	Bangkok
1-Hexene	01/12/22 - 02/12/22	ppm	-	1.0	<1.0	Based on ASTM, D2712-18	Bangkok
Ethylene	01/12/22 - 02/12/22	ppm	-	1.0	<1.0	Based on ASTM, D 2712	Bangkok
n-Hexane	01/12/22 - 02/12/22	ppm	-	0.10	<0.10	Based on NIOSH, 1500	Bangkok

**Sampled By :** Peerapat Kahkam

Remark :

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## Analysis / Test Report

**Client** : Thai Polyethylene Co., Ltd.

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

**P/O** :

**Project Name** : Environmental Monitoring

**Project Location** : TPE Site 3

**Lot ID** : 2273666

Date Received : Jul 05, 2022

Date Reported : Jul 11, 2022

Report Number : 2344881-1

Page 1 of 2

**Sample Number** : 2273666-1  
**Parameter** : Wind Speed / Wind Direction  
**Location** : พื้นที่โรงงาน  
**Sampling Date** : Jul 04 - Jul 05, 2022  
**Sampling by** : Satcha Phetsawaeng

Time	Jul 04 - Jul 05, 2022		-		-		-		-		-		-		-	
	WS (m/s)	WD (deg)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
02:00 PM - 03:00 PM	3.3	261.0	W	-	-	-	-	-	-	-	-	-	-	-	-	-
03:00 PM - 04:00 PM	2.4	210.0	SSW	-	-	-	-	-	-	-	-	-	-	-	-	-
04:00 PM - 05:00 PM	2.7	276.0	W	-	-	-	-	-	-	-	-	-	-	-	-	-
05:00 PM - 06:00 PM	2.3	214.0	SW	-	-	-	-	-	-	-	-	-	-	-	-	-
06:00 PM - 07:00 PM	2.4	284.0	WNW	-	-	-	-	-	-	-	-	-	-	-	-	-
07:00 PM - 08:00 PM	2.5	286.0	WNW	-	-	-	-	-	-	-	-	-	-	-	-	-
08:00 PM - 09:00 PM	3.0	244.0	WSW	-	-	-	-	-	-	-	-	-	-	-	-	-
09:00 PM - 10:00 PM	2.1	286.0	WNW	-	-	-	-	-	-	-	-	-	-	-	-	-
10:00 PM - 11:00 PM	1.7	252.0	WSW	-	-	-	-	-	-	-	-	-	-	-	-	-
11:00 PM - 12:00 AM	1.6	261.0	W	-	-	-	-	-	-	-	-	-	-	-	-	-
12:00 AM - 01:00 AM	1.8	209.0	SSW	-	-	-	-	-	-	-	-	-	-	-	-	-
01:00 AM - 02:00 AM	0.7	291.0	WNW	-	-	-	-	-	-	-	-	-	-	-	-	-
02:00 AM - 03:00 AM	3.7	242.0	WSW	-	-	-	-	-	-	-	-	-	-	-	-	-
03:00 AM - 04:00 AM	2.0	261.0	W	-	-	-	-	-	-	-	-	-	-	-	-	-
04:00 AM - 05:00 AM	0.5	269.0	W	-	-	-	-	-	-	-	-	-	-	-	-	-
05:00 AM - 06:00 AM	2.8	260.0	W	-	-	-	-	-	-	-	-	-	-	-	-	-
06:00 AM - 07:00 AM	1.5	195.0	SSW	-	-	-	-	-	-	-	-	-	-	-	-	-
07:00 AM - 08:00 AM	0.3	140.0	SE	-	-	-	-	-	-	-	-	-	-	-	-	-
08:00 AM - 09:00 AM	1.3	255.0	WSW	-	-	-	-	-	-	-	-	-	-	-	-	-
09:00 AM - 10:00 AM	1.6	251.0	WSW	-	-	-	-	-	-	-	-	-	-	-	-	-
10:00 AM - 11:00 AM	1.3	256.0	WSW	-	-	-	-	-	-	-	-	-	-	-	-	-
11:00 AM - 12:00 PM	1.6	260.0	W	-	-	-	-	-	-	-	-	-	-	-	-	-
12:00 PM - 01:00 PM	2.1	265.0	W	-	-	-	-	-	-	-	-	-	-	-	-	-
01:00 PM - 02:00 PM	1.4	215.0	SW	-	-	-	-	-	-	-	-	-	-	-	-	-

Reference Method : Cup Anemometer & Anodized Aluminium Vane Method

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Sarayuth Jittranont  
Assistant General Manager

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## Analysis / Test Report

**Client** : Thai Polyethylene Co., Ltd.

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

**P/O** :

**Project Name** : Environmental Monitoring

**Project Location** : TPE Site 3

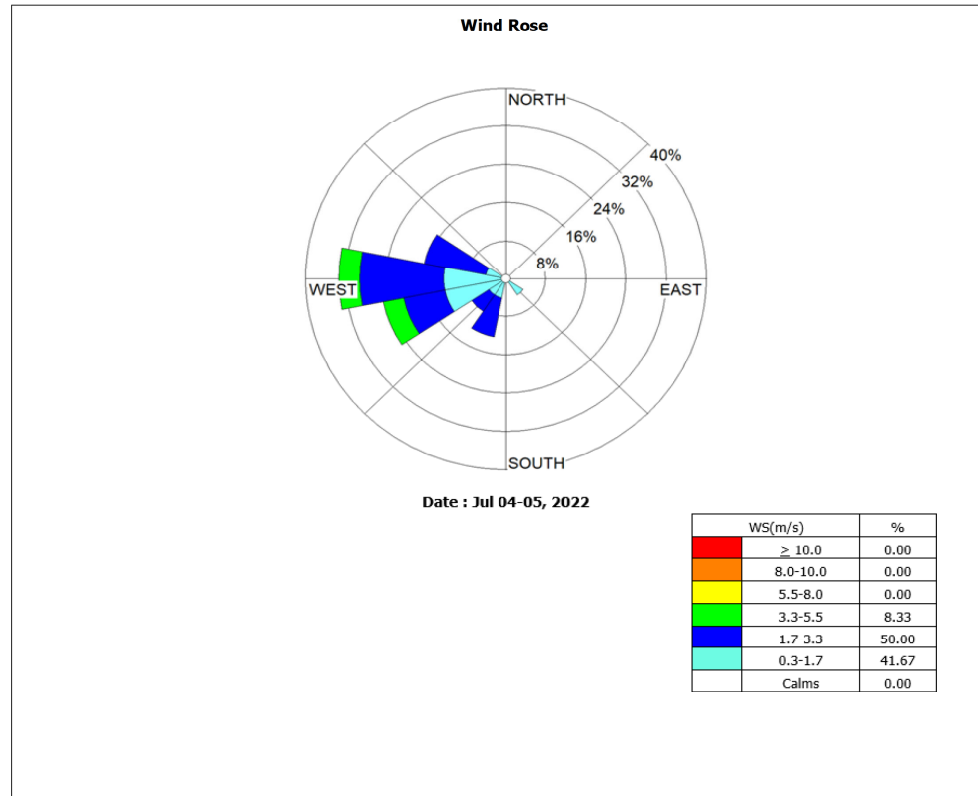
**Lot ID** : 2273666

Date Received : Jul 05, 2022

Date Reported : Jul 11, 2022

Report Number : 2344881-1

Page 2 of 2



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Assistant General Manager

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## Analysis / Test Report

**Client** : Thai Polyethylene Co., Ltd.

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

**P/O** :

**Project Name** : Environmental Monitoring

**Project Location** : TPE Site 3

**Lot ID** : 2273666

Date Received : Jul 05, 2022

Date Reported : Jul 11, 2022

Report Number : 2344881-1

Page 1 of 2

**Sample Number** : 2273666-2  
**Parameter** : Wind Speed / Wind Direction  
**Location** : รัดหนองแฟบฟาร์ม  
**Sampling Date** : Jul 04 - Jul 05, 2022  
**Sampling by** : Satcha Phetsawaeng

Time	Jul 04 - Jul 05, 2022		-		-		-		-		-		-		-	
	WS (m/s)	WD (deg)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11:00 AM - 12:00 PM	1.3	215.0	SW	-	-	-	-	-	-	-	-	-	-	-	-	-
12:00 PM - 01:00 PM	2.1	216.0	SW	-	-	-	-	-	-	-	-	-	-	-	-	-
01:00 PM - 02:00 PM	2.6	217.0	SW	-	-	-	-	-	-	-	-	-	-	-	-	-
02:00 PM - 03:00 PM	2.5	262.0	W	-	-	-	-	-	-	-	-	-	-	-	-	-
03:00 PM - 04:00 PM	1.6	261.0	W	-	-	-	-	-	-	-	-	-	-	-	-	-
04:00 PM - 05:00 PM	2.4	265.0	W	-	-	-	-	-	-	-	-	-	-	-	-	-
05:00 PM - 06:00 PM	1.2	265.0	W	-	-	-	-	-	-	-	-	-	-	-	-	-
06:00 PM - 07:00 PM	3.4	200.0	SSW	-	-	-	-	-	-	-	-	-	-	-	-	-
07:00 PM - 08:00 PM	1.6	201.0	SSW	-	-	-	-	-	-	-	-	-	-	-	-	-
08:00 PM - 09:00 PM	1.5	203.0	SSW	-	-	-	-	-	-	-	-	-	-	-	-	-
09:00 PM - 10:00 PM	1.9	209.0	SSW	-	-	-	-	-	-	-	-	-	-	-	-	-
10:00 PM - 11:00 PM	2.4	180.0	S	-	-	-	-	-	-	-	-	-	-	-	-	-
11:00 PM - 12:00 AM	1.6	186.0	S	-	-	-	-	-	-	-	-	-	-	-	-	-
12:00 AM - 01:00 AM	2.4	261.0	W	-	-	-	-	-	-	-	-	-	-	-	-	-
01:00 AM - 02:00 AM	1.5	269.0	W	-	-	-	-	-	-	-	-	-	-	-	-	-
02:00 AM - 03:00 AM	1.9	260.0	W	-	-	-	-	-	-	-	-	-	-	-	-	-
03:00 AM - 04:00 AM	1.7	195.0	SSW	-	-	-	-	-	-	-	-	-	-	-	-	-
04:00 AM - 05:00 AM	1.8	196.0	SSW	-	-	-	-	-	-	-	-	-	-	-	-	-
05:00 AM - 06:00 AM	1.9	197.0	SSW	-	-	-	-	-	-	-	-	-	-	-	-	-
06:00 AM - 07:00 AM	1.4	260.0	W	-	-	-	-	-	-	-	-	-	-	-	-	-
07:00 AM - 08:00 AM	2.5	185.0	S	-	-	-	-	-	-	-	-	-	-	-	-	-
08:00 AM - 09:00 AM	3.1	186.0	S	-	-	-	-	-	-	-	-	-	-	-	-	-
09:00 AM - 10:00 AM	2.6	184.0	S	-	-	-	-	-	-	-	-	-	-	-	-	-
10:00 AM - 11:00 AM	2.1	190.0	S	-	-	-	-	-	-	-	-	-	-	-	-	-

Reference Method : Cup Anemometer & Anodized Aluminium Vane Method

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Assistant General Manager

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## Analysis / Test Report

**Client** : Thai Polyethylene Co., Ltd.

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

**P/O** :

**Project Name** : Environmental Monitoring

**Project Location** : TPE Site 3

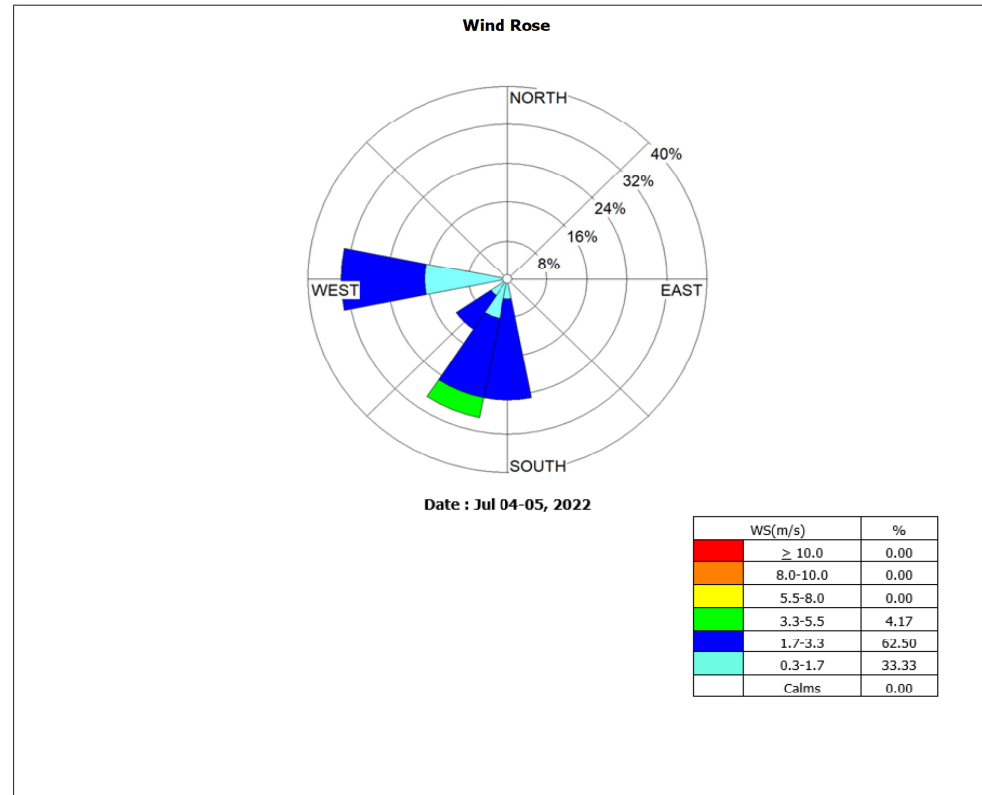
**Lot ID** : 2273666

Date Received : Jul 05, 2022

Date Reported : Jul 11, 2022

Report Number : 2344881-1

Page 2 of 2



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## Analysis / Test Report

**Client** : Thai Polyethylene Co., Ltd.

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

**P/O** :

**Project Name** : Environmental Monitoring

**Project Location** : TPE Site 3

**Lot ID** : 2273666

Date Received : Jul 05, 2022

Date Reported : Jul 11, 2022

Report Number : 2344881-1

Page 1 of 2

**Sample Number** : 2273666-3  
**Parameter** : Wind Speed / Wind Direction  
**Location** : โรงเรียนบ้านมาบตาพุด (โศภณราษฎร์นุรักษ์)  
**Sampling Date** : Jul 04 - Jul 05, 2022  
**Sampling by** : Satcha Phetsawaeng

Time	Jul 04 - Jul 05, 2022		-		-		-		-		-		-		-	
	WS (m/s)	WD (deg)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12:00 PM - 01:00 PM	1.6	220.0	SW	-	-	-	-	-	-	-	-	-	-	-	-	-
01:00 PM - 02:00 PM	1.0	225.0	SW	-	-	-	-	-	-	-	-	-	-	-	-	-
02:00 PM - 03:00 PM	1.2	224.0	SW	-	-	-	-	-	-	-	-	-	-	-	-	-
03:00 PM - 04:00 PM	1.5	180.0	S	-	-	-	-	-	-	-	-	-	-	-	-	-
04:00 PM - 05:00 PM	2.6	185.0	S	-	-	-	-	-	-	-	-	-	-	-	-	-
05:00 PM - 06:00 PM	1.9	260.0	W	-	-	-	-	-	-	-	-	-	-	-	-	-
06:00 PM - 07:00 PM	2.2	264.0	W	-	-	-	-	-	-	-	-	-	-	-	-	-
07:00 PM - 08:00 PM	1.2	265.0	W	-	-	-	-	-	-	-	-	-	-	-	-	-
08:00 PM - 09:00 PM	1.5	250.0	WSW	-	-	-	-	-	-	-	-	-	-	-	-	-
09:00 PM - 10:00 PM	1.5	300.0	WNW	-	-	-	-	-	-	-	-	-	-	-	-	-
10:00 PM - 11:00 PM	1.2	254.0	WSW	-	-	-	-	-	-	-	-	-	-	-	-	-
11:00 PM - 12:00 AM	3.3	157.0	SSE	-	-	-	-	-	-	-	-	-	-	-	-	-
12:00 AM - 01:00 AM	1.5	174.0	S	-	-	-	-	-	-	-	-	-	-	-	-	-
01:00 AM - 02:00 AM	2.3	153.0	SSE	-	-	-	-	-	-	-	-	-	-	-	-	-
02:00 AM - 03:00 AM	0.3	180.0	S	-	-	-	-	-	-	-	-	-	-	-	-	-
03:00 AM - 04:00 AM	2.1	265.0	W	-	-	-	-	-	-	-	-	-	-	-	-	-
04:00 AM - 05:00 AM	1.2	264.0	W	-	-	-	-	-	-	-	-	-	-	-	-	-
05:00 AM - 06:00 AM	1.5	110.0	ESE	-	-	-	-	-	-	-	-	-	-	-	-	-
06:00 AM - 07:00 AM	1.5	169.0	S	-	-	-	-	-	-	-	-	-	-	-	-	-
07:00 AM - 08:00 AM	1.5	154.0	SSE	-	-	-	-	-	-	-	-	-	-	-	-	-
08:00 AM - 09:00 AM	1.2	250.0	WSW	-	-	-	-	-	-	-	-	-	-	-	-	-
09:00 AM - 10:00 AM	2.6	254.0	WSW	-	-	-	-	-	-	-	-	-	-	-	-	-
10:00 AM - 11:00 AM	1.0	256.0	WSW	-	-	-	-	-	-	-	-	-	-	-	-	-
11:00 AM - 12:00 PM	1.3	185.0	S	-	-	-	-	-	-	-	-	-	-	-	-	-

Reference Method : Cup Anemometer & Anodized Aluminium Vane Method

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## Analysis / Test Report

**Client** : Thai Polyethylene Co., Ltd.

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

**P/O** :

**Project Name** : Environmental Monitoring

**Project Location** : TPE Site 3

**Lot ID** : 2273666

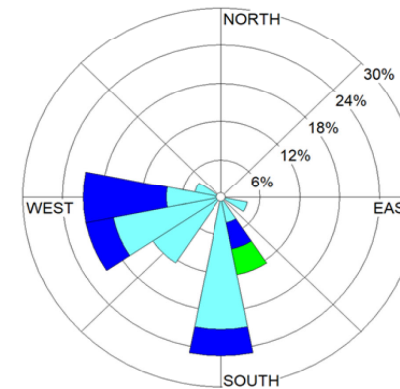
Date Received : Jul 05, 2022

Date Reported : Jul 11, 2022

Report Number : 2344881-1

Page 2 of 2

Wind Rose



Date : Jul 04-05, 2022

WS(m/s)		%
≥ 10.0	0.00	
8.0-10.0	0.00	
5.5-8.0	0.00	
3.3-5.5	4.17	
1.7-3.3	25.00	
0.3-1.7	70.83	
Calms	0.00	

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## Analysis / Test Report

**Client** : Thai Polyethylene Co., Ltd.

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

**P/O** :

**Project Name** : Environmental Monitoring

**Project Location** : TPE Site 3

**Lot ID** : 2274536

Date Received : Aug 03, 2022

Date Reported : Aug 11, 2022

Report Number : 2346669-1

Page 1 of 2

**Sample Number** : 2274536-1  
**Parameter** : Wind Speed / Wind Direction  
**Location** : พื้นที่โรงงาน  
**Sampling Date** : Aug 01 - Aug 02, 2022  
**Sampling by** : Anurak Tongkhajonsakda

Time	Aug 01 - Aug 02, 2022		-		-		-		-		-		-		-	
	WS (m/s)	WD (deg)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
02:00 PM - 03:00 PM	1.4	228.0	SW	-	-	-	-	-	-	-	-	-	-	-	-	-
03:00 PM - 04:00 PM	2.9	327.0	NNW	-	-	-	-	-	-	-	-	-	-	-	-	-
04:00 PM - 05:00 PM	2.0	177.0	S	-	-	-	-	-	-	-	-	-	-	-	-	-
05:00 PM - 06:00 PM	0.9	211.0	SSW	-	-	-	-	-	-	-	-	-	-	-	-	-
06:00 PM - 07:00 PM	2.2	194.0	SSW	-	-	-	-	-	-	-	-	-	-	-	-	-
07:00 PM - 08:00 PM	0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
08:00 PM - 09:00 PM	0.9	215.0	SW	-	-	-	-	-	-	-	-	-	-	-	-	-
09:00 PM - 10:00 PM	0.3	195.0	SSW	-	-	-	-	-	-	-	-	-	-	-	-	-
10:00 PM - 11:00 PM	0.6	180.0	S	-	-	-	-	-	-	-	-	-	-	-	-	-
11:00 PM - 12:00 AM	1.6	216.0	SW	-	-	-	-	-	-	-	-	-	-	-	-	-
12:00 AM - 01:00 AM	3.8	225.0	SW	-	-	-	-	-	-	-	-	-	-	-	-	-
01:00 AM - 02:00 AM	0.3	295.0	WNW	-	-	-	-	-	-	-	-	-	-	-	-	-
02:00 AM - 03:00 AM	0.9	276.0	W	-	-	-	-	-	-	-	-	-	-	-	-	-
03:00 AM - 04:00 AM	0.7	286.0	WNW	-	-	-	-	-	-	-	-	-	-	-	-	-
04:00 AM - 05:00 AM	0.3	229.0	SW	-	-	-	-	-	-	-	-	-	-	-	-	-
05:00 AM - 06:00 AM	0.6	227.0	SW	-	-	-	-	-	-	-	-	-	-	-	-	-
06:00 AM - 07:00 AM	1.4	339.0	NNW	-	-	-	-	-	-	-	-	-	-	-	-	-
07:00 AM - 08:00 AM	1.2	316.0	NW	-	-	-	-	-	-	-	-	-	-	-	-	-
08:00 AM - 09:00 AM	1.0	333.0	NNW	-	-	-	-	-	-	-	-	-	-	-	-	-
09:00 AM - 10:00 AM	0.5	320.0	NW	-	-	-	-	-	-	-	-	-	-	-	-	-
10:00 AM - 11:00 AM	0.3	292.0	WNW	-	-	-	-	-	-	-	-	-	-	-	-	-
11:00 AM - 12:00 PM	0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12:00 PM - 01:00 PM	0.4	217.0	SW	-	-	-	-	-	-	-	-	-	-	-	-	-
01:00 PM - 02:00 PM	1.2	0.0	N	-	-	-	-	-	-	-	-	-	-	-	-	-

Reference Method : Cup Anemometer & Anodized Aluminium Vane Method

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Assistant General Manager

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## Analysis / Test Report

**Client** : Thai Polyethylene Co., Ltd.

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

**P/O** :

**Project Name** : Environmental Monitoring

**Project Location** : TPE Site 3

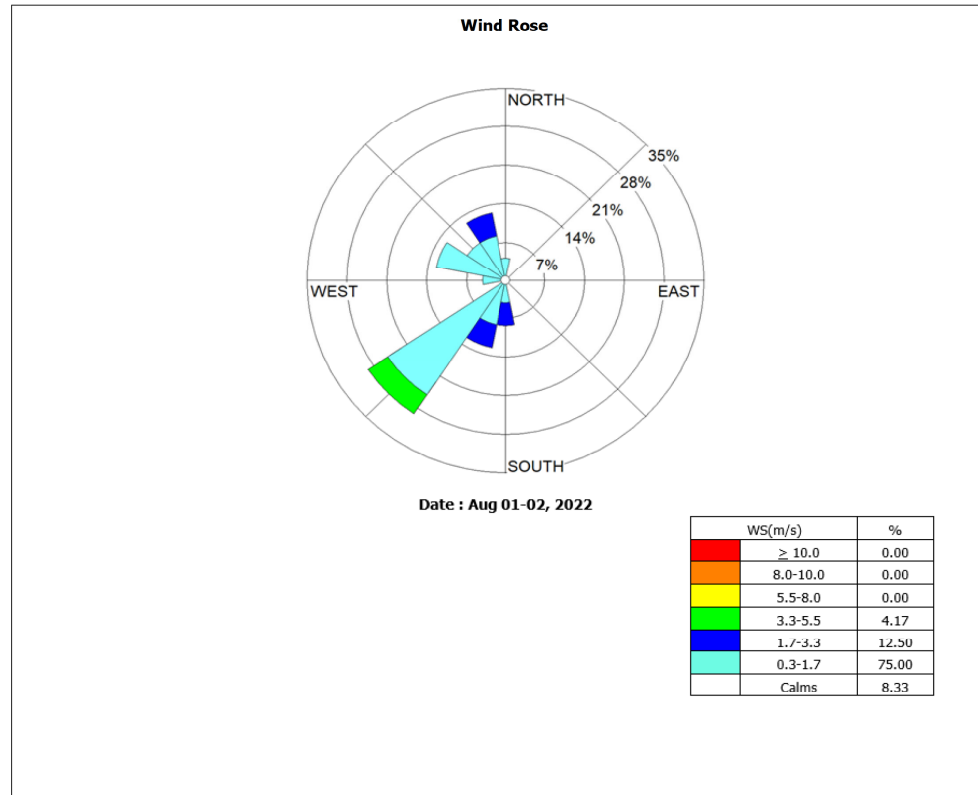
**Lot ID** : 2274536

Date Received : Aug 03, 2022

Date Reported : Aug 11, 2022

Report Number : 2346669-1

Page 2 of 2



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## Analysis / Test Report

**Client** : Thai Polyethylene Co., Ltd.

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

**P/O** :

**Project Name** : Environmental Monitoring

**Project Location** : TPE Site 3

**Lot ID** : 2274536

Date Received : Aug 03, 2022

Date Reported : Aug 11, 2022

Report Number : 2346669-1

Page 1 of 2

**Sample Number** : 2274536-2  
**Parameter** : Wind Speed / Wind Direction  
**Location** : รัดหนองแฟบฟาร์ม  
**Sampling Date** : Aug 01 - Aug 02, 2022  
**Sampling by** : Anurak Tongkhajonsakda

Time	Aug 01 - Aug 02, 2022		-		-		-		-		-		-		-	
	WS (m/s)	WD (deg)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11:00 AM - 12:00 PM	0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12:00 PM - 01:00 PM	0.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
01:00 PM - 02:00 PM	0.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
02:00 PM - 03:00 PM	0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
03:00 PM - 04:00 PM	2.6	145.0	SE	-	-	-	-	-	-	-	-	-	-	-	-	-
04:00 PM - 05:00 PM	0.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
05:00 PM - 06:00 PM	4.5	198.0	SSW	-	-	-	-	-	-	-	-	-	-	-	-	-
06:00 PM - 07:00 PM	0.5	128.0	SE	-	-	-	-	-	-	-	-	-	-	-	-	-
07:00 PM - 08:00 PM	0.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
08:00 PM - 09:00 PM	0.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
09:00 PM - 10:00 PM	0.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10:00 PM - 11:00 PM	0.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11:00 PM - 12:00 AM	0.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12:00 AM - 01:00 AM	0.4	212.0	SSW	-	-	-	-	-	-	-	-	-	-	-	-	-
01:00 AM - 02:00 AM	0.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
02:00 AM - 03:00 AM	0.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
03:00 AM - 04:00 AM	0.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
04:00 AM - 05:00 AM	0.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
05:00 AM - 06:00 AM	0.4	122.0	ESE	-	-	-	-	-	-	-	-	-	-	-	-	-
06:00 AM - 07:00 AM	2.3	108.0	ESE	-	-	-	-	-	-	-	-	-	-	-	-	-
07:00 AM - 08:00 AM	3.1	137.0	SE	-	-	-	-	-	-	-	-	-	-	-	-	-
08:00 AM - 09:00 AM	1.4	130.0	SE	-	-	-	-	-	-	-	-	-	-	-	-	-
09:00 AM - 10:00 AM	1.5	216.0	SW	-	-	-	-	-	-	-	-	-	-	-	-	-
10:00 AM - 11:00 AM	0.5	15.0	NNE	-	-	-	-	-	-	-	-	-	-	-	-	-

Reference Method : Cup Anemometer & Anodized Aluminium Vane Method

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## Analysis / Test Report

**Client** : Thai Polyethylene Co., Ltd.

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

**P/O** :

**Project Name** : Environmental Monitoring

**Project Location** : TPE Site 3

**Lot ID** : 2274536

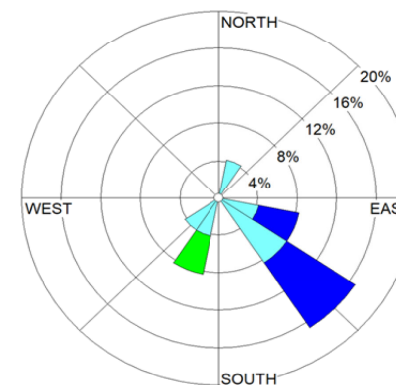
Date Received : Aug 03, 2022

Date Reported : Aug 11, 2022

Report Number : 2346669-1

Page 2 of 2

Wind Rose



Date : Aug 01-02, 2022

WS(m/s)	%
≥ 10.0	0.00
8.0-10.0	0.00
5.5-8.0	0.00
3.3-5.5	4.17
1.7-3.3	12.50
0.3-1.7	25.00
Calms	58.33

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## Analysis / Test Report

**Client** : Thai Polyethylene Co., Ltd.

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

**P/O** :

**Project Name** : Environmental Monitoring

**Project Location** : TPE Site 3

**Lot ID** : 2274536

Date Received : Aug 03, 2022

Date Reported : Aug 11, 2022

Report Number : 2346669-1

Page 1 of 2

**Sample Number** : 2274536-3  
**Parameter** : Wind Speed / Wind Direction  
**Location** : โรงเรียนบ้านมาบตาพุด (ใกล้ถนนสุขุมวิท)  
**Sampling Date** : Aug 01 - Aug 02, 2022  
**Sampling by** : Anurak Tongkhajonsakda

Time	Aug 01 - Aug 02, 2022		-		-		-		-		-		-		-	
	WS (m/s)	WD (deg)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10:00 AM - 11:00 AM	2.8	244.0	WSW	-	-	-	-	-	-	-	-	-	-	-	-	-
11:00 AM - 12:00 PM	4.5	226.0	SW	-	-	-	-	-	-	-	-	-	-	-	-	-
12:00 PM - 01:00 PM	2.2	230.0	SW	-	-	-	-	-	-	-	-	-	-	-	-	-
01:00 PM - 02:00 PM	0.8	198.0	SSW	-	-	-	-	-	-	-	-	-	-	-	-	-
02:00 PM - 03:00 PM	1.5	198.0	SSW	-	-	-	-	-	-	-	-	-	-	-	-	-
03:00 PM - 04:00 PM	0.6	232.0	SW	-	-	-	-	-	-	-	-	-	-	-	-	-
04:00 PM - 05:00 PM	0.3	187.0	S	-	-	-	-	-	-	-	-	-	-	-	-	-
05:00 PM - 06:00 PM	1.2	200.0	SSW	-	-	-	-	-	-	-	-	-	-	-	-	-
06:00 PM - 07:00 PM	2.5	227.0	SW	-	-	-	-	-	-	-	-	-	-	-	-	-
07:00 PM - 08:00 PM	0.5	233.0	SW	-	-	-	-	-	-	-	-	-	-	-	-	-
08:00 PM - 09:00 PM	0.7	139.0	SE	-	-	-	-	-	-	-	-	-	-	-	-	-
09:00 PM - 10:00 PM	2.2	181.0	S	-	-	-	-	-	-	-	-	-	-	-	-	-
10:00 PM - 11:00 PM	3.0	219.0	SW	-	-	-	-	-	-	-	-	-	-	-	-	-
11:00 PM - 12:00 AM	0.4	309.0	NW	-	-	-	-	-	-	-	-	-	-	-	-	-
12:00 AM - 01:00 AM	0.3	307.0	NW	-	-	-	-	-	-	-	-	-	-	-	-	-
01:00 AM - 02:00 AM	1.5	186.0	S	-	-	-	-	-	-	-	-	-	-	-	-	-
02:00 AM - 03:00 AM	1.4	69.0	ENE	-	-	-	-	-	-	-	-	-	-	-	-	-
03:00 AM - 04:00 AM	1.5	180.0	S	-	-	-	-	-	-	-	-	-	-	-	-	-
04:00 AM - 05:00 AM	1.5	32.0	NNE	-	-	-	-	-	-	-	-	-	-	-	-	-
05:00 AM - 06:00 AM	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
06:00 AM - 07:00 AM	0.3	149.0	SSE	-	-	-	-	-	-	-	-	-	-	-	-	-
07:00 AM - 08:00 AM	1.8	68.0	ENE	-	-	-	-	-	-	-	-	-	-	-	-	-
08:00 AM - 09:00 AM	2.3	24.0	NNE	-	-	-	-	-	-	-	-	-	-	-	-	-
09:00 AM - 10:00 AM	3.0	232.0	SW	-	-	-	-	-	-	-	-	-	-	-	-	-

Reference Method : Cup Anemometer & Anodized Aluminium Vane Method

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Sarayuth Jittrantont  
Assistant General Manager

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## Analysis / Test Report

**Client** : Thai Polyethylene Co., Ltd.

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

**P/O** :

**Project Name** : Environmental Monitoring

**Project Location** : TPE Site 3

**Lot ID** : 2274536

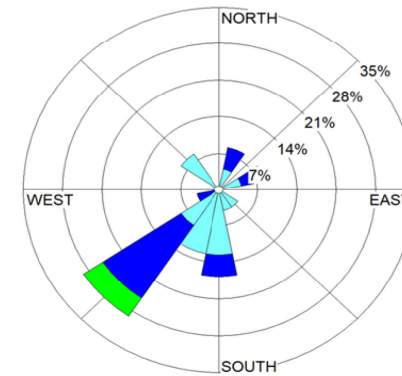
Date Received : Aug 03, 2022

Date Reported : Aug 11, 2022

Report Number : 2346669-1

Page 2 of 2

### Wind Rose



Date : Aug 01-02, 2022

WS(m/s)	%
≥ 10.0	0.00
8.0-10.0	0.00
5.5-8.0	0.00
3.3-5.5	4.17
1.7-3.3	33.33
0.3-1.7	58.33
Calms	4.17

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## Analysis / Test Report

**Client** : Thai Polyethylene Co., Ltd.

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

**P/O** :

**Project Name** : Environmental Monitoring

**Project Location** : TPE Site 3

**Lot ID** : 2297031

Date Received : Sep 09, 2022

Date Reported : Sep 16, 2022

Report Number : 2398353-1

Page 1 of 2

**Sample Number** : 2297031-1  
**Parameter** : Wind Speed / Wind Direction  
**Location** : พื้นที่โรงงาน (GPS 47P 0733572, 1406809)  
**Sampling Date** : Sep 08 - Sep 09, 2022  
**Sampling by** : Nantawat Sarin

Time	Sep 08 - Sep 09, 2022		-		-		-		-		-		-		-	
	WS (m/s)	WD (deg)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11:00 AM - 12:00 PM	1.5	213.0	SSW	-	-	-	-	-	-	-	-	-	-	-	-	-
12:00 PM - 01:00 PM	2.0	146.0	SE	-	-	-	-	-	-	-	-	-	-	-	-	-
01:00 PM - 02:00 PM	1.4	205.0	SSW	-	-	-	-	-	-	-	-	-	-	-	-	-
02:00 PM - 03:00 PM	2.1	285.0	WNW	-	-	-	-	-	-	-	-	-	-	-	-	-
03:00 PM - 04:00 PM	0.5	305.0	NW	-	-	-	-	-	-	-	-	-	-	-	-	-
04:00 PM - 05:00 PM	0.7	210.0	SSW	-	-	-	-	-	-	-	-	-	-	-	-	-
05:00 PM - 06:00 PM	0.7	182.0	S	-	-	-	-	-	-	-	-	-	-	-	-	-
06:00 PM - 07:00 PM	0.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
07:00 PM - 08:00 PM	0.3	176.0	S	-	-	-	-	-	-	-	-	-	-	-	-	-
08:00 PM - 09:00 PM	0.5	173.0	S	-	-	-	-	-	-	-	-	-	-	-	-	-
09:00 PM - 10:00 PM	3.6	324.0	NW	-	-	-	-	-	-	-	-	-	-	-	-	-
10:00 PM - 11:00 PM	0.5	11.0	N	-	-	-	-	-	-	-	-	-	-	-	-	-
11:00 PM - 12:00 AM	0.9	359.0	N	-	-	-	-	-	-	-	-	-	-	-	-	-
12:00 AM - 01:00 AM	1.1	359.0	N	-	-	-	-	-	-	-	-	-	-	-	-	-
01:00 AM - 02:00 AM	1.4	13.0	NNE	-	-	-	-	-	-	-	-	-	-	-	-	-
02:00 AM - 03:00 AM	0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
03:00 AM - 04:00 AM	0.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
04:00 AM - 05:00 AM	0.4	260.0	W	-	-	-	-	-	-	-	-	-	-	-	-	-
05:00 AM - 06:00 AM	0.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
06:00 AM - 07:00 AM	0.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
07:00 AM - 08:00 AM	0.9	187.0	S	-	-	-	-	-	-	-	-	-	-	-	-	-
08:00 AM - 09:00 AM	0.7	229.0	SW	-	-	-	-	-	-	-	-	-	-	-	-	-
09:00 AM - 10:00 AM	0.6	163.0	SSE	-	-	-	-	-	-	-	-	-	-	-	-	-
10:00 AM - 11:00 AM	0.3	190.0	S	-	-	-	-	-	-	-	-	-	-	-	-	-

Reference Method : Cup Anemometer & Anodized Aluminium Vane Method

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## Analysis / Test Report

**Client** : Thai Polyethylene Co., Ltd.

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

**P/O** :

**Project Name** : Environmental Monitoring

**Project Location** : TPE Site 3

**Lot ID** : 2297031

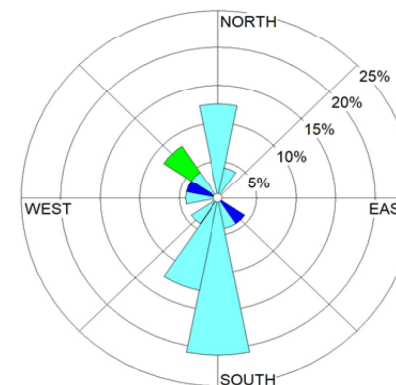
Date Received : Sep 09, 2022

Date Reported : Sep 16, 2022

Report Number : 2398353-1

Page 2 of 2

Wind Rose



Date : Sep 08-09, 2022

WS(m/s)	%
≥ 10.0	0.00
8.0-10.0	0.00
5.5-8.0	0.00
3.3-5.5	4.17
1.7-3.3	8.33
0.3-1.7	66.67
Calms	20.83

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## Analysis / Test Report

**Client** : Thai Polyethylene Co., Ltd.

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

**P/O** :

**Project Name** : Environmental Monitoring

**Project Location** : TPE Site 3

**Lot ID** : 2297031

Date Received : Sep 09, 2022

Date Reported : Sep 16, 2022

Report Number : 2398353-1

Page 1 of 2

**Sample Number** : 2297031-2

**Parameter** : Wind Speed / Wind Direction

**Location** : วัดหนองแฟบพิทักษ์นาราม (GPS 47P 0729834, 1403306)

**Sampling Date** : Sep 08 - Sep 09, 2022

**Sampling by** : Nantawat Sarin

Time	Sep 08 - Sep 09, 2022		-		-		-		-		-		-		-	
	WS (m/s)	WD (deg)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10:00 AM - 11:00 AM	0.3	266.0	W	-	-	-	-	-	-	-	-	-	-	-	-	-
11:00 AM - 12:00 PM	0.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12:00 PM - 01:00 PM	0.5	302.0	WNW	-	-	-	-	-	-	-	-	-	-	-	-	-
01:00 PM - 02:00 PM	0.3	284.0	WNW	-	-	-	-	-	-	-	-	-	-	-	-	-
02:00 PM - 03:00 PM	0.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
03:00 PM - 04:00 PM	0.5	278.0	W	-	-	-	-	-	-	-	-	-	-	-	-	-
04:00 PM - 05:00 PM	0.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
05:00 PM - 06:00 PM	0.8	322.0	NW	-	-	-	-	-	-	-	-	-	-	-	-	-
06:00 PM - 07:00 PM	0.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
07:00 PM - 08:00 PM	0.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
08:00 PM - 09:00 PM	0.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
09:00 PM - 10:00 PM	0.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10:00 PM - 11:00 PM	0.4	359.0	N	-	-	-	-	-	-	-	-	-	-	-	-	-
11:00 PM - 12:00 AM	0.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12:00 AM - 01:00 AM	0.5	16.0	NNE	-	-	-	-	-	-	-	-	-	-	-	-	-
01:00 AM - 02:00 AM	0.3	301.0	WNW	-	-	-	-	-	-	-	-	-	-	-	-	-
02:00 AM - 03:00 AM	0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
03:00 AM - 04:00 AM	0.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
04:00 AM - 05:00 AM	0.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
05:00 AM - 06:00 AM	0.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
06:00 AM - 07:00 AM	0.5	309.0	NW	-	-	-	-	-	-	-	-	-	-	-	-	-
07:00 AM - 08:00 AM	0.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
08:00 AM - 09:00 AM	0.4	240.0	WSW	-	-	-	-	-	-	-	-	-	-	-	-	-
09:00 AM - 10:00 AM	0.6	277.0	W	-	-	-	-	-	-	-	-	-	-	-	-	-

Reference Method : Cup Anemometer & Anodized Aluminium Vane Method

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Assistant General Manager

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## Analysis / Test Report

**Client** : Thai Polyethylene Co., Ltd.

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

**P/O** :

**Project Name** : Environmental Monitoring

**Project Location** : TPE Site 3

**Lot ID** : 2297031

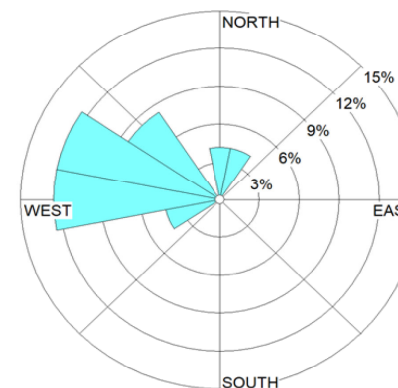
Date Received : Sep 09, 2022

Date Reported : Sep 16, 2022

Report Number : 2398353-1

Page 2 of 2

### Wind Rose



Date : Sep 08-09, 2022

WS(m/s)	%
≥ 10.0	0.00
8.0-10.0	0.00
5.5-8.0	0.00
3.3-5.5	0.00
1.7-3.3	0.00
0.3-1.7	45.83
Calms	54.17

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## Analysis / Test Report

**Client** : Thai Polyethylene Co., Ltd.

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

**P/O** :

**Project Name** : Environmental Monitoring

**Project Location** : TPE Site 3

**Lot ID** : 2297031

Date Received : Sep 09, 2022

Date Reported : Sep 16, 2022

Report Number : 2398353-1

Page 1 of 2

**Sample Number** : 2297031-3

**Parameter** : Wind Speed / Wind Direction

**Location** : โรงเรียนบ้านมาบตาพุด (โศภนราษฎร์รังสรรค์) (GPS 47P 0735360, 1406711)

**Sampling Date** : Sep 08 - Sep 09, 2022

**Sampling by** : Nantawat Sarin

Time	Sep 08 - Sep 09, 2022		-		-		-		-		-		-		-	
	WS (m/s)	WD (deg)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10:00 AM - 11:00 AM	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11:00 AM - 12:00 PM	0.5	226.0	SW	-	-	-	-	-	-	-	-	-	-	-	-	-
12:00 PM - 01:00 PM	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
01:00 PM - 02:00 PM	2.3	276.0	W	-	-	-	-	-	-	-	-	-	-	-	-	-
02:00 PM - 03:00 PM	0.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
03:00 PM - 04:00 PM	0.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
04:00 PM - 05:00 PM	1.5	287.0	WNW	-	-	-	-	-	-	-	-	-	-	-	-	-
05:00 PM - 06:00 PM	0.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
06:00 PM - 07:00 PM	0.5	320.0	NW	-	-	-	-	-	-	-	-	-	-	-	-	-
07:00 PM - 08:00 PM	0.4	336.0	NNW	-	-	-	-	-	-	-	-	-	-	-	-	-
08:00 PM - 09:00 PM	0.3	244.0	WSW	-	-	-	-	-	-	-	-	-	-	-	-	-
09:00 PM - 10:00 PM	0.6	5.0	N	-	-	-	-	-	-	-	-	-	-	-	-	-
10:00 PM - 11:00 PM	0.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11:00 PM - 12:00 AM	0.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12:00 AM - 01:00 AM	0.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
01:00 AM - 02:00 AM	0.3	41.0	NE	-	-	-	-	-	-	-	-	-	-	-	-	-
02:00 AM - 03:00 AM	0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
03:00 AM - 04:00 AM	0.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
04:00 AM - 05:00 AM	0.4	95.0	E	-	-	-	-	-	-	-	-	-	-	-	-	-
05:00 AM - 06:00 AM	0.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
06:00 AM - 07:00 AM	0.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
07:00 AM - 08:00 AM	0.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
08:00 AM - 09:00 AM	0.3	200.0	SSW	-	-	-	-	-	-	-	-	-	-	-	-	-
09:00 AM - 10:00 AM	0.7	197.0	SSW	-	-	-	-	-	-	-	-	-	-	-	-	-

Reference Method : Cup Anemometer & Anodized Aluminium Vane Method

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## Analysis / Test Report

**Client** : Thai Polyethylene Co., Ltd.

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

**P/O** :

**Project Name** : Environmental Monitoring

**Project Location** : TPE Site 3

**Lot ID** : 2297031

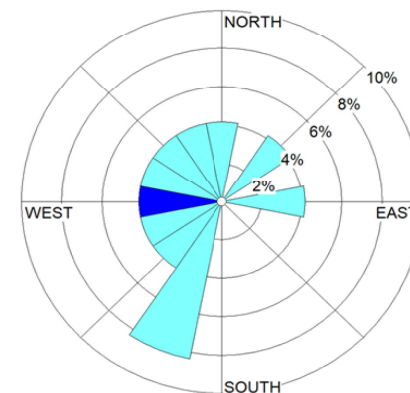
Date Received : Sep 09, 2022

Date Reported : Sep 16, 2022

Report Number : 2398353-1

Page 2 of 2

Wind Rose



Date : Sep 08-09, 2022

WS(m/s)	%
≥ 10.0	0.00
8.0-10.0	0.00
5.5-8.0	0.00
3.3-5.5	0.00
1.7-3.3	4.16
0.3-1.7	41.67
Calms	54.17

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## Analysis / Test Report

**Client** : Thai Polyethylene Co., Ltd.

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

**P/O** :

**Project Name** : Environmental Monitoring

**Project Location** : TPE Site 3

**Lot ID** : 22108166

Date Received : Oct 06, 2022

Date Reported : Oct 11, 2022

Report Number : 2420934-1

Page 1 of 2

**Sample Number** : 22108166-1  
**Parameter** : Wind Speed / Wind Direction  
**Location** : พื้นที่โรงงาน  
**Sampling Date** : Oct 04 - Oct 05, 2022  
**Sampling by** : Surasak Sachin

Time	Oct 04 - Oct 05, 2022		-		-		-		-		-		-		-	
	WS (m/s)	WD (deg)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
01:00 PM - 02:00 PM	0.7	47.0	NE	-	-	-	-	-	-	-	-	-	-	-	-	-
02:00 PM - 03:00 PM	0.8	34.0	NE	-	-	-	-	-	-	-	-	-	-	-	-	-
03:00 PM - 04:00 PM	1.4	60.0	ENE	-	-	-	-	-	-	-	-	-	-	-	-	-
04:00 PM - 05:00 PM	2.1	15.0	NNE	-	-	-	-	-	-	-	-	-	-	-	-	-
05:00 PM - 06:00 PM	1.0	16.0	NNE	-	-	-	-	-	-	-	-	-	-	-	-	-
06:00 PM - 07:00 PM	0.3	46.0	NE	-	-	-	-	-	-	-	-	-	-	-	-	-
07:00 PM - 08:00 PM	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
08:00 PM - 09:00 PM	0.3	12.0	NNE	-	-	-	-	-	-	-	-	-	-	-	-	-
09:00 PM - 10:00 PM	0.6	10.0	N	-	-	-	-	-	-	-	-	-	-	-	-	-
10:00 PM - 11:00 PM	0.4	23.0	NNE	-	-	-	-	-	-	-	-	-	-	-	-	-
11:00 PM - 12:00 AM	0.8	17.0	NNE	-	-	-	-	-	-	-	-	-	-	-	-	-
12:00 AM - 01:00 AM	1.0	34.0	NE	-	-	-	-	-	-	-	-	-	-	-	-	-
01:00 AM - 02:00 AM	1.1	17.0	NNE	-	-	-	-	-	-	-	-	-	-	-	-	-
02:00 AM - 03:00 AM	0.3	19.0	NNE	-	-	-	-	-	-	-	-	-	-	-	-	-
03:00 AM - 04:00 AM	0.7	16.0	NNE	-	-	-	-	-	-	-	-	-	-	-	-	-
04:00 AM - 05:00 AM	0.5	1.0	N	-	-	-	-	-	-	-	-	-	-	-	-	-
05:00 AM - 06:00 AM	1.0	46.0	NE	-	-	-	-	-	-	-	-	-	-	-	-	-
06:00 AM - 07:00 AM	1.3	20.0	NNE	-	-	-	-	-	-	-	-	-	-	-	-	-
07:00 AM - 08:00 AM	0.4	359.0	N	-	-	-	-	-	-	-	-	-	-	-	-	-
08:00 AM - 09:00 AM	1.2	5.0	N	-	-	-	-	-	-	-	-	-	-	-	-	-
09:00 AM - 10:00 AM	1.6	347.0	NNW	-	-	-	-	-	-	-	-	-	-	-	-	-
10:00 AM - 11:00 AM	1.4	352.0	N	-	-	-	-	-	-	-	-	-	-	-	-	-
11:00 AM - 12:00 PM	0.9	30.0	NNE	-	-	-	-	-	-	-	-	-	-	-	-	-
12:00 PM - 01:00 PM	0.7	67.0	ENE	-	-	-	-	-	-	-	-	-	-	-	-	-

Reference Method : Cup Anemometer & Anodized Aluminium Vane Method

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Sarayuth Jitranont  
Assistant General Manager

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## Analysis / Test Report

**Client** : Thai Polyethylene Co., Ltd.

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

**P/O** :

**Project Name** : Environmental Monitoring

**Project Location** : TPE Site 3

**Lot ID** : 22108166

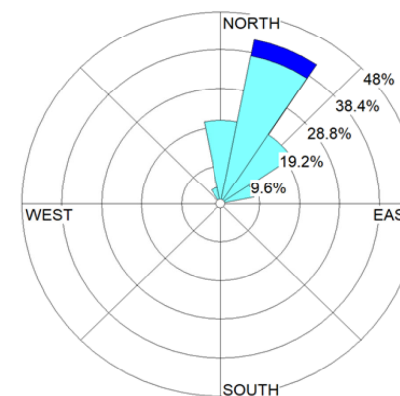
Date Received : Oct 06, 2022

Date Reported : Oct 11, 2022

Report Number : 2420934-1

Page 2 of 2

Wind Rose



Date : Oct 04-05, 2022

WS(m/s)	%
≥ 10.0	0.00
8.0-10.0	0.00
5.5-8.0	0.00
3.3-5.5	0.00
1.7-3.3	4.17
0.3-1.7	91.66
Calms	4.17

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## Analysis / Test Report

**Client** : Thai Polyethylene Co., Ltd.

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

**P/O** :

**Project Name** : Environmental Monitoring

**Project Location** : TPE Site 3

**Lot ID** : 22108166

Date Received : Oct 06, 2022

Date Reported : Oct 11, 2022

Report Number : 2420934-1

Page 1 of 2

**Sample Number** : 22108166-2  
**Parameter** : Wind Speed / Wind Direction  
**Location** : รัดหนองแฟบฟาร์มพัฒนา  
**Sampling Date** : Oct 04 - Oct 05, 2022  
**Sampling by** : Surasak Sachin

Time	Oct 04 - Oct 05, 2022		-		-		-		-		-		-		-	
	WS (m/s)	WD (deg)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12:00 PM - 01:00 PM	0.4	62.0	ENE	-	-	-	-	-	-	-	-	-	-	-	-	-
01:00 PM - 02:00 PM	2.3	63.0	ENE	-	-	-	-	-	-	-	-	-	-	-	-	-
02:00 PM - 03:00 PM	2.3	69.0	ENE	-	-	-	-	-	-	-	-	-	-	-	-	-
03:00 PM - 04:00 PM	1.6	81.0	E	-	-	-	-	-	-	-	-	-	-	-	-	-
04:00 PM - 05:00 PM	0.7	68.0	ENE	-	-	-	-	-	-	-	-	-	-	-	-	-
05:00 PM - 06:00 PM	0.6	64.0	ENE	-	-	-	-	-	-	-	-	-	-	-	-	-
06:00 PM - 07:00 PM	0.9	69.0	ENE	-	-	-	-	-	-	-	-	-	-	-	-	-
07:00 PM - 08:00 PM	1.0	61.0	ENE	-	-	-	-	-	-	-	-	-	-	-	-	-
08:00 PM - 09:00 PM	0.7	69.0	ENE	-	-	-	-	-	-	-	-	-	-	-	-	-
09:00 PM - 10:00 PM	1.3	65.0	ENE	-	-	-	-	-	-	-	-	-	-	-	-	-
10:00 PM - 11:00 PM	0.5	42.0	NE	-	-	-	-	-	-	-	-	-	-	-	-	-
11:00 PM - 12:00 AM	0.8	28.0	NNE	-	-	-	-	-	-	-	-	-	-	-	-	-
12:00 AM - 01:00 AM	0.5	75.0	ENE	-	-	-	-	-	-	-	-	-	-	-	-	-
01:00 AM - 02:00 AM	1.1	98.0	E	-	-	-	-	-	-	-	-	-	-	-	-	-
02:00 AM - 03:00 AM	0.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
03:00 AM - 04:00 AM	0.3	89.0	E	-	-	-	-	-	-	-	-	-	-	-	-	-
04:00 AM - 05:00 AM	1.3	79.0	E	-	-	-	-	-	-	-	-	-	-	-	-	-
05:00 AM - 06:00 AM	0.4	85.0	E	-	-	-	-	-	-	-	-	-	-	-	-	-
06:00 AM - 07:00 AM	1.8	92.0	E	-	-	-	-	-	-	-	-	-	-	-	-	-
07:00 AM - 08:00 AM	1.3	78.0	ENE	-	-	-	-	-	-	-	-	-	-	-	-	-
08:00 AM - 09:00 AM	0.3	81.0	E	-	-	-	-	-	-	-	-	-	-	-	-	-
09:00 AM - 10:00 AM	1.8	81.0	E	-	-	-	-	-	-	-	-	-	-	-	-	-
10:00 AM - 11:00 AM	0.5	87.0	E	-	-	-	-	-	-	-	-	-	-	-	-	-
11:00 AM - 12:00 PM	1.3	75.0	ENE	-	-	-	-	-	-	-	-	-	-	-	-	-

Reference Method : Cup Anemometer & Anodized Aluminium Vane Method

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## Analysis / Test Report

**Client** : Thai Polyethylene Co., Ltd.

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

**P/O** :

**Project Name** : Environmental Monitoring

**Project Location** : TPE Site 3

**Lot ID** : 22108166

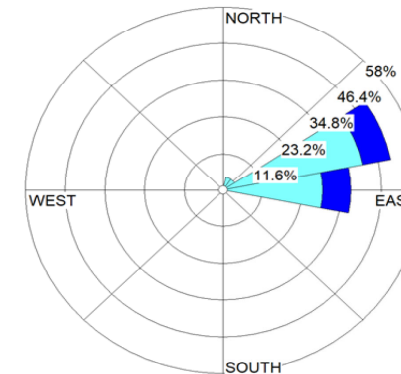
Date Received : Oct 06, 2022

Date Reported : Oct 11, 2022

Report Number : 2420934-1

Page 2 of 2

Wind Rose



Date : Oct 04-05, 2022

WS(m/s)	%
≥ 10.0	0.00
8.0-10.0	0.00
5.5-8.0	0.00
3.3-5.5	0.00
1.7-3.3	16.66
0.3-1.7	79.17
Calms	4.17

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## Analysis / Test Report

**Client** : Thai Polyethylene Co., Ltd.

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

**P/O** :

**Project Name** : Environmental Monitoring

**Project Location** : TPE Site 3

**Lot ID** : 22108166

Date Received : Oct 06, 2022

Date Reported : Oct 11, 2022

Report Number : 2420934-1

Page 1 of 2

**Sample Number** : 22108166-3  
**Parameter** : Wind Speed / Wind Direction  
**Location** : โรงเรียนบ้านมาบตาพุด (โศภนราษฎร์รังสรรค์)  
**Sampling Date** : Oct 04 - Oct 05, 2022  
**Sampling by** : Surasak Sachin

Time	Oct 04 - Oct 05, 2022		-		-		-		-		-		-		-	
	WS (m/s)	WD (deg)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11:00 AM - 12:00 PM	0.6	46.0	NE	-	-	-	-	-	-	-	-	-	-	-	-	-
12:00 PM - 01:00 PM	1.1	35.0	NE	-	-	-	-	-	-	-	-	-	-	-	-	-
01:00 PM - 02:00 PM	1.8	332.0	NNW	-	-	-	-	-	-	-	-	-	-	-	-	-
02:00 PM - 03:00 PM	3.1	347.0	NNW	-	-	-	-	-	-	-	-	-	-	-	-	-
03:00 PM - 04:00 PM	1.1	329.0	NNW	-	-	-	-	-	-	-	-	-	-	-	-	-
04:00 PM - 05:00 PM	3.3	63.0	ENE	-	-	-	-	-	-	-	-	-	-	-	-	-
05:00 PM - 06:00 PM	1.3	25.0	NNE	-	-	-	-	-	-	-	-	-	-	-	-	-
06:00 PM - 07:00 PM	0.3	59.0	ENE	-	-	-	-	-	-	-	-	-	-	-	-	-
07:00 PM - 08:00 PM	0.9	49.0	NE	-	-	-	-	-	-	-	-	-	-	-	-	-
08:00 PM - 09:00 PM	1.5	32.0	NNE	-	-	-	-	-	-	-	-	-	-	-	-	-
09:00 PM - 10:00 PM	0.6	47.0	NE	-	-	-	-	-	-	-	-	-	-	-	-	-
10:00 PM - 11:00 PM	0.3	36.0	NE	-	-	-	-	-	-	-	-	-	-	-	-	-
11:00 PM - 12:00 AM	0.7	42.0	NE	-	-	-	-	-	-	-	-	-	-	-	-	-
12:00 AM - 01:00 AM	0.7	31.0	NNE	-	-	-	-	-	-	-	-	-	-	-	-	-
01:00 AM - 02:00 AM	1.0	42.0	NE	-	-	-	-	-	-	-	-	-	-	-	-	-
02:00 AM - 03:00 AM	1.0	49.0	NE	-	-	-	-	-	-	-	-	-	-	-	-	-
03:00 AM - 04:00 AM	1.2	57.0	ENE	-	-	-	-	-	-	-	-	-	-	-	-	-
04:00 AM - 05:00 AM	1.1	64.0	ENE	-	-	-	-	-	-	-	-	-	-	-	-	-
05:00 AM - 06:00 AM	7.0	34.0	NE	-	-	-	-	-	-	-	-	-	-	-	-	-
06:00 AM - 07:00 AM	1.6	18.0	NNE	-	-	-	-	-	-	-	-	-	-	-	-	-
07:00 AM - 08:00 AM	1.6	82.0	E	-	-	-	-	-	-	-	-	-	-	-	-	-
08:00 AM - 09:00 AM	0.8	73.0	ENE	-	-	-	-	-	-	-	-	-	-	-	-	-
09:00 AM - 10:00 AM	0.5	63.0	ENE	-	-	-	-	-	-	-	-	-	-	-	-	-
10:00 AM - 11:00 AM	0.7	82.0	E	-	-	-	-	-	-	-	-	-	-	-	-	-

Reference Method : Cup Anemometer & Anodized Aluminium Vane Method

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## Analysis / Test Report

**Client** : Thai Polyethylene Co., Ltd.

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

**P/O** :

**Project Name** : Environmental Monitoring

**Project Location** : TPE Site 3

**Lot ID** : 22108166

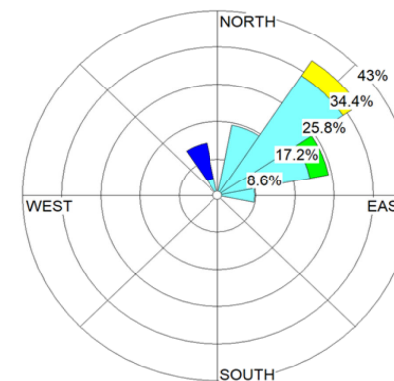
Date Received : Oct 06, 2022

Date Reported : Oct 11, 2022

Report Number : 2420934-1

Page 2 of 2

### Wind Rose



Date : Oct 04-05, 2022

WS(m/s)	%
≥ 10.0	0.00
8.0-10.0	0.00
5.5-8.0	4.17
3.3-5.5	4.17
1.7-3.3	8.33
0.3-1.7	83.33
Calms	0.00

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## Analysis / Test Report

**Client** : Thai Polyethylene Co., Ltd.

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

**P/O** :

**Project Name** : Environmental Monitoring

**Project Location** : TPE Site 3

**Lot ID** : 22132782

Date Received : Nov 02, 2022

Date Reported : Nov 09, 2022

Report Number : 2478428-1

Page 1 of 2

**Sample Number** : 22132782-1  
**Parameter** : Wind Speed / Wind Direction  
**Location** : พื้นที่โรงงาน  
**Sampling Date** : Nov 01 - Nov 02, 2022  
**Sampling by** : Jakkarin Manwicha

Time	Nov 01 - Nov 02, 2022		-		-		-		-		-		-	
	WS (m/s)	WD (deg)	-	-	-	-	-	-	-	-	-	-	-	-
01:00 PM - 02:00 PM	0.2	-	-	-	-	-	-	-	-	-	-	-	-	-
02:00 PM - 03:00 PM	0.3	207.0	SSW	-	-	-	-	-	-	-	-	-	-	-
03:00 PM - 04:00 PM	0.5	208.0	SSW	-	-	-	-	-	-	-	-	-	-	-
04:00 PM - 05:00 PM	0.7	211.0	SSW	-	-	-	-	-	-	-	-	-	-	-
05:00 PM - 06:00 PM	0.9	212.0	SSW	-	-	-	-	-	-	-	-	-	-	-
06:00 PM - 07:00 PM	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
07:00 PM - 08:00 PM	0.8	213.0	SSW	-	-	-	-	-	-	-	-	-	-	-
08:00 PM - 09:00 PM	0.5	212.0	SSW	-	-	-	-	-	-	-	-	-	-	-
09:00 PM - 10:00 PM	1.2	212.0	SSW	-	-	-	-	-	-	-	-	-	-	-
10:00 PM - 11:00 PM	0.3	213.0	SSW	-	-	-	-	-	-	-	-	-	-	-
11:00 PM - 12:00 AM	0.5	212.0	SSW	-	-	-	-	-	-	-	-	-	-	-
12:00 AM - 01:00 AM	0.9	211.0	SSW	-	-	-	-	-	-	-	-	-	-	-
01:00 AM - 02:00 AM	0.9	210.0	SSW	-	-	-	-	-	-	-	-	-	-	-
02:00 AM - 03:00 AM	0.0	-	-	-	-	-	-	-	-	-	-	-	-	-
03:00 AM - 04:00 AM	0.2	-	-	-	-	-	-	-	-	-	-	-	-	-
04:00 AM - 05:00 AM	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
05:00 AM - 06:00 AM	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
06:00 AM - 07:00 AM	0.0	-	-	-	-	-	-	-	-	-	-	-	-	-
07:00 AM - 08:00 AM	0.4	205.0	SSW	-	-	-	-	-	-	-	-	-	-	-
08:00 AM - 09:00 AM	1.7	205.0	SSW	-	-	-	-	-	-	-	-	-	-	-
09:00 AM - 10:00 AM	0.8	207.0	SSW	-	-	-	-	-	-	-	-	-	-	-
10:00 AM - 11:00 AM	1.3	209.0	SSW	-	-	-	-	-	-	-	-	-	-	-
11:00 AM - 12:00 PM	1.0	208.0	SSW	-	-	-	-	-	-	-	-	-	-	-
12:00 PM - 01:00 PM	0.8	206.0	SSW	-	-	-	-	-	-	-	-	-	-	-

Reference Method : Cup Anemometer & Anodized Aluminium Vane Method

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## Analysis / Test Report

**Client** : Thai Polyethylene Co., Ltd.

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

**P/O** :

**Project Name** : Environmental Monitoring

**Project Location** : TPE Site 3

**Lot ID** : 22132782

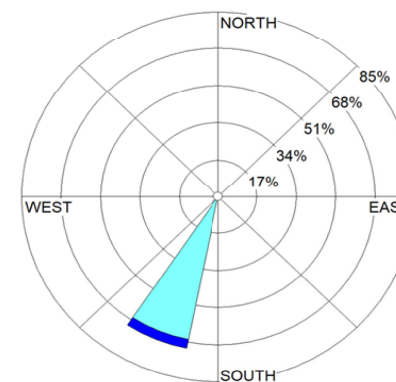
Date Received : Nov 02, 2022

Date Reported : Nov 09, 2022

Report Number : 2478428-1

Page 2 of 2

Wind Rose



Date : Nov 01-02, 2022

WS(m/s)	%
≥ 10.0	0.00
8.0-10.0	0.00
5.5-8.0	0.00
3.3-5.5	0.00
1.7-3.3	4.16
0.3-1.7	66.67
Calms	29.17

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Assistant General Manager

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

**Client** : Thai Polyethylene Co., Ltd.

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

**P/O** :

**Project Name** : Environmental Monitoring

**Project Location** : TPE Site 3

**Lot ID** : 22132782

Date Received : Nov 02, 2022

Date Reported : Nov 09, 2022

Report Number : 2478428-1

Page 1 of 2

**Sample Number** : 22132782-2  
**Parameter** : Wind Speed / Wind Direction  
**Location** : วัดหนองแฟบพิทักษ์นิราราม  
**Sampling Date** : Nov 01 - Nov 02, 2022  
**Sampling by** : Jakkarin Manwicha

Time	Nov 01 - Nov 02, 2022		-		-		-		-		-		-		-	
	WS (m/s)	WD (deg)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11:00 AM - 12:00 PM	2.8	128.0	SE	-	-	-	-	-	-	-	-	-	-	-	-	-
12:00 PM - 01:00 PM	1.7	324.0	NW	-	-	-	-	-	-	-	-	-	-	-	-	-
01:00 PM - 02:00 PM	1.6	139.0	SE	-	-	-	-	-	-	-	-	-	-	-	-	-
02:00 PM - 03:00 PM	1.4	4.0	N	-	-	-	-	-	-	-	-	-	-	-	-	-
03:00 PM - 04:00 PM	1.3	128.0	SE	-	-	-	-	-	-	-	-	-	-	-	-	-
04:00 PM - 05:00 PM	0.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
05:00 PM - 06:00 PM	0.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
06:00 PM - 07:00 PM	0.5	316.0	NW	-	-	-	-	-	-	-	-	-	-	-	-	-
07:00 PM - 08:00 PM	0.6	30.0	NNE	-	-	-	-	-	-	-	-	-	-	-	-	-
08:00 PM - 09:00 PM	0.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
09:00 PM - 10:00 PM	1.7	50.0	NE	-	-	-	-	-	-	-	-	-	-	-	-	-
10:00 PM - 11:00 PM	0.7	7.0	N	-	-	-	-	-	-	-	-	-	-	-	-	-
11:00 PM - 12:00 AM	1.5	48.0	NE	-	-	-	-	-	-	-	-	-	-	-	-	-
12:00 AM - 01:00 AM	1.7	84.0	E	-	-	-	-	-	-	-	-	-	-	-	-	-
01:00 AM - 02:00 AM	1.5	72.0	ENE	-	-	-	-	-	-	-	-	-	-	-	-	-
02:00 AM - 03:00 AM	0.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
03:00 AM - 04:00 AM	0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
04:00 AM - 05:00 AM	0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
05:00 AM - 06:00 AM	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
06:00 AM - 07:00 AM	0.6	75.0	ENE	-	-	-	-	-	-	-	-	-	-	-	-	-
07:00 AM - 08:00 AM	0.9	15.0	NNE	-	-	-	-	-	-	-	-	-	-	-	-	-
08:00 AM - 09:00 AM	1.2	32.0	NNE	-	-	-	-	-	-	-	-	-	-	-	-	-
09:00 AM - 10:00 AM	1.0	51.0	NE	-	-	-	-	-	-	-	-	-	-	-	-	-
10:00 AM - 11:00 AM	0.8	30.0	NNE	-	-	-	-	-	-	-	-	-	-	-	-	-

Reference Method : Cup Anemometer & Anodized Aluminium Vane Method

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

**Client** : Thai Polyethylene Co., Ltd.

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

**P/O** :

**Project Name** : Environmental Monitoring

**Project Location** : TPE Site 3

**Lot ID** : 22132782

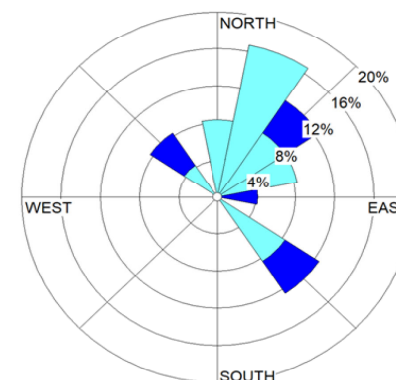
Date Received : Nov 02, 2022

Date Reported : Nov 09, 2022

Report Number : 2478428-1

Page 2 of 2

Wind Rose



Date : Nov 01-02, 2022

WS(m/s)	%
≥ 10.0	0.00
8.0-10.0	0.00
5.5-8.0	0.00
3.3-5.5	0.00
1.7-3.3	16.66
0.3-1.7	54.17
Calms	29.17

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## Analysis / Test Report

**Client** : Thai Polyethylene Co., Ltd.

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

**P/O** :

**Project Name** : Environmental Monitoring

**Project Location** : TPE Site 3

**Lot ID** : 22132782

Date Received : Nov 02, 2022

Date Reported : Nov 09, 2022

Report Number : 2478428-1

Page 1 of 2

**Sample Number** : 22132782-3

**Parameter** : Wind Speed / Wind Direction

**Location** : โรงเรียนบ้านมาบตาพุด (ใกล้ถนนสุขุมวิท)

**Sampling Date** : Nov 01 - Nov 02, 2022

**Sampling by** : Jakkarin Manwicha

Time	Nov 01 - Nov 02, 2022		-		-		-		-		-		-		-	
	WS (m/s)	WD (deg)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
02:00 PM - 03:00 PM	0.8	60.0	ENE	-	-	-	-	-	-	-	-	-	-	-	-	-
03:00 PM - 04:00 PM	2.4	246.0	WSW	-	-	-	-	-	-	-	-	-	-	-	-	-
04:00 PM - 05:00 PM	1.7	68.0	ENE	-	-	-	-	-	-	-	-	-	-	-	-	-
05:00 PM - 06:00 PM	1.2	72.0	ENE	-	-	-	-	-	-	-	-	-	-	-	-	-
06:00 PM - 07:00 PM	0.8	53.0	NE	-	-	-	-	-	-	-	-	-	-	-	-	-
07:00 PM - 08:00 PM	1.4	89.0	E	-	-	-	-	-	-	-	-	-	-	-	-	-
08:00 PM - 09:00 PM	1.0	81.0	E	-	-	-	-	-	-	-	-	-	-	-	-	-
09:00 PM - 10:00 PM	1.5	276.0	W	-	-	-	-	-	-	-	-	-	-	-	-	-
10:00 PM - 11:00 PM	1.7	234.0	SW	-	-	-	-	-	-	-	-	-	-	-	-	-
11:00 PM - 12:00 AM	1.0	69.0	ENE	-	-	-	-	-	-	-	-	-	-	-	-	-
12:00 AM - 01:00 AM	0.8	278.0	W	-	-	-	-	-	-	-	-	-	-	-	-	-
01:00 AM - 02:00 AM	0.4	295.0	WNW	-	-	-	-	-	-	-	-	-	-	-	-	-
02:00 AM - 03:00 AM	1.2	300.0	WNW	-	-	-	-	-	-	-	-	-	-	-	-	-
03:00 AM - 04:00 AM	0.3	316.0	NW	-	-	-	-	-	-	-	-	-	-	-	-	-
04:00 AM - 05:00 AM	0.5	285.0	WNW	-	-	-	-	-	-	-	-	-	-	-	-	-
05:00 AM - 06:00 AM	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
06:00 AM - 07:00 AM	0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
07:00 AM - 08:00 AM	1.0	200.0	WNW	-	-	-	-	-	-	-	-	-	-	-	-	-
08:00 AM - 09:00 AM	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
09:00 AM - 10:00 AM	1.1	48.0	NE	-	-	-	-	-	-	-	-	-	-	-	-	-
10:00 AM - 11:00 AM	1.4	84.0	E	-	-	-	-	-	-	-	-	-	-	-	-	-
11:00 AM - 12:00 PM	0.4	15.0	NNE	-	-	-	-	-	-	-	-	-	-	-	-	-
12:00 PM - 01:00 PM	1.2	64.0	ENE	-	-	-	-	-	-	-	-	-	-	-	-	-
01:00 PM - 02:00 PM	0.6	53.0	NE	-	-	-	-	-	-	-	-	-	-	-	-	-

Reference Method : Cup Anemometer & Anodized Aluminium Vane Method

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Assistant General Manager

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## Analysis / Test Report

**Client** : Thai Polyethylene Co., Ltd.

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

**P/O** :

**Project Name** : Environmental Monitoring

**Project Location** : TPE Site 3

**Lot ID** : 22132782

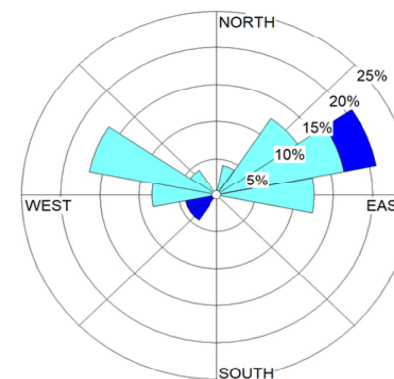
Date Received : Nov 02, 2022

Date Reported : Nov 09, 2022

Report Number : 2478428-1

Page 2 of 2

Wind Rose



Date : Nov 01-02, 2022

WS(m/s)	%
≥ 10.0	0.00
8.0-10.0	0.00
5.5-8.0	0.00
3.3-5.5	0.00
1.7-3.3	12.50
0.3-1.7	75.00
Calms	12.50

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Assistant General Manager

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## Analysis / Test Report

**Client** : Thai Polyethylene Co., Ltd.

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

**P/O** :

**Project Name** : Environmental Monitoring

**Project Location** : TPE Site 3

**Lot ID** : 22136508

Date Received : Dec 02, 2022

Date Reported : Dec 08, 2022

Report Number : 2487047-1

Page 1 of 2

**Sample Number** : 22136508-1  
**Parameter** : Wind Speed / Wind Direction  
**Location** : พื้นที่โรงงาน  
**Sampling Date** : Dec 01 - Dec 02, 2022  
**Sampling by** : Peerapat Kahkam

Time	Dec 01 - Dec 02, 2022		-		-		-		-		-		-		-	
	WS (m/s)	WD (deg)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10:00 AM - 11:00 AM	0.3	10.0	N	-	-	-	-	-	-	-	-	-	-	-	-	-
11:00 AM - 12:00 PM	1.3	346.0	NNW	-	-	-	-	-	-	-	-	-	-	-	-	-
12:00 PM - 01:00 PM	0.5	267.0	W	-	-	-	-	-	-	-	-	-	-	-	-	-
01:00 PM - 02:00 PM	0.9	244.0	WSW	-	-	-	-	-	-	-	-	-	-	-	-	-
02:00 PM - 03:00 PM	0.3	201.0	SSW	-	-	-	-	-	-	-	-	-	-	-	-	-
03:00 PM - 04:00 PM	1.4	87.0	E	-	-	-	-	-	-	-	-	-	-	-	-	-
04:00 PM - 05:00 PM	1.1	116.0	ESE	-	-	-	-	-	-	-	-	-	-	-	-	-
05:00 PM - 06:00 PM	0.8	163.0	SSE	-	-	-	-	-	-	-	-	-	-	-	-	-
06:00 PM - 07:00 PM	0.6	185.0	S	-	-	-	-	-	-	-	-	-	-	-	-	-
07:00 PM - 08:00 PM	1.3	210.0	SSW	-	-	-	-	-	-	-	-	-	-	-	-	-
08:00 PM - 09:00 PM	0.9	185.0	S	-	-	-	-	-	-	-	-	-	-	-	-	-
09:00 PM - 10:00 PM	1.2	190.0	S	-	-	-	-	-	-	-	-	-	-	-	-	-
10:00 PM - 11:00 PM	1.0	136.0	SE	-	-	-	-	-	-	-	-	-	-	-	-	-
11:00 PM - 12:00 AM	0.4	115.0	ESE	-	-	-	-	-	-	-	-	-	-	-	-	-
12:00 AM - 01:00 AM	0.6	26.0	NNE	-	-	-	-	-	-	-	-	-	-	-	-	-
01:00 AM - 02:00 AM	0.5	23.0	NNE	-	-	-	-	-	-	-	-	-	-	-	-	-
02:00 AM - 03:00 AM	0.8	130.0	SE	-	-	-	-	-	-	-	-	-	-	-	-	-
03:00 AM - 04:00 AM	1.0	161.0	SSE	-	-	-	-	-	-	-	-	-	-	-	-	-
04:00 AM - 05:00 AM	1.1	77.0	ENE	-	-	-	-	-	-	-	-	-	-	-	-	-
05:00 AM - 06:00 AM	0.7	86.0	E	-	-	-	-	-	-	-	-	-	-	-	-	-
06:00 AM - 07:00 AM	0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
07:00 AM - 08:00 AM	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
08:00 AM - 09:00 AM	0.6	52.0	NE	-	-	-	-	-	-	-	-	-	-	-	-	-
09:00 AM - 10:00 AM	0.9	33.0	NNE	-	-	-	-	-	-	-	-	-	-	-	-	-

Reference Method : Cup Anemometer & Anodized Aluminium Vane Method

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## Analysis / Test Report

**Client** : Thai Polyethylene Co., Ltd.

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

**P/O** :

**Project Name** : Environmental Monitoring

**Project Location** : TPE Site 3

**Lot ID** : 22136508

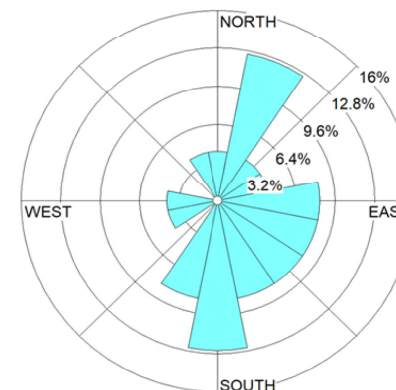
Date Received : Dec 02, 2022

Date Reported : Dec 08, 2022

Report Number : 2487047-1

Page 2 of 2

Wind Rose



Date : Dec 01-02, 2022

WS(m/s)	%
≥ 10.0	0.00
8.0-10.0	0.00
5.5-8.0	0.00
3.3-5.5	0.00
1.7-3.3	0.00
0.3-1.7	91.67
Calms	8.33

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## Analysis / Test Report

**Client** : Thai Polyethylene Co., Ltd.

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

**P/O** :

**Project Name** : Environmental Monitoring

**Project Location** : TPE Site 3

**Lot ID** : 22136508

Date Received : Dec 02, 2022

Date Reported : Dec 08, 2022

Report Number : 2487047-1

Page 1 of 2

**Sample Number** : 22136508-2  
**Parameter** : Wind Speed / Wind Direction  
**Location** : วัดหนองแฟบพิทักษ์นิคม  
**Sampling Date** : Dec 01 - Dec 02, 2022  
**Sampling by** : Peerapat Kahkam

Time	Dec 01 - Dec 02, 2022		-		-		-		-		-		-		-	
	WS (m/s)	WD (deg)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10:00 AM - 11:00 AM	1.3	18.0	NNE	-	-	-	-	-	-	-	-	-	-	-	-	-
11:00 AM - 12:00 PM	1.6	174.0	S	-	-	-	-	-	-	-	-	-	-	-	-	-
12:00 PM - 01:00 PM	4.4	117.0	ESE	-	-	-	-	-	-	-	-	-	-	-	-	-
01:00 PM - 02:00 PM	2.2	266.0	W	-	-	-	-	-	-	-	-	-	-	-	-	-
02:00 PM - 03:00 PM	4.5	283.0	WNW	-	-	-	-	-	-	-	-	-	-	-	-	-
03:00 PM - 04:00 PM	4.5	324.0	NW	-	-	-	-	-	-	-	-	-	-	-	-	-
04:00 PM - 05:00 PM	3.8	356.0	N	-	-	-	-	-	-	-	-	-	-	-	-	-
05:00 PM - 06:00 PM	0.4	0.0	N	-	-	-	-	-	-	-	-	-	-	-	-	-
06:00 PM - 07:00 PM	0.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
07:00 PM - 08:00 PM	0.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
08:00 PM - 09:00 PM	0.3	44.0	NE	-	-	-	-	-	-	-	-	-	-	-	-	-
09:00 PM - 10:00 PM	0.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10:00 PM - 11:00 PM	0.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11:00 PM - 12:00 AM	0.3	359.0	N	-	-	-	-	-	-	-	-	-	-	-	-	-
12:00 AM - 01:00 AM	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
01:00 AM - 02:00 AM	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
02:00 AM - 03:00 AM	0.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
03:00 AM - 04:00 AM	0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
04:00 AM - 05:00 AM	0.3	140.0	SE	-	-	-	-	-	-	-	-	-	-	-	-	-
05:00 AM - 06:00 AM	0.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
06:00 AM - 07:00 AM	2.1	112.0	ESE	-	-	-	-	-	-	-	-	-	-	-	-	-
07:00 AM - 08:00 AM	2.2	151.0	SSE	-	-	-	-	-	-	-	-	-	-	-	-	-
08:00 AM - 09:00 AM	1.9	136.0	SE	-	-	-	-	-	-	-	-	-	-	-	-	-
09:00 AM - 10:00 AM	1.6	132.0	SE	-	-	-	-	-	-	-	-	-	-	-	-	-

Reference Method : Cup Anemometer & Anodized Aluminium Vane Method

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## Analysis / Test Report

**Client** : Thai Polyethylene Co., Ltd.

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

**P/O** :

**Project Name** : Environmental Monitoring

**Project Location** : TPE Site 3

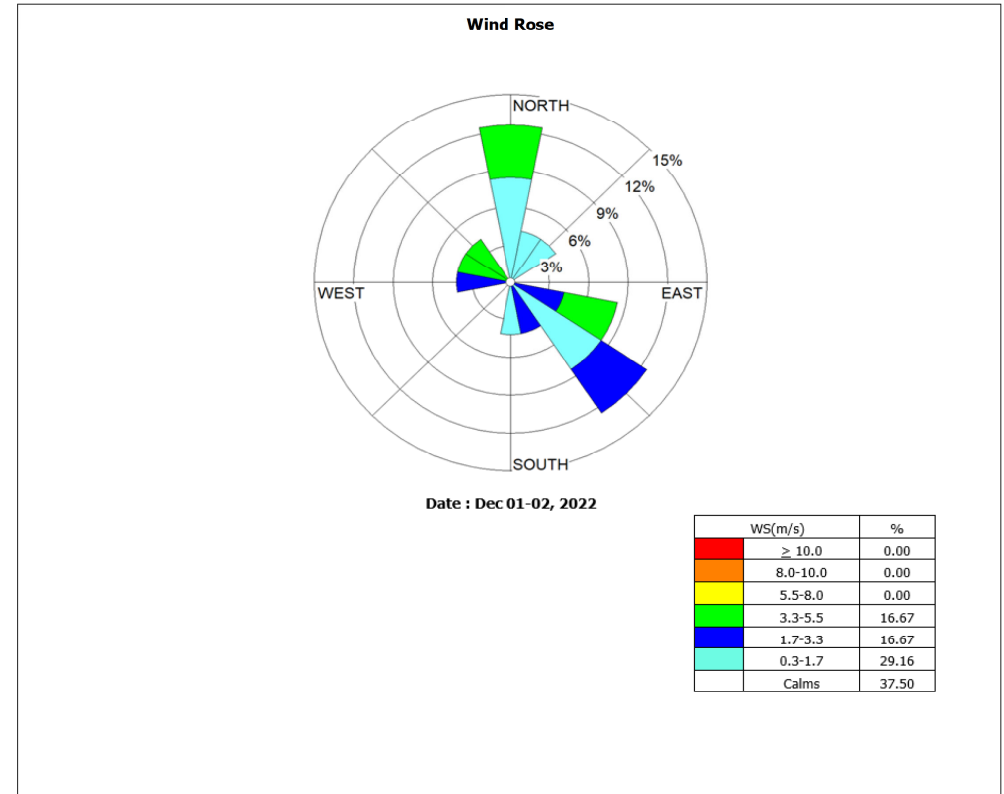
**Lot ID** : 22136508

Date Received : Dec 02, 2022

Date Reported : Dec 08, 2022

Report Number : 2487047-1

Page 2 of 2



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Approved by

Sarayuth Jittranoit  
Assistant General Manager

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## Analysis / Test Report

**Client** : Thai Polyethylene Co., Ltd.

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

**P/O** :

**Project Name** : Environmental Monitoring

**Project Location** : TPE Site 3

**Lot ID** : 22136508

Date Received : Dec 02, 2022

Date Reported : Dec 08, 2022

Report Number : 2487047-1

Page 1 of 2

**Sample Number** : 22136508-3  
**Parameter** : Wind Speed / Wind Direction  
**Location** : โรงเรียนบ้านมาบตาพุด (โศภนราษฎร์รังสรรค์)  
**Sampling Date** : Dec 01 - Dec 02, 2022  
**Sampling by** : Peerapat Kahkam

Time	Dec 01 - Dec 02, 2022		-		-		-		-		-		-		-	
	WS (m/s)	WD (deg)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11:00 AM - 12:00 PM	0.4	43.0	NE	-	-	-	-	-	-	-	-	-	-	-	-	-
12:00 PM - 01:00 PM	0.8	51.0	NE	-	-	-	-	-	-	-	-	-	-	-	-	-
01:00 PM - 02:00 PM	0.4	16.0	NNE	-	-	-	-	-	-	-	-	-	-	-	-	-
02:00 PM - 03:00 PM	1.0	10.0	N	-	-	-	-	-	-	-	-	-	-	-	-	-
03:00 PM - 04:00 PM	0.9	40.0	NE	-	-	-	-	-	-	-	-	-	-	-	-	-
04:00 PM - 05:00 PM	1.1	79.0	E	-	-	-	-	-	-	-	-	-	-	-	-	-
05:00 PM - 06:00 PM	0.4	104.0	ESE	-	-	-	-	-	-	-	-	-	-	-	-	-
06:00 PM - 07:00 PM	0.8	50.0	NE	-	-	-	-	-	-	-	-	-	-	-	-	-
07:00 PM - 08:00 PM	1.1	91.0	E	-	-	-	-	-	-	-	-	-	-	-	-	-
08:00 PM - 09:00 PM	2.1	212.0	SSW	-	-	-	-	-	-	-	-	-	-	-	-	-
09:00 PM - 10:00 PM	0.5	219.0	SW	-	-	-	-	-	-	-	-	-	-	-	-	-
10:00 PM - 11:00 PM	2.4	184.0	S	-	-	-	-	-	-	-	-	-	-	-	-	-
11:00 PM - 12:00 AM	0.6	177.0	S	-	-	-	-	-	-	-	-	-	-	-	-	-
12:00 AM - 01:00 AM	1.2	79.0	E	-	-	-	-	-	-	-	-	-	-	-	-	-
01:00 AM - 02:00 AM	1.3	91.0	E	-	-	-	-	-	-	-	-	-	-	-	-	-
02:00 AM - 03:00 AM	0.9	44.0	NE	-	-	-	-	-	-	-	-	-	-	-	-	-
03:00 AM - 04:00 AM	0.9	63.0	ENE	-	-	-	-	-	-	-	-	-	-	-	-	-
04:00 AM - 05:00 AM	1.1	50.0	NE	-	-	-	-	-	-	-	-	-	-	-	-	-
05:00 AM - 06:00 AM	0.7	68.0	ENE	-	-	-	-	-	-	-	-	-	-	-	-	-
06:00 AM - 07:00 AM	0.5	14.0	NNE	-	-	-	-	-	-	-	-	-	-	-	-	-
07:00 AM - 08:00 AM	1.4	355.0	N	-	-	-	-	-	-	-	-	-	-	-	-	-
08:00 AM - 09:00 AM	1.2	331.0	NNW	-	-	-	-	-	-	-	-	-	-	-	-	-
09:00 AM - 10:00 AM	1.3	312.0	NW	-	-	-	-	-	-	-	-	-	-	-	-	-
10:00 AM - 11:00 AM	1.0	100.0	E	-	-	-	-	-	-	-	-	-	-	-	-	-

Reference Method : Cup Anemometer & Anodized Aluminium Vane Method

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Approved by

Sarayuth Jitranont  
Assistant General Manager

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## Analysis / Test Report

**Client** : Thai Polyethylene Co., Ltd.

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

**P/O** :

**Project Name** : Environmental Monitoring

**Project Location** : TPE Site 3

**Lot ID** : 22136508

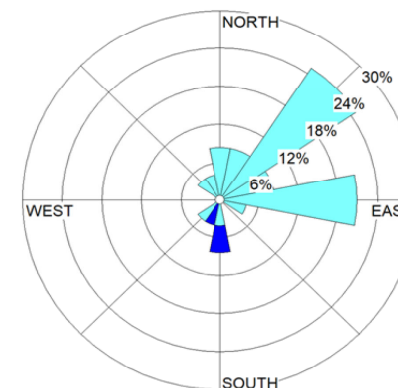
Date Received : Dec 02, 2022

Date Reported : Dec 08, 2022

Report Number : 2487047-1

Page 2 of 2

Wind Rose



Date : Dec 01-02, 2022

WS(m/s)	%
> 10.0	0.00
8.0-10.0	0.00
5.5-8.0	0.00
3.3-5.5	0.00
1.7-3.3	8.33
0.3-1.7	91.67
Calms	0.00

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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** : HDPE#2



**TESTING**  
**No.0042**  
**Lot ID: 2270011**  
Date Received : Jul 04, 2022  
Date Reported : Jul 11, 2022  
Report Number : 2336712-1

Page 1 of 1

<b>Sample Number</b>	2270011-1						
<b>Sampled Date</b>	Jul 04, 2022 1:55 PM						
<b>Sample Description</b>	Wastewater						
<b>Location</b>	HD2 : API Separator ปล่อยเกินหลังการนำน้ำ						
<b>Date Analysis Commenced</b>	Jul 04, 2022						
<b>Condition of Sample</b>	Contained in one amber glass bottle, three plastic bottles and one BOD bottle, 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	104	≤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		-	-	8.2	5.5-9.0	Based on APHA (2017), 4500-H (B)	Rayong
Temperature *	Degree C	-	-	39.5	≤40	Based on APHA (2017), 2550 B	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** : Chainusorn Lertnanthakunchai

Remark :

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

Technical Management

*N. Banphit*

Narumon Banchongkit  
Supervisor  
ทะเบียนเลขที่ ว-323-จ-9445

Approved by

*D. Changchon*

Dej Changchon  
Senior Manager  
ทะเบียนเลขที่ ว-323-จ-9442

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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** : HDPE#2

**Lot ID: 2270011**

Date Received : Jul 04, 2022  
Date Reported : Jul 11, 2022  
Report Number : 2336712-2

Page 1 of 1

<b>Sample Number</b>	2270011-1						
<b>Sampled Date</b>	Jul 04, 2022 1:55 PM						
<b>Sample Description</b>	Wastewater						
<b>Location</b>	HD2 : API Separator ปล่อยเกินหลังการนำน้ำ						
<b>Date Analysis Commenced</b>	Jul 05, 2022						
<b>Condition of Sample</b>	Contained in one amber glass bottle, three plastic bottles and one BOD bottle, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
Dissolved Oxygen	mg/L	-	0.1	3.8	No Standard	Based on APHA (2017), 4500-O(C)	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** : Chainusorn Lertnanthakunchai

Remark :

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Approved by

*N. Banphit*

Narumon Banchongkit  
Supervisor

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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 : HDPE#2



TESTING  
No.0042

Lot ID: 2286892

Date Received : Jul 19, 2022

Date Reported : Jul 22, 2022

Report Number : 2375598-1

Page 1 of 1

Sample Number	2286892-1
Sampled Date	Jul 19, 2022 10:30 AM
Sample Description	Wastewater
Location	HD2 : API Separator ปล่อยเก็บหลังการบำบัด
Date Analysis Commenced	Jul 20, 2022
Condition of Sample	Contained in one plastic bottle, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	1250	≤3000	APHA (2017), 2540 C	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

Remark :

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Technical Management

*N. Banphit*

Narumon Banchongkit  
Supervisor  
ทะเบียนเลขที่ ว-323-จ-9445

Approved by

*D. Chanchon*

Dej Changchon  
Senior Manager  
ทะเบียนเลขที่ ว-323-จ-9442

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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 : HDPE#2



TESTING  
No.0042

Lot ID: 2274552

Date Received : Aug 04, 2022

Date Reported : Aug 25, 2022

Report Number : 2346678-1 Rev. No.1

Page 1 of 1

Sample Number	2274552-1
Sampled Date	Aug 04, 2022 1:55 PM
Sample Description	Wastewater
Location	HD2 : API Separator ปล่อยเก็บหลังการบำบัด
Date Analysis Commenced	Aug 05, 2022
Condition of Sample	Contained in one BOD bottle, 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	19	≤20	APHA (2017), 5210 B	Rayong
COD	mg/L	1.5	5	105	≤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		-	-	7.1	5.5-9.0	Based on APHA (2017), 4500-H (B)	Rayong
Temperature *	Degree C	-	-	39.5	≤40	Based on APHA (2017), 2550 B	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	7	≤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).

**Note** : This Analysis test report is reissued to supersede report No.2346678-1, Date Reported : Aug 11, 2022 due to revise analytical information.

**Sampled By** : Chainusorn Lertnanthakunchai

Remark :

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Technical Management

*N. Banphit*

Narumon Banchongkit  
Supervisor  
ทะเบียนเลขที่ ว-323-จ-9445

Approved by

*D. Chanchon*

Dej Changchon  
Senior Manager  
ทะเบียนเลขที่ ว-323-จ-9442

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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** : HDPE#2

**Lot ID: 2274552**

Date Received : Aug 04, 2022

Date Reported : Aug 25, 2022

Report Number : 2346678-2 Rev. No.1

Page 1 of 1

<b>Sample Number</b>	2274552-1
<b>Sampled Date</b>	Aug 04, 2022 1:55 PM
<b>Sample Description</b>	Wastewater
<b>Location</b>	HD2 : API Separator ปล่อยเก็บหลังการนำน้ำ
<b>Date Analysis Commenced</b>	Aug 05, 2022
<b>Condition of Sample</b>	Contained in one BOD bottle, 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>							
Dissolved Oxygen	mg/L	-	0.1	7.6	No Standard	Based on APHA (2017), 4500-O(C) 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).

**Note** : This Analysis test report is reissued to supersede report No.2346678-2, Date Reported : Aug 11, 2022 due to revise analytical information.

**Sampled By** : Chainusorn Lertnanthakunchai

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Approved by

*N. Banchongkit*

Narumon Banchongkit  
Supervisor

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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** : HDPE#2



TESTING  
No.0042

**Lot ID: 22101588**

Date Received : Aug 18, 2022

Date Reported : Aug 22, 2022

Report Number : 2407155-1

Page 1 of 1

<b>Sample Number</b>	22101588-1
<b>Sampled Date</b>	Aug 18, 2022 9:55 AM
<b>Sample Description</b>	Wastewater
<b>Location</b>	HD2 : API Separator ปล่อยเก็บหลังการนำน้ำ
<b>Date Analysis Commenced</b>	Aug 19, 2022
<b>Condition of Sample</b>	Contained in one plastic bottle, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	1610	≤3000	APHA (2017), 2540 C	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** : Chainusorn Lertnanthakunchai

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Technical Management

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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

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271, Sukhumvit Road, Tambol Map Ta Phut, Amphur Muang, Rayong Thailand 21150  
**P/O** :  
**Project Name** : Environmental Monitoring  
**Project Location** : HDPE#2



**TESTING**  
**No.0042**  
**Lot ID: 2297032**  
Date Received : Sep 16, 2022  
Date Reported : Sep 23, 2022  
Report Number : 2398361-1

Page 1 of 1

<b>Sample Number</b>	2297032-1						
<b>Sampled Date</b>	Sep 16, 2022 9:35 AM						
<b>Sample Description</b>	Wastewater						
<b>Location</b>	HD2 : API Separator ปล่อยเก็บหลังการนำมัต						
<b>Date Analysis Commenced</b>	Sep 16, 2022						
<b>Condition of Sample</b>	Contained in one amber glass bottle, one BOD 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	<5	≤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		-	-	6.5	5.5-9.0	Based on APHA (2017), 4500-H (B)	Rayong
Temperature *	Degree C	-	-	29.6	≤40	Based on APHA (2017), 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	204	≤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

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

Technical Management

*N. Banphit*

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.  
271, Sukhumvit Road, Tambol Map Ta Phut, Amphur Muang, Rayong Thailand 21150  
**P/O** :  
**Project Name** : Environmental Monitoring  
**Project Location** : HDPE#2

**Lot ID: 2297032**

Date Received : Sep 16, 2022  
Date Reported : Sep 23, 2022  
Report Number : 2398361-2

Page 1 of 1

<b>Sample Number</b>	2297032-1						
<b>Sampled Date</b>	Sep 16, 2022 9:35 AM						
<b>Sample Description</b>	Wastewater						
<b>Location</b>	HD2 : API Separator ปล่อยเก็บหลังการนำมัต						
<b>Date Analysis Commenced</b>	Sep 17, 2022						
<b>Condition of Sample</b>	Contained in one amber glass bottle, one BOD 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>							
Dissolved Oxygen	mg/L	-	0.1	5.2	No Standard	Based on APHA (2017), 4500-O(C)	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

Remark :  
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Approved by

*N. Banphit*

Narumon Banchongkit  
Supervisor

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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** : HDPE#2



**TESTING**  
No.0042  
**Lot ID: 22108169**  
Date Received : Oct 06, 2022  
Date Reported : Oct 14, 2022  
Report Number : 2420936-1

Page 1 of 1

<b>Sample Number</b>	22108169-1						
<b>Sampled Date</b>	Oct 06, 2022 2:01 PM						
<b>Sample Description</b>	Wastewater						
<b>Location</b>	HD2 : API Separator ใกล้กับหลังการนำน้ำ						
<b>Date Analysis Commenced</b>	Oct 06, 2022						
<b>Condition of Sample</b>	Contained in one BOD bottle, 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	58	≤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		-	-	7.3	5.5-9.0	Based on APHA (2017), 4500-H (B)	Rayong
Temperature *	Degree C	-	-	38.9	≤40	Based on APHA (2017), 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	2090	≤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** : Chainusorn Lertnanthakunchai

Remark :  
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Technical Management

*N. Banphit*

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.  
271, Sukhumvit Road, Tambol Map Ta Phut, Amphur Muang, Rayong Thailand 21150  
**P/O** :  
**Project Name** : Environmental Monitoring  
**Project Location** : HDPE#2

**Lot ID: 22108169**  
Date Received : Oct 06, 2022  
Date Reported : Oct 14, 2022  
Report Number : 2420936-2

Page 1 of 1

<b>Sample Number</b>	22108169-1						
<b>Sampled Date</b>	Oct 06, 2022 2:01 PM						
<b>Sample Description</b>	Wastewater						
<b>Location</b>	HD2 : API Separator ใกล้กับหลังการนำน้ำ						
<b>Date Analysis Commenced</b>	Oct 07, 2022						
<b>Condition of Sample</b>	Contained in one BOD bottle, 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>							
Dissolved Oxygen	mg/L	-	0.1	4.8	No Standard	Based on APHA (2017), 4500-O(C)	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** : Chainusorn Lertnanthakunchai

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## Analysis / Test Report

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

**P/O** :

**Project Name** : Environmental Monitoring

**Project Location** : HDPE#2



TESTING

No.0042

**Lot ID: 22125009**

Date Received : Nov 03, 2022

Date Reported : Nov 10, 2022

Report Number : 2460406-1

Page 1 of 1

<b>Sample Number</b>	22125009-1						
<b>Sampled Date</b>	Nov 03, 2022 10:55 AM						
<b>Sample Description</b>	Wastewater						
<b>Location</b>	HD2 : API Separator ปล่อยเก็บหลังการนำน้ำ						
<b>Date Analysis Commenced</b>	Nov 03, 2022						
<b>Condition of Sample</b>	Contained in one amber glass bottle, one BOD 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	16	≤20	APHA (2017), 5210 B	Rayong
COD	mg/L	1.5	5	115	≤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		-	-	7.9	5.5-9.0	Based on APHA (2017), 4500-H (B)	Rayong
Temperature *	Degree C	-	-	39.5	≤40	Based on APHA (2017), 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	2000	≤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).

**Sampled By** : Chainusorn Lertnanthakunchai

Remark :

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

*N. Banphit*

Narumon Banchongkit  
Supervisor

ทะเบียนเลขที่ ว-323-จ-9445

Approved by

*D. Changchon*

Dej Changchon  
Senior Manager

ทะเบียนเลขที่ ว-323-จ-9442

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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** : HDPE#2

**Lot ID: 22125009**

Date Received : Nov 03, 2022

Date Reported : Nov 10, 2022

Report Number : 2460406-2

Page 1 of 1

<b>Sample Number</b>	22125009-1						
<b>Sampled Date</b>	Nov 03, 2022 10:55 AM						
<b>Sample Description</b>	Wastewater						
<b>Location</b>	HD2 : API Separator ปล่อยเก็บหลังการนำน้ำ						
<b>Date Analysis Commenced</b>	Nov 04, 2022						
<b>Condition of Sample</b>	Contained in one amber glass bottle, one BOD 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>							
Dissolved Oxygen	mg/L	-	0.1	1.5	No Standard	Based on APHA (2017), 4500-O(C)	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** : Chainusorn Lertnanthakunchai

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Supervisor

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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** : HDPE#2



TESTING  
No.0042

**Lot ID: 22136509**

Date Received : Dec 01, 2022

Date Reported : Dec 09, 2022

Report Number : 2487050-1

Page 1 of 2

<b>Sample Number</b>	22136509-1						
<b>Sampled Date</b>	Dec 01, 2022 9:40 AM						
<b>Sample Description</b>	Wastewater						
<b>Location</b>	HD2 : API Separator ปล่อยน้ำหลังการนำฉีด						
<b>Date Analysis Commenced</b>	Dec 01, 2022						
<b>Condition of Sample</b>	Contained in one BOD bottle, 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	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B	Rayong
COD	mg/L	1.5	5	18	≤120	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Rayong
Color (at Original pH)	ADMI	-	5	<5	≤300	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2120 F	Rayong
Color (at pH 7.0)	ADMI	-	5	<5	≤300	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2120 F	Rayong
Oil & Grease *	mg/L	-	3	<3	≤5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
pH at 25 degree C *		-	-	7.7	5.5-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	31.0	≤40	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	512	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	8	≤50	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

**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).

Technical Management

*N. Banchoangkit*

Narumon Banchoangkit  
Supervisor  
ทะเบียนเลขที่ ว-323-จ-9445

Approved by

*D. Changchon*

Dej Changchon  
Senior Manager  
ทะเบียนเลขที่ ว-323-จ-9442

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## Analysis / Test Report

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

**P/O** :

**Project Name** : Environmental Monitoring

**Project Location** : HDPE#2



TESTING  
No.0042

**Lot ID: 22136509**

Date Received : Dec 01, 2022

Date Reported : Dec 09, 2022

Report Number : 2487050-1

Page 2 of 2

**Sampled By** : Narunat thammasaro

Remark :

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Technical Management

*N. Banchoangkit*

Narumon Banchoangkit  
Supervisor  
ทะเบียนเลขที่ ว-323-จ-9445

Approved by

*D. Changchon*

Dej Changchon  
Senior Manager  
ทะเบียนเลขที่ ว-323-จ-9442

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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 :** HDPE#2

**Lot ID: 22136509**

Date Received : Dec 01, 2022

Date Reported : Dec 09, 2022

Report Number : 2487050-2

Page 1 of 1

<b>Sample Number</b>	22136509-1						
<b>Sampled Date</b>	Dec 01, 2022 9:40 AM						
<b>Sample Description</b>	Wastewater						
<b>Location</b>	HD2 : API Separator บ่อพักเก็บหลังการบำบัด						
<b>Date Analysis Commenced</b>	Dec 02, 2022						
<b>Condition of Sample</b>	Contained in one BOD bottle, 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>							
Dissolved Oxygen	mg/L	-	0.1	6.6	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-O (C)	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 :** Narunat thammasaro

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Supervisor

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**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** : HDPE#2

**Lot ID: 2296691**

Date Received : Sep 15, 2022

Date Reported : Sep 23, 2022

Report Number : 2443516-1

Page 1 of 1

<b>Sample Number</b>	2296691-1
<b>Sampled Date</b>	Sep 15, 2022 12:38 PM
<b>Sample Description</b>	Groundwater
<b>Location</b>	บ่อสังเกตการณ์ 2 MW-2 HD3
<b>Date Analysis Commenced</b>	Sep 16, 2022
<b>Condition of Sample</b>	Contained in two glass vials, two amber glass bottles and one plastic bottle, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
pH at 25 degree C		-	-	5.4	6.5-9.2 (I)	Based on APHA (2017), 4500-H (B)	Rayong

**Guideline** : Notification of the Ministry of Industry B.E. 2559 (2016) on Soil and Groundwater Contamination Criteria, Monitoring of Soil and Groundwater Quality, Report Submission and Report Preparation of Soil and Groundwater Quality, and Proposal Report of Soil and Groundwater Controlling and Reduction Measures

(I): ในกรณีที่มีการปนเปื้อนของกรดหรือด่างให้เปรียบเทียบผลวิเคราะห์ค่าพีเอชจากจุดเก็บตัวอย่างบ่อน้ำที่ใช้ในการติดตามตรวจสอบการปนเปื้อนกับผลวิเคราะห์จากจุดเก็บตัวอย่างบ่อน้ำที่ใช้เป็นบ่ออ้างอิงบนทิศทางการไหลของน้ำใต้ดินในพื้นที่ โดยค่าพีเอชที่เปลี่ยนแปลงจะต้องไม่เกินหนึ่งระดับ และไม่อยู่นอกช่วงค่าเกณฑ์ของโลมสูงสุดของมาตรฐานคุณภาพน้ำบาดาลที่ใช้น้ำบริโภคคือ 6.5-9.2

**Sampled By** : Wanlop Hunchainaow , Thanasoun Namakunna

Remark :

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

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.

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

**P/O** :

**Project Name** : Environmental Monitoring

**Project Location** : HDPE#2

**Lot ID: 2296691**

Date Received : Sep 15, 2022

Date Reported : Sep 23, 2022

Report Number : 2443516-2

Page 1 of 1

<b>Sample Number</b>	2296691-1
<b>Sampled Date</b>	Sep 15, 2022 12:38 PM
<b>Sample Description</b>	Groundwater
<b>Location</b>	บ่อสังเกตการณ์ 2 MW-2 HD3
<b>Date Analysis Commenced</b>	Sep 16, 2022
<b>Condition of Sample</b>	Contained in two glass vials, two amber glass bottles and one plastic bottle, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Organic Compounds</b>							
n-Hexane	mg/L	-	0.001	<0.001	11	Based on US EPA, Method 5030B and 8260D	Bangkok
<b>Petroleum Hydrocarbons</b>							
TPH C>16-C35	mg/L	-	0.05	<0.05	0.1	Based on US EPA, Method 3510C and 8015C	Bangkok
TPH C>8-C16	mg/L	-	0.05	<0.05	1.7	Based on US EPA, Method 3510C and 8015C	Bangkok
TPH C5-C8	mg/L	-	0.01	<0.01	1.4	Based on US EPA, Method 5030B and 8260D	Bangkok

**Guideline** : Notification of the Ministry of Industry B.E. 2559 (2016) on Soil and Groundwater Contamination Criteria, Monitoring of Soil and Groundwater Quality, Report Submission and Report Preparation of Soil and Groundwater Quality, and Proposal Report of Soil and Groundwater Controlling and Reduction Measures

**Sampled By** : Wanlop Hunchainaow , Thanasoun Namakunna

Remark :

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

Technical Management

*Siriluk P.*

Siriluk Puengpang  
Supervisor  
ทะเบียนเลขที่ ว-204-จ-4720

Approved by

*Kanokorn Anek*

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

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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** : HDPE#2

**Lot ID: 2296691**

Date Received : Sep 15, 2022

Date Reported : Sep 23, 2022

Report Number : 2443517-1

Page 1 of 1

<b>Sample Number</b>	2296691-2
<b>Sampled Date</b>	Sep 15, 2022 11:54 AM
<b>Sample Description</b>	Groundwater
<b>Location</b>	บ่อสังเกตการณ์ 1 MW-1 HD2
<b>Date Analysis Commenced</b>	Sep 16, 2022
<b>Condition of Sample</b>	Contained in two glass vials, two amber glass bottles and one plastic bottle, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
pH at 25 degree C		-	-	5.1	6.5-9.2 (I)	Based on APHA (2017), 4500-H (B)	Rayong

**Guideline** : Notification of the Ministry of Industry B.E. 2559 (2016) on Soil and Groundwater Contamination Criteria, Monitoring of Soil and Groundwater Quality, Report Submission and Report Preparation of Soil and Groundwater Quality, and Proposal Report of Soil and Groundwater Controlling and Reduction Measures

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**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.

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

**P/O** :

**Project Name** : Environmental Monitoring

**Project Location** : HDPE#2

**Lot ID: 2296691**

Date Received : Sep 15, 2022

Date Reported : Sep 23, 2022

Report Number : 2443517-2

Page 1 of 1

<b>Sample Number</b>	2296691-2
<b>Sampled Date</b>	Sep 15, 2022 11:54 AM
<b>Sample Description</b>	Groundwater
<b>Location</b>	บ่อสังเกตการณ์ 1 MW-1 HD2
<b>Date Analysis Commenced</b>	Sep 16, 2022
<b>Condition of Sample</b>	Contained in two glass vials, two amber glass bottles and one plastic bottle, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Organic Compounds</b>							
n-Hexane	mg/L	-	0.001	<0.001	11	Based on US EPA, Method 5030B and 8260D	Bangkok
<b>Petroleum Hydrocarbons</b>							
TPH C>16-C35	mg/L	-	0.05	<0.05	0.1	Based on US EPA, Method 3510C and 8015C	Bangkok
TPH C>8-C16	mg/L	-	0.05	<0.05	1.7	Based on US EPA, Method 3510C and 8015C	Bangkok
TPH C5-C8	mg/L	-	0.01	<0.01	1.4	Based on US EPA, Method 5030B and 8260D	Bangkok

**Guideline** : Notification of the Ministry of Industry B.E. 2559 (2016) on Soil and Groundwater Contamination Criteria, Monitoring of Soil and Groundwater Quality, Report Submission and Report Preparation of Soil and Groundwater Quality, and Proposal Report of Soil and Groundwater Controlling and Reduction Measures

**Sampled By** : Wanlop Hunchainaow , Thanasoun Namakunna

Remark :

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Technical Management

*Siriluk P.*

Siriluk Puengpang  
Supervisor  
ทะเบียนเลขที่ ว-204-จ-4720

Approved by

*Kanokorn Anek*

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

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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** : HDPE#2

**Lot ID: 2296691**  
Date Received : Sep 15, 2022  
Date Reported : Sep 23, 2022  
Report Number : 2443518-1

Page 1 of 1

Sample Number	2296691-3
Sampled Date	Sep 15, 2022 11:08 AM
Sample Description	Groundwater
Location	บ่อสังเกตการณ์ 3 MW-3 HD2
Date Analysis Commenced	Sep 16, 2022
Condition of Sample	Contained in two glass vials, two amber glass bottles and one plastic bottle, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
pH at 25 degree C		-	-	4.5	6.5-9.2 (I)	Based on APHA (2017), 4500-H (B)	Rayong

**Guideline** : Notification of the Ministry of Industry B.E. 2559 (2016) on Soil and Groundwater Contamination Criteria, Monitoring of Soil and Groundwater Quality, Report Submission and Report Preparation of Soil and Groundwater Quality, and Proposal Report of Soil and Groundwater Controlling and Reduction Measures

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**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.  
271, Sukhumvit Road, Tambol Map Ta Phut, Amphur Muang, Rayong Thailand 21150  
**P/O** :  
**Project Name** : Environmental Monitoring  
**Project Location** : HDPE#2

**Lot ID: 2296691**  
Date Received : Sep 15, 2022  
Date Reported : Sep 23, 2022  
Report Number : 2443518-2

Page 1 of 1

Sample Number	2296691-3
Sampled Date	Sep 15, 2022 11:08 AM
Sample Description	Groundwater
Location	บ่อสังเกตการณ์ 3 MW-3 HD2
Date Analysis Commenced	Sep 16, 2022
Condition of Sample	Contained in two glass vials, two amber glass bottles and one plastic bottle, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Organic Compounds</b>							
n-Hexane	mg/L	-	0.001	<0.001	11	Based on US EPA, Method 5030B and 8260D	Bangkok
<b>Petroleum Hydrocarbons</b>							
TPH C>16-C35	mg/L	-	0.05	<0.05	0.1	Based on US EPA, Method 3510C and 8015C	Bangkok
TPH C>8-C16	mg/L	-	0.05	<0.05	1.7	Based on US EPA, Method 3510C and 8015C	Bangkok
TPH C5-C8	mg/L	-	0.01	<0.01	1.4	Based on US EPA, Method 5030B and 8260D	Bangkok

**Guideline** : Notification of the Ministry of Industry B.E. 2559 (2016) on Soil and Groundwater Contamination Criteria, Monitoring of Soil and Groundwater Quality, Report Submission and Report Preparation of Soil and Groundwater Quality, and Proposal Report of Soil and Groundwater Controlling and Reduction Measures

**Sampled By** : Wanlop Hunchainaow , Thanasoun Namakunna

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Technical Management

*Siriluk P.*

Siriluk Puengpang  
Supervisor  
ทะเบียนเลขที่ ว-204-จ-4720

Approved by

*Kanokorn Anek*

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

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## Analysis / Test Report

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

**P/O** :

**Project Name** : Environmental Monitoring

**Project Location** : HDPE#2

**Lot ID: 2296691**

Date Received : Sep 15, 2022

Date Reported : Sep 23, 2022

Report Number : 2443519-1

Page 1 of 1

<b>Sample Number</b>	2296691-4
<b>Sampled Date</b>	Sep 15, 2022 10:08 AM
<b>Sample Description</b>	Groundwater
<b>Location</b>	บ่อสังเกตการณ์ 4 MW-4 HD3
<b>Date Analysis Commenced</b>	Sep 16, 2022
<b>Condition of Sample</b>	Contained in two glass vials, two amber glass bottles and one plastic bottle, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
pH at 25 degree C		-	-	4.9	6.5-9.2 (I)	Based on APHA (2017), 4500-H (B)	Rayong

**Guideline** : Notification of the Ministry of Industry B.E. 2559 (2016) on Soil and Groundwater Contamination Criteria, Monitoring of Soil and Groundwater Quality, Report Submission and Report Preparation of Soil and Groundwater Quality, and Proposal Report of Soil and Groundwater Controlling and Reduction Measures

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**Sampled By** : Wanlop Hunchainaow , Thanasoun Namakunna

Remark :

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Technical Management

*N. Banongkit*

Narumon Banchongkit  
Supervisor  
ทะเบียนเลขที่ ว-323-จ-9445

Approved by

*D. Changchon*

Dej Changchon  
Senior Manager  
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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** : HDPE#2

**Lot ID: 2296691**

Date Received : Sep 15, 2022

Date Reported : Sep 23, 2022

Report Number : 2443519-2

Page 1 of 1

<b>Sample Number</b>	2296691-4
<b>Sampled Date</b>	Sep 15, 2022 10:08 AM
<b>Sample Description</b>	Groundwater
<b>Location</b>	บ่อสังเกตการณ์ 4 MW-4 HD3
<b>Date Analysis Commenced</b>	Sep 16, 2022
<b>Condition of Sample</b>	Contained in two glass vials, two amber glass bottles and one plastic bottle, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Organic Compounds</b>							
n-Hexane	mg/L	-	0.001	<0.001	11	Based on US EPA, Method 5030B and 8260D	Bangkok
<b>Petroleum Hydrocarbons</b>							
TPH C>16-C35	mg/L	-	0.05	<0.05	0.1	Based on US EPA, Method 3510C and 8015C	Bangkok
TPH C>8-C16	mg/L	-	0.05	<0.05	1.7	Based on US EPA, Method 3510C and 8015C	Bangkok
TPH C5-C8	mg/L	-	0.01	<0.01	1.4	Based on US EPA, Method 5030B and 8260D	Bangkok

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**Sampled By** : Wanlop Hunchainaow , Thanasoun Namakunna

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Technical Management

*Siriluk P.*

Siriluk Puengpang  
Supervisor  
ทะเบียนเลขที่ ว-204-จ-4720

Approved by

*Kanokorn Anek*

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

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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** : HDPE#3

**Lot ID: 2296946**

Date Received : Sep 15, 2022

Date Reported : Sep 24, 2022

Report Number : 2445211-1

Page 1 of 1

<b>Sample Number</b>	2296946-1
<b>Sampled Date</b>	Sep 15, 2022 9:50 AM
<b>Sample Description</b>	Soil
<b>Location</b>	บ่อสังเกตรถ 4 MW4 HDPE3 30 cm
<b>Date Analysis Commenced</b>	Sep 16, 2022
<b>Condition of Sample</b>	Packed in two amber glass bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Organic Compounds</b>							
n-Hexane	mg/kg	-	0.2	<0.2	1000	Based on US EPA, Method 5035 and 8260D	Bangkok
<b>Petroleum Hydrocarbons</b>							
TPH C>16-C35	mg/kg	-	5	<5	8.0	Based on US EPA, Method 3570 and 8015B	Bangkok
TPH C>8-C16	mg/kg	-	10	<10	25	Based on US EPA, Method 3570 and 8015B	Bangkok
TPH C5-C8	mg/kg	-	5	<5	25	Based on US EPA, Method 5035 and 8260D	Bangkok

**Guideline** : Notification of the Ministry of Industry B.E. 2559 (2016) on Soil and Groundwater Contamination Criteria, Monitoring of Soil and Groundwater Quality, Report Submission and Report Preparation of Soil and Groundwater Quality, and Proposal Report of Soil and Groundwater Controlling and Reduction Measures

**Sampled By** : Thanasoun Namakunna

Remark :

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

Technical Management

*Narin Saiseng*

Narin Saiseng  
Supervisor

ทะเบียนเลขที่ ว-204-จ-4715

Approved by

*Kanokkorn Anek*

Kanokkorn Anek  
Senior Manager

ทะเบียนเลขที่ ว-204-ก-6111

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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** : HDPE#3

**Lot ID: 2296946**

Date Received : Sep 15, 2022

Date Reported : Sep 24, 2022

Report Number : 2445211-2

Page 1 of 1

<b>Sample Number</b>	2296946-1
<b>Sampled Date</b>	Sep 15, 2022 9:50 AM
<b>Sample Description</b>	Soil
<b>Location</b>	บ่อสังเกตรถ 4 MW4 HDPE3 30 cm
<b>Date Analysis Commenced</b>	Sep 16, 2022
<b>Condition of Sample</b>	Packed in two amber glass bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
---------	------	-----	-----------	--------	---------------------------	--------	------------------

<b>Soil Testing</b>							
pH aqueous phase 50% (w/v)		-	-	4.6	No Standard	Based on US EPA, Method 9045D	Bangkok

**Guideline** : Notification of the Ministry of Industry B.E. 2559 (2016) on Soil and Groundwater Contamination Criteria, Monitoring of Soil and Groundwater Quality, Report Submission and Report Preparation of Soil and Groundwater Quality, and Proposal Report of Soil and Groundwater Controlling and Reduction Measures

**Sampled By** : Thanasoun Namakunna

Remark :

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

Approved by

*Narin Saiseng*

Narin Saiseng  
Supervisor

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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** : HDPE#3

**Lot ID: 2296946**

Date Received : Sep 15, 2022

Date Reported : Sep 24, 2022

Report Number : 2445212-1

Page 1 of 1

<b>Sample Number</b>	2296946-2
<b>Sampled Date</b>	Sep 15, 2022 10:00 AM
<b>Sample Description</b>	Soil
<b>Location</b>	บ่อสังเกตรถไฟ 4 MW4 HDPE3 1.5 m
<b>Date Analysis Commenced</b>	Sep 16, 2022
<b>Condition of Sample</b>	Packed in two amber glass bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Organic Compounds</b>							
n-Hexane	mg/kg	-	0.2	<0.2	1000	Based on US EPA, Method 5035 and 8260D	Bangkok
<b>Petroleum Hydrocarbons</b>							
TPH C>16-C35	mg/kg	-	5	<5	8.0	Based on US EPA, Method 3570 and 8015B	Bangkok
TPH C>8-C16	mg/kg	-	10	<10	25	Based on US EPA, Method 3570 and 8015B	Bangkok
TPH C5-C8	mg/kg	-	5	<5	25	Based on US EPA, Method 5035 and 8260D	Bangkok

**Guideline** : Notification of the Ministry of Industry B.E. 2559 (2016) on Soil and Groundwater Contamination Criteria, Monitoring of Soil and Groundwater Quality, Report Submission and Report Preparation of Soil and Groundwater Quality, and Proposal Report of Soil and Groundwater Controlling and Reduction Measures

**Sampled By** : Thanasoun Namakunna

Remark :

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

Technical Management

*Narin Saiseng*

Narin Saiseng  
Supervisor

ทะเบียนเลขที่ ว-204-จ-4715

Approved by

*Kanokkorn Anek*

Kanokkorn Anek  
Senior Manager

ทะเบียนเลขที่ ว-204-ก-6111

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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** : HDPE#3

**Lot ID: 2296946**

Date Received : Sep 15, 2022

Date Reported : Sep 24, 2022

Report Number : 2445212-2

Page 1 of 1

<b>Sample Number</b>	2296946-2
<b>Sampled Date</b>	Sep 15, 2022 10:00 AM
<b>Sample Description</b>	Soil
<b>Location</b>	บ่อสังเกตรถไฟ 4 MW4 HDPE3 1.5 m
<b>Date Analysis Commenced</b>	Sep 16, 2022
<b>Condition of Sample</b>	Packed in two amber glass bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
---------	------	-----	-----------	--------	---------------------------	--------	------------------

<b>Soil Testing</b>							
pH aqueous phase 50% (w/v)		-	-	4.6	No Standard	Based on US EPA, Method 9045D	Bangkok

**Guideline** : Notification of the Ministry of Industry B.E. 2559 (2016) on Soil and Groundwater Contamination Criteria, Monitoring of Soil and Groundwater Quality, Report Submission and Report Preparation of Soil and Groundwater Quality, and Proposal Report of Soil and Groundwater Controlling and Reduction Measures

**Sampled By** : Thanasoun Namakunna

Remark :

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

Approved by

*Narin Saiseng*

Narin Saiseng  
Supervisor

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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** : HDPE#3

**Lot ID: 2296946**

Date Received : Sep 15, 2022

Date Reported : Sep 24, 2022

Report Number : 2445213-1

Page 1 of 1

<b>Sample Number</b>	2296946-3
<b>Sampled Date</b>	Sep 15, 2022 12:20 PM
<b>Sample Description</b>	Soil
<b>Location</b>	บ่อสังเกตรถ 2 MW2 : HDPE3 30 cm
<b>Date Analysis Commenced</b>	Sep 16, 2022
<b>Condition of Sample</b>	Packed in two amber glass bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Organic Compounds</b>							
n-Hexane	mg/kg	-	0.2	<0.2	1000	Based on US EPA, Method 5035 and 8260D	Bangkok
<b>Petroleum Hydrocarbons</b>							
TPH C>16-C35	mg/kg	-	5	<5	8.0	Based on US EPA, Method 3570 and 8015B	Bangkok
TPH C>8-C16	mg/kg	-	10	<10	25	Based on US EPA, Method 3570 and 8015B	Bangkok
TPH C5-C8	mg/kg	-	5	<5	25	Based on US EPA, Method 5035 and 8260D	Bangkok

**Guideline** : Notification of the Ministry of Industry B.E. 2559 (2016) on Soil and Groundwater Contamination Criteria, Monitoring of Soil and Groundwater Quality, Report Submission and Report Preparation of Soil and Groundwater Quality, and Proposal Report of Soil and Groundwater Controlling and Reduction Measures

**Sampled By** : Thanasoun Namakunna

Remark :

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

Technical Management

*Narin Saiseng*

Narin Saiseng  
Supervisor

ทะเบียนเลขที่ ว-204-จ-4715

Approved by

*Kanok Korn Anek*

Kanok Korn Anek  
Senior Manager

ทะเบียนเลขที่ ว-204-ก-6111

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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** : HDPE#3

**Lot ID: 2296946**

Date Received : Sep 15, 2022

Date Reported : Sep 24, 2022

Report Number : 2445213-2

Page 1 of 1

<b>Sample Number</b>	2296946-3
<b>Sampled Date</b>	Sep 15, 2022 12:20 PM
<b>Sample Description</b>	Soil
<b>Location</b>	บ่อสังเกตรถ 2 MW2 : HDPE3 30 cm
<b>Date Analysis Commenced</b>	Sep 16, 2022
<b>Condition of Sample</b>	Packed in two amber glass bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
---------	------	-----	-----------	--------	---------------------------	--------	------------------

<b>Soil Testing</b>							
pH aqueous phase 50% (w/v)		-	-	6.8	No Standard	Based on US EPA, Method 9045D	Bangkok

**Guideline** : Notification of the Ministry of Industry B.E. 2559 (2016) on Soil and Groundwater Contamination Criteria, Monitoring of Soil and Groundwater Quality, Report Submission and Report Preparation of Soil and Groundwater Quality, and Proposal Report of Soil and Groundwater Controlling and Reduction Measures

**Sampled By** : Thanasoun Namakunna

Remark :

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

Approved by

*Narin Saiseng*

Narin Saiseng  
Supervisor

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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** : HDPE#2

**Lot ID: 2296953**

Date Received : Sep 15, 2022

Date Reported : Sep 24, 2022

Report Number : 2445208-1

Page 1 of 1

<b>Sample Number</b>	2296953-1
<b>Sampled Date</b>	Sep 15, 2022 10:30 AM
<b>Sample Description</b>	Soil
<b>Location</b>	บ่อสังเกตรถ 3 MW3 HDPE2 30 cm.
<b>Date Analysis Commenced</b>	Sep 16, 2022
<b>Condition of Sample</b>	Packed in two amber glass bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Organic Compounds</b>							
n-Hexane	mg/kg	-	0.2	<0.2	1000	Based on US EPA, Method 5035 and 8260D	Bangkok
<b>Petroleum Hydrocarbons</b>							
TPH C>16-C35	mg/kg	-	5	<5	8.0	Based on US EPA, Method 3570 and 8015B	Bangkok
TPH C>8-C16	mg/kg	-	10	<10	25	Based on US EPA, Method 3570 and 8015B	Bangkok
TPH C5-C8	mg/kg	-	5	<5	25	Based on US EPA, Method 5035 and 8260D	Bangkok

**Guideline** : Notification of the Ministry of Industry B.E. 2559 (2016) on Soil and Groundwater Contamination Criteria, Monitoring of Soil and Groundwater Quality, Report Submission and Report Preparation of Soil and Groundwater Quality, and Proposal Report of Soil and Groundwater Controlling and Reduction Measures

**Sampled By** : Thanasoun Namakunna

Remark :

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

Technical Management

*Narin Saiseng*

Narin Saiseng  
Supervisor

ทะเบียนเลขที่ ว-204-จ-4715

Approved by

*Kanok Korn Anek*

Kanok Korn Anek  
Senior Manager

ทะเบียนเลขที่ ว-204-จ-6111

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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** : HDPE#2

**Lot ID: 2296953**

Date Received : Sep 15, 2022

Date Reported : Sep 24, 2022

Report Number : 2445208-2

Page 1 of 1

<b>Sample Number</b>	2296953-1
<b>Sampled Date</b>	Sep 15, 2022 10:30 AM
<b>Sample Description</b>	Soil
<b>Location</b>	บ่อสังเกตรถ 3 MW3 HDPE2 30 cm.
<b>Date Analysis Commenced</b>	Sep 16, 2022
<b>Condition of Sample</b>	Packed in two amber glass bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
---------	------	-----	-----------	--------	---------------------------	--------	------------------

<b>Soil Testing</b>							
pH aqueous phase 50% (w/v)		-	-	8.2	No Standard	Based on US EPA, Method 9045D	Bangkok

**Guideline** : Notification of the Ministry of Industry B.E. 2559 (2016) on Soil and Groundwater Contamination Criteria, Monitoring of Soil and Groundwater Quality, Report Submission and Report Preparation of Soil and Groundwater Quality, and Proposal Report of Soil and Groundwater Controlling and Reduction Measures

**Sampled By** : Thanasoun Namakunna

Remark :

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

Approved by

*Narin Saiseng*

Narin Saiseng  
Supervisor

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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** : HDPE#2

**Lot ID: 2296953**

Date Received : Sep 15, 2022

Date Reported : Sep 24, 2022

Report Number : 2445209-1

Page 1 of 1

<b>Sample Number</b>	2296953-2						
<b>Sampled Date</b>	Sep 15, 2022 10:40 AM						
<b>Sample Description</b>	Soil						
<b>Location</b>	บ่อสังเกตรถ 3 MW3 HDPE2 3 m.						
<b>Date Analysis Commenced</b>	Sep 16, 2022						
<b>Condition of Sample</b>	Packed in two amber glass bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Organic Compounds</b>							
n-Hexane	mg/kg	-	0.2	<0.2	1000	Based on US EPA, Method 5035 and 8260D	Bangkok
<b>Petroleum Hydrocarbons</b>							
TPH C>16-C35	mg/kg	-	5	<5	8.0	Based on US EPA, Method 3570 and 8015B	Bangkok
TPH C>8-C16	mg/kg	-	10	<10	25	Based on US EPA, Method 3570 and 8015B	Bangkok
TPH C5-C8	mg/kg	-	5	<5	25	Based on US EPA, Method 5035 and 8260D	Bangkok

**Guideline** : Notification of the Ministry of Industry B.E. 2559 (2016) on Soil and Groundwater Contamination Criteria, Monitoring of Soil and Groundwater Quality, Report Submission and Report Preparation of Soil and Groundwater Quality, and Proposal Report of Soil and Groundwater Controlling and Reduction Measures

**Sampled By** : Thanasoun Namakunna

Remark :

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

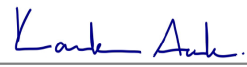
Technical Management



Narin Saiseng  
Supervisor

ทะเบียนเลขที่ ว-204-จ-4715

Approved by



Kanokkorn Anek  
Senior Manager

ทะเบียนเลขที่ ว-204-จ-6111

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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** : HDPE#2

**Lot ID: 2296953**

Date Received : Sep 15, 2022

Date Reported : Sep 24, 2022

Report Number : 2445209-2

Page 1 of 1

<b>Sample Number</b>	2296953-2						
<b>Sampled Date</b>	Sep 15, 2022 10:40 AM						
<b>Sample Description</b>	Soil						
<b>Location</b>	บ่อสังเกตรถ 3 MW3 HDPE2 3 m.						
<b>Date Analysis Commenced</b>	Sep 16, 2022						
<b>Condition of Sample</b>	Packed in two amber glass bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
---------	------	-----	-----------	--------	---------------------------	--------	------------------

<b>Soil Testing</b>							
pH aqueous phase 50% (w/v)		-	-	4.1	No Standard	Based on US EPA, Method 9045D	Bangkok

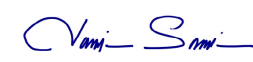
**Guideline** : Notification of the Ministry of Industry B.E. 2559 (2016) on Soil and Groundwater Contamination Criteria, Monitoring of Soil and Groundwater Quality, Report Submission and Report Preparation of Soil and Groundwater Quality, and Proposal Report of Soil and Groundwater Controlling and Reduction Measures

**Sampled By** : Thanasoun Namakunna

Remark :

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

Approved by



Narin Saiseng  
Supervisor

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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** : HDPE#2

**Lot ID: 2296953**

Date Received : Sep 15, 2022

Date Reported : Sep 24, 2022

Report Number : 2445210-1

Page 1 of 1

<b>Sample Number</b>	2296953-3
<b>Sampled Date</b>	Sep 15, 2022 11:30 AM
<b>Sample Description</b>	Soil
<b>Location</b>	บ่อสังเกตรถ 1 MW1 : HDPE2 30 cm.
<b>Date Analysis Commenced</b>	Sep 16, 2022
<b>Condition of Sample</b>	Packed in two amber glass bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Organic Compounds</b>							
n-Hexane	mg/kg	-	0.2	<0.2	1000	Based on US EPA, Method 5035 and 8260D	Bangkok
<b>Petroleum Hydrocarbons</b>							
TPH C>16-C35	mg/kg	-	5	5	8.0	Based on US EPA, Method 3570 and 8015B	Bangkok
TPH C>8-C16	mg/kg	-	10	<10	25	Based on US EPA, Method 3570 and 8015B	Bangkok
TPH C5-C8	mg/kg	-	5	<5	25	Based on US EPA, Method 5035 and 8260D	Bangkok

**Guideline** : Notification of the Ministry of Industry B.E. 2559 (2016) on Soil and Groundwater Contamination Criteria, Monitoring of Soil and Groundwater Quality, Report Submission and Report Preparation of Soil and Groundwater Quality, and Proposal Report of Soil and Groundwater Controlling and Reduction Measures

**Sampled By** : Thanasoun Namakunna

Remark :

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

Technical Management

*Narin Saiseng*

Narin Saiseng  
Supervisor

ทะเบียนเลขที่ ว-204-จ-4715

Approved by

*Kanok Korn Anek*

Kanok Korn Anek  
Senior Manager

ทะเบียนเลขที่ ว-204-จ-6111

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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** : HDPE#2

**Lot ID: 2296953**

Date Received : Sep 15, 2022

Date Reported : Sep 24, 2022

Report Number : 2445210-2

Page 1 of 1

<b>Sample Number</b>	2296953-3
<b>Sampled Date</b>	Sep 15, 2022 11:30 AM
<b>Sample Description</b>	Soil
<b>Location</b>	บ่อสังเกตรถ 1 MW1 : HDPE2 30 cm.
<b>Date Analysis Commenced</b>	Sep 16, 2022
<b>Condition of Sample</b>	Packed in two amber glass bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
---------	------	-----	-----------	--------	---------------------------	--------	------------------

<b>Soil Testing</b>							
pH aqueous phase 50% (w/v)		-	-	8.3	No Standard	Based on US EPA, Method 9045D	Bangkok

**Guideline** : Notification of the Ministry of Industry B.E. 2559 (2016) on Soil and Groundwater Contamination Criteria, Monitoring of Soil and Groundwater Quality, Report Submission and Report Preparation of Soil and Groundwater Quality, and Proposal Report of Soil and Groundwater Controlling and Reduction Measures

**Sampled By** : Thanasoun Namakunna

Remark :

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

Approved by

*Narin Saiseng*

Narin Saiseng  
Supervisor

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## Analysis / Test Report



TESTING  
No.0042

Client : Thai Polyethylene Co., Ltd.

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

P/O :

Project Name : Environmental Monitoring

Project Location : TPE Site 3

Lot ID: 22124994

Date Received : Nov 18, 2022

Date Reported : Nov 23, 2022

Report Number: 2500399-1

Page 1 of 1

Sample Number 22124994-1  
Parameter Noise (Leq 24 hrs.)  
Location โรงเรียนวัดมาบตาพุด (โศภนราษฎร์รังสรรค์) (GPS 47P 0735354, 1406705)  
Measurement Date Nov 09 - Nov 10, 2022  
Measurement by Satcha Phetsawaeng  
Sound Level meter Serial No. 296518

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
09:00 AM - 10:00 AM	63.3	88.3	53.6
10:00 AM - 11:00 AM	65.8	81.4	58.8
11:00 AM - 12:00 PM	69.3	83.7	62.4
12:00 PM - 01:00 PM	64.8	80.6	58.3
01:00 PM - 02:00 PM	63.9	85.4	57.7
02:00 PM - 03:00 PM	62.1	79.3	56.8
03:00 PM - 04:00 PM	67.3	85.2	56.5
04:00 PM - 05:00 PM	62.4	77.8	57.5
05:00 PM - 06:00 PM	67.2	85.1	56.4
06:00 PM - 07:00 PM	65.5	86.8	49.4
07:00 PM - 08:00 PM	63.2	75.3	48.5
08:00 PM - 09:00 PM	50.0	69.0	44.5
09:00 PM - 10:00 PM	49.1	67.7	43.7
10:00 PM - 11:00 PM	50.5	68.5	43.3
11:00 PM - 12:00 AM	45.2	72.3	41.5
12:00 AM - 01:00 AM	43.9	60.0	41.2
01:00 AM - 02:00 AM	44.9	61.3	41.8
02:00 AM - 03:00 AM	43.3	64.0	38.2
03:00 AM - 04:00 AM	43.4	67.0	40.3
04:00 AM - 05:00 AM	45.5	67.7	40.1
05:00 AM - 06:00 AM	50.3	73.1	45.7
06:00 AM - 07:00 AM	62.0	81.1	53.6
07:00 AM - 08:00 AM	69.0	92.3	59.6
08:00 AM - 09:00 AM	69.1	92.9	53.0

Leq Average 24 hrs. (dB(A)) 63.8  
Lmax (dB(A)) 92.9  
L90 (dB(A)) 49.4  
Ldn (dB(A)) 65.0  
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

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

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.

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

P/O :

Project Name : Environmental Monitoring

Project Location : TPE Site 3

Lot ID: 22124994

Date Received : Nov 18, 2022

Date Reported : Nov 23, 2022

Report Number: 2500400-1

Page 1 of 1

Sample Number 22124994-2  
Parameter Noise (Leq 24 hrs.)  
Location โรงเรียนวัดมาบตาพุด (โศภนราษฎร์รังสรรค์) (GPS 47P 0735354, 1406705)  
Measurement Date Nov 10 - Nov 11, 2022  
Measurement by Satcha Phetsawaeng  
Sound Level meter Serial No. 296518

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
09:00 AM - 10:00 AM	60.9	78.2	54.0
10:00 AM - 11:00 AM	67.3	85.5	63.0
11:00 AM - 12:00 PM	68.7	83.6	65.4
12:00 PM - 01:00 PM	64.1	80.3	58.5
01:00 PM - 02:00 PM	61.4	77.7	55.1
02:00 PM - 03:00 PM	68.0	80.4	63.2
03:00 PM - 04:00 PM	64.8	78.9	58.3
04:00 PM - 05:00 PM	68.2	83.7	56.0
05:00 PM - 06:00 PM	68.7	86.5	52.5
06:00 PM - 07:00 PM	67.8	80.2	63.0
07:00 PM - 08:00 PM	50.8	64.5	48.8
08:00 PM - 09:00 PM	49.9	63.2	48.0
09:00 PM - 10:00 PM	49.6	65.2	47.5
10:00 PM - 11:00 PM	49.0	67.0	47.4
11:00 PM - 12:00 AM	48.3	61.7	47.0
12:00 AM - 01:00 AM	47.6	57.6	46.6
01:00 AM - 02:00 AM	48.3	63.1	46.6
02:00 AM - 03:00 AM	48.0	59.9	46.5
03:00 AM - 04:00 AM	48.2	62.4	47.1
04:00 AM - 05:00 AM	48.8	61.6	47.3
05:00 AM - 06:00 AM	51.9	73.9	48.0
06:00 AM - 07:00 AM	63.7	79.8	54.5
07:00 AM - 08:00 AM	69.3	86.6	51.8
08:00 AM - 09:00 AM	59.0	73.8	51.2

Leq Average 24 hrs. (dB(A)) 64.0  
Lmax (dB(A)) 86.6  
L90 (dB(A)) 51.2  
Ldn (dB(A)) 65.6  
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

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

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.

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

P/O :

Project Name : Environmental Monitoring

Project Location : TPE Site 3

Lot ID: 22124994

Date Received : Nov 18, 2022

Date Reported : Nov 23, 2022

Report Number: 2500401-1

Page 1 of 1

Sample Number 22124994-3  
Parameter Noise (Leq 24 hrs.)  
Location โรงเรียนวัดมาบตาพุด (โศภนราษฎร์รังสรรค์) (GPS 47P 0735354, 1406705)  
Measurement Date Nov 11 - Nov 12, 2022  
Measurement by Satcha Phetsawaeng  
Sound Level meter Serial No. 296518

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
09:00 AM - 10:00 AM	61.1	78.4	54.2
10:00 AM - 11:00 AM	67.5	85.7	63.2
11:00 AM - 12:00 PM	68.9	83.8	65.6
12:00 PM - 01:00 PM	64.3	80.5	58.7
01:00 PM - 02:00 PM	61.6	77.9	55.3
02:00 PM - 03:00 PM	64.1	80.9	57.5
03:00 PM - 04:00 PM	63.7	83.0	57.5
04:00 PM - 05:00 PM	61.0	78.9	52.7
05:00 PM - 06:00 PM	68.9	83.4	51.1
06:00 PM - 07:00 PM	52.1	69.5	48.6
07:00 PM - 08:00 PM	50.4	63.7	48.3
08:00 PM - 09:00 PM	49.7	64.5	48.0
09:00 PM - 10:00 PM	49.4	67.2	47.5
10:00 PM - 11:00 PM	48.6	66.6	47.1
11:00 PM - 12:00 AM	48.4	66.7	47.0
12:00 AM - 01:00 AM	47.6	63.3	46.6
01:00 AM - 02:00 AM	47.7	70.2	46.5
02:00 AM - 03:00 AM	47.4	61.7	46.4
03:00 AM - 04:00 AM	47.6	65.7	46.4
04:00 AM - 05:00 AM	47.8	66.3	46.7
05:00 AM - 06:00 AM	49.0	62.4	47.3
06:00 AM - 07:00 AM	50.5	64.8	48.9
07:00 AM - 08:00 AM	51.9	73.4	48.7
08:00 AM - 09:00 AM	51.2	73.2	48.2

Leq Average 24 hrs. (dB(A)) 61.5  
Lmax (dB(A)) 85.7  
L90 (dB(A)) 48.3  
Ldn (dB(A)) 62.2  
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

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

Technical Management

Thanita K.

Thanita Kulsuriwong  
Scientist (4)

Approved by

Supt S

Supot Salamteh  
Section Head

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## Analysis / Test Report



TESTING  
No.0042

Client : Thai Polyethylene Co., Ltd.

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

P/O :

Project Name : Environmental Monitoring

Project Location : TPE Site 3

Lot ID: 22124994

Date Received : Nov 18, 2022

Date Reported : Nov 23, 2022

Report Number: 2500402-1

Page 1 of 1

Sample Number 22124994-4  
Parameter Noise (Leq 24 hrs.)  
Location โรงเรียนวัดมาบตาพุด (โศภนราษฎร์รังสรรค์) (GPS 47P 0735354, 1406705)  
Measurement Date Nov 12 - Nov 13, 2022  
Measurement by Satcha Phetsawaeng  
Sound Level meter Serial No. 296518

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
09:00 AM - 10:00 AM	51.2	78.1	46.0
10:00 AM - 11:00 AM	50.3	70.1	45.8
11:00 AM - 12:00 PM	52.9	70.2	47.3
12:00 PM - 01:00 PM	64.4	80.6	58.8
01:00 PM - 02:00 PM	61.7	78.0	55.4
02:00 PM - 03:00 PM	64.2	81.0	57.6
03:00 PM - 04:00 PM	63.8	83.1	57.6
04:00 PM - 05:00 PM	61.1	79.0	52.8
05:00 PM - 06:00 PM	69.0	83.5	51.2
06:00 PM - 07:00 PM	65.2	82.7	48.2
07:00 PM - 08:00 PM	50.4	65.6	46.6
08:00 PM - 09:00 PM	49.3	65.8	45.1
09:00 PM - 10:00 PM	56.5	73.2	50.1
10:00 PM - 11:00 PM	48.9	67.4	44.5
11:00 PM - 12:00 AM	52.2	74.9	43.4
12:00 AM - 01:00 AM	52.8	71.5	42.3
01:00 AM - 02:00 AM	49.4	72.6	39.7
02:00 AM - 03:00 AM	51.0	73.1	41.2
03:00 AM - 04:00 AM	47.0	68.9	39.2
04:00 AM - 05:00 AM	44.9	67.7	40.3
05:00 AM - 06:00 AM	47.5	67.5	42.1
06:00 AM - 07:00 AM	51.5	71.8	46.8
07:00 AM - 08:00 AM	56.6	79.1	48.2
08:00 AM - 09:00 AM	52.9	75.3	47.3

Leq Average 24 hrs. (dB(A)) 60.1  
Lmax (dB(A)) 83.5  
L90 (dB(A)) 46.6  
Ldn (dB(A)) 61.4  
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

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

Technical Management

Thanita K.

Thanita Kulsuriwong  
Scientist (4)

Approved by

Supt S

Supot Salamteh  
Section Head

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## Analysis / Test Report



TESTING  
No.0042

Client : Thai Polyethylene Co., Ltd.

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

P/O :

Project Name : Environmental Monitoring

Project Location : TPE Site 3

Lot ID: 22124994

Date Received : Nov 18, 2022

Date Reported : Nov 23, 2022

Report Number: 2500403-1

Page 1 of 1

Sample Number 22124994-5  
Parameter Noise (Leq 24 hrs.)  
Location โรงเรียนวัดมาบตาพุด (โศภนราษฎร์รังสรรค์) (GPS 47P 0735354, 1406705)  
Measurement Date Nov 13 - Nov 14, 2022  
Measurement by Satcha Phetsawaeng  
Sound Level meter Serial No. 296518

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
09:00 AM - 10:00 AM	54.7	78.7	46.4
10:00 AM - 11:00 AM	55.0	82.2	46.1
11:00 AM - 12:00 PM	61.9	78.7	48.3
12:00 PM - 01:00 PM	62.0	81.0	48.2
01:00 PM - 02:00 PM	58.0	76.5	47.1
02:00 PM - 03:00 PM	62.8	77.0	50.8
03:00 PM - 04:00 PM	64.7	82.0	50.2
04:00 PM - 05:00 PM	62.9	77.1	50.9
05:00 PM - 06:00 PM	66.5	85.4	51.3
06:00 PM - 07:00 PM	61.3	78.5	48.2
07:00 PM - 08:00 PM	51.0	73.5	46.8
08:00 PM - 09:00 PM	48.4	64.5	44.5
09:00 PM - 10:00 PM	47.4	67.3	43.6
10:00 PM - 11:00 PM	45.7	64.0	41.5
11:00 PM - 12:00 AM	44.9	63.4	41.2
12:00 AM - 01:00 AM	43.0	62.2	38.8
01:00 AM - 02:00 AM	42.5	58.9	38.6
02:00 AM - 03:00 AM	43.0	66.8	38.3
03:00 AM - 04:00 AM	52.6	63.7	38.9
04:00 AM - 05:00 AM	48.2	68.1	42.4
05:00 AM - 06:00 AM	50.6	68.8	45.1
06:00 AM - 07:00 AM	62.9	82.5	52.9
07:00 AM - 08:00 AM	63.0	82.6	53.0
08:00 AM - 09:00 AM	69.1	87.0	52.5

Leq Average 24 hrs. (dB(A)) 60.9  
Lmax (dB(A)) 87.0  
L90 (dB(A)) 46.4  
Ldn (dB(A)) 63.3  
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

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

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.

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

P/O :

Project Name : Environmental Monitoring

Project Location : TPE Site 3

Lot ID: 22124994

Date Received : Nov 18, 2022

Date Reported : Nov 23, 2022

Report Number: 2500404-1

Page 1 of 1

Sample Number 22124994-6  
Parameter Noise (Leq 24 hrs.)  
Location โรงเรียนวัดมาบตาพุด (โศภนราษฎร์รังสรรค์) (GPS 47P 0735354, 1406705)  
Measurement Date Nov 14 - Nov 15, 2022  
Measurement by Satcha Phetsawaeng  
Sound Level meter Serial No. 296518

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
09:00 AM - 10:00 AM	62.7	85.3	53.5
10:00 AM - 11:00 AM	65.9	81.5	55.1
11:00 AM - 12:00 PM	66.4	85.3	51.2
12:00 PM - 01:00 PM	61.2	78.4	48.1
01:00 PM - 02:00 PM	63.3	79.7	54.8
02:00 PM - 03:00 PM	61.6	79.3	56.2
03:00 PM - 04:00 PM	66.7	91.6	57.8
04:00 PM - 05:00 PM	66.0	88.1	58.0
05:00 PM - 06:00 PM	61.7	79.4	56.3
06:00 PM - 07:00 PM	67.5	86.6	51.4
07:00 PM - 08:00 PM	59.9	68.9	49.8
08:00 PM - 09:00 PM	55.9	65.3	48.4
09:00 PM - 10:00 PM	47.9	61.5	44.9
10:00 PM - 11:00 PM	45.2	57.5	42.0
11:00 PM - 12:00 AM	45.1	65.6	42.1
12:00 AM - 01:00 AM	44.6	66.6	40.9
01:00 AM - 02:00 AM	44.4	65.8	40.3
02:00 AM - 03:00 AM	43.9	62.5	40.1
03:00 AM - 04:00 AM	45.4	67.0	41.7
04:00 AM - 05:00 AM	46.2	73.0	41.8
05:00 AM - 06:00 AM	51.3	71.6	45.1
06:00 AM - 07:00 AM	61.6	79.6	52.6
07:00 AM - 08:00 AM	68.7	92.0	59.1
08:00 AM - 09:00 AM	68.8	92.6	52.7

Leq Average 24 hrs. (dB(A)) 63.1  
Lmax (dB(A)) 92.6  
L90 (dB(A)) 49.8  
Ldn (dB(A)) 64.3  
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

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

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.

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

P/O :

Project Name : Environmental Monitoring

Project Location : TPE Site 3

Lot ID: 22124994

Date Received : Nov 18, 2022

Date Reported : Nov 23, 2022

Report Number: 2500405-1

Page 1 of 1

Sample Number 22124994-7  
Parameter Noise (Leq 24 hrs.)  
Location โรงเรียนวัดมาตาพุด (โศภนราษฎร์รังสรรค์) (GPS 47P 0735354, 1406705)  
Measurement Date Nov 15 - Nov 16, 2022  
Measurement by Satcha Phetsawaeng  
Sound Level meter Serial No. 296518

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
09:00 AM - 10:00 AM	63.4	88.4	53.7
10:00 AM - 11:00 AM	65.9	81.5	58.9
11:00 AM - 12:00 PM	69.4	83.8	62.5
12:00 PM - 01:00 PM	64.9	80.7	58.4
01:00 PM - 02:00 PM	64.0	85.5	57.8
02:00 PM - 03:00 PM	62.2	79.4	56.9
03:00 PM - 04:00 PM	67.4	85.3	56.6
04:00 PM - 05:00 PM	62.5	77.9	57.6
05:00 PM - 06:00 PM	67.3	85.2	56.5
06:00 PM - 07:00 PM	65.6	86.9	49.5
07:00 PM - 08:00 PM	63.3	75.4	48.6
08:00 PM - 09:00 PM	49.8	68.8	44.3
09:00 PM - 10:00 PM	48.9	67.5	43.5
10:00 PM - 11:00 PM	50.3	68.3	43.1
11:00 PM - 12:00 AM	45.0	72.1	41.3
12:00 AM - 01:00 AM	43.7	59.8	41.0
01:00 AM - 02:00 AM	44.7	61.1	41.6
02:00 AM - 03:00 AM	43.1	63.8	38.0
03:00 AM - 04:00 AM	43.2	66.8	40.1
04:00 AM - 05:00 AM	45.3	67.5	39.9
05:00 AM - 06:00 AM	50.1	72.9	45.5
06:00 AM - 07:00 AM	61.8	80.9	53.4
07:00 AM - 08:00 AM	68.8	92.1	59.2
08:00 AM - 09:00 AM	68.9	92.7	52.8

Leq Average 24 hrs. (dB(A)) 63.8  
Lmax (dB(A)) 92.7  
L90 (dB(A)) 49.5  
Ldn (dB(A)) 64.9  
Standard (dB(A)) 70 115

Reference Method : ISO1996-1 and 1996-2

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

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

Technical Management

Thanita K.

Thanita Kulsuriwong  
Scientist (4)

Approved by

Suppt S.

Supot Salamteh  
Section Head

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S:\Reports\\_Air Noise.rpt ( 2:47PM)



## Analysis / Test Report



TESTING  
No.0042

Client : Thai Polyethylene Co., Ltd.

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

P/O :

Project Name : Environmental Monitoring

Project Location : TPE Site 3

Lot ID: 22124994

Date Received : Nov 18, 2022

Date Reported : Nov 23, 2022

Report Number: 2500406-1

Page 1 of 1

Sample Number 22124994-8  
Parameter Noise (Leq 24 hrs.)  
Location บ้านเมืองใหม่มาตาพุด (GPS 47P 0734649, 1406350)  
Measurement Date Nov 09 - Nov 10, 2022  
Measurement by Satcha Phetsawaeng  
Sound Level meter Serial No. 1133046

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
12:00 PM - 01:00 PM	54.3	75.0	38.9
01:00 PM - 02:00 PM	48.3	71.5	38.7
02:00 PM - 03:00 PM	55.5	68.0	45.4
03:00 PM - 04:00 PM	48.4	70.4	44.5
04:00 PM - 05:00 PM	48.1	66.6	45.6
05:00 PM - 06:00 PM	46.5	62.2	43.3
06:00 PM - 07:00 PM	45.3	57.6	43.7
07:00 PM - 08:00 PM	45.5	71.9	43.1
08:00 PM - 09:00 PM	54.6	83.2	42.2
09:00 PM - 10:00 PM	44.9	60.3	42.6
10:00 PM - 11:00 PM	43.5	57.5	41.8
11:00 PM - 12:00 AM	44.2	53.8	42.8
12:00 AM - 01:00 AM	44.8	75.7	42.7
01:00 AM - 02:00 AM	43.4	53.6	42.3
02:00 AM - 03:00 AM	43.1	60.4	41.6
03:00 AM - 04:00 AM	43.1	58.7	41.9
04:00 AM - 05:00 AM	51.0	73.8	43.5
05:00 AM - 06:00 AM	48.7	69.8	44.4
06:00 AM - 07:00 AM	49.5	72.4	45.0
07:00 AM - 08:00 AM	46.7	72.0	43.0
08:00 AM - 09:00 AM	48.3	73.0	43.5
09:00 AM - 10:00 AM	47.3	64.0	43.2
10:00 AM - 11:00 AM	50.8	80.2	39.8
11:00 AM - 12:00 PM	43.2	63.5	38.0

Leq Average 24 hrs. (dB(A)) 49.2  
Lmax (dB(A)) 83.2  
L90 (dB(A)) 42.8  
Ldn (dB(A)) 53.9  
Standard (dB(A)) 70 115

Reference Method : ISO1996-1 and 1996-2

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

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

Technical Management

Thanita K.

Thanita Kulsuriwong  
Scientist (4)

Approved by

Suppt S.

Supot Salamteh  
Section Head

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8207-81/ EMAIL

S:\Reports\\_Air Noise.rpt ( 2:47PM)





## Analysis / Test Report



TESTING  
No.0042

Client : Thai Polyethylene Co., Ltd.

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

P/O :

Project Name : Environmental Monitoring

Project Location : TPE Site 3

Lot ID: 22124994

Date Received : Nov 18, 2022

Date Reported : Nov 23, 2022

Report Number: 2500407-1

Page 1 of 1

Sample Number 22124994-9  
Parameter Noise (Leq 24 hrs.)  
Location บ้านเมืองใหม่มาตาพุด (GPS 47P 0734649, 1406350)  
Measurement Date Nov 10 - Nov 11, 2022  
Measurement by Satcha Phetsawaeng  
Sound Level meter Serial No. 1133046

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
12:00 PM - 01:00 PM	44.9	70.4	39.9
01:00 PM - 02:00 PM	47.8	62.4	43.8
02:00 PM - 03:00 PM	49.3	69.0	45.5
03:00 PM - 04:00 PM	47.7	73.3	44.4
04:00 PM - 05:00 PM	55.0	86.2	44.4
05:00 PM - 06:00 PM	50.4	78.4	44.9
06:00 PM - 07:00 PM	57.0	83.4	44.1
07:00 PM - 08:00 PM	55.1	85.2	43.1
08:00 PM - 09:00 PM	45.9	76.4	43.3
09:00 PM - 10:00 PM	44.5	62.1	43.1
10:00 PM - 11:00 PM	44.9	58.6	43.7
11:00 PM - 12:00 AM	43.8	53.7	41.7
12:00 AM - 01:00 AM	43.8	57.4	41.6
01:00 AM - 02:00 AM	42.5	52.9	41.3
02:00 AM - 03:00 AM	44.0	67.3	42.7
03:00 AM - 04:00 AM	44.8	61.3	43.4
04:00 AM - 05:00 AM	56.3	73.8	42.4
05:00 AM - 06:00 AM	51.1	76.8	43.7
06:00 AM - 07:00 AM	53.9	77.3	44.0
07:00 AM - 08:00 AM	48.5	66.7	44.6
08:00 AM - 09:00 AM	46.4	61.3	43.1
09:00 AM - 10:00 AM	47.5	64.2	42.9
10:00 AM - 11:00 AM	54.1	63.3	44.2
11:00 AM - 12:00 PM	56.0	79.8	54.2

Leq Average 24 hrs. (dB(A)) 51.4  
Lmax (dB(A)) 86.2  
L90 (dB(A)) 43.4  
Ldn (dB(A)) 57.0  
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

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

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.

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

P/O :

Project Name : Environmental Monitoring

Project Location : TPE Site 3

Lot ID: 22124994

Date Received : Nov 18, 2022

Date Reported : Nov 23, 2022

Report Number: 2500408-1

Page 1 of 1

Sample Number 22124994-10  
Parameter Noise (Leq 24 hrs.)  
Location บ้านเมืองใหม่มาตาพุด (GPS 47P 0734649, 1406350)  
Measurement Date Nov 11 - Nov 12, 2022  
Measurement by Satcha Phetsawaeng  
Sound Level meter Serial No. 1133046

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
12:00 PM - 01:00 PM	48.1	65.0	41.3
01:00 PM - 02:00 PM	47.8	80.1	44.2
02:00 PM - 03:00 PM	46.9	60.9	45.3
03:00 PM - 04:00 PM	47.0	72.2	44.3
04:00 PM - 05:00 PM	48.0	71.0	45.3
05:00 PM - 06:00 PM	50.2	71.4	45.8
06:00 PM - 07:00 PM	47.4	79.1	43.6
07:00 PM - 08:00 PM	48.5	62.3	45.9
08:00 PM - 09:00 PM	45.9	59.2	43.4
09:00 PM - 10:00 PM	45.5	60.4	42.3
10:00 PM - 11:00 PM	44.2	61.7	42.1
11:00 PM - 12:00 AM	45.0	72.8	43.1
12:00 AM - 01:00 AM	42.8	61.8	40.7
01:00 AM - 02:00 AM	42.0	73.4	39.3
02:00 AM - 03:00 AM	41.8	51.8	40.1
03:00 AM - 04:00 AM	41.4	56.6	38.9
04:00 AM - 05:00 AM	50.2	72.9	39.6
05:00 AM - 06:00 AM	48.7	76.2	43.3
06:00 AM - 07:00 AM	49.4	79.3	42.3
07:00 AM - 08:00 AM	45.6	72.8	40.0
08:00 AM - 09:00 AM	46.2	64.0	41.1
09:00 AM - 10:00 AM	50.6	70.6	42.1
10:00 AM - 11:00 AM	44.6	69.7	39.6
11:00 AM - 12:00 PM	46.7	71.2	38.9

Leq Average 24 hrs. (dB(A)) 47.2  
Lmax (dB(A)) 80.1  
L90 (dB(A)) 42.1  
Ldn (dB(A)) 53.0  
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

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

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.

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

P/O :

Project Name : Environmental Monitoring

Project Location : TPE Site 3

Lot ID: 22124994

Date Received : Nov 18, 2022

Date Reported : Nov 23, 2022

Report Number: 2500409-1

Page 1 of 1

Sample Number 22124994-11  
Parameter Noise (Leq 24 hrs.)  
Location บ้านเมืองใหม่มาตาพุด (GPS 47P 0734649, 1406350)  
Measurement Date Nov 12 - Nov 13, 2022  
Measurement by Satcha Phetsawaeng  
Sound Level meter Serial No. 1133046

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
12:00 PM - 01:00 PM	42.8	63.8	38.6
01:00 PM - 02:00 PM	43.0	60.5	39.0
02:00 PM - 03:00 PM	48.1	68.0	44.4
03:00 PM - 04:00 PM	50.4	67.8	46.9
04:00 PM - 05:00 PM	58.4	75.3	46.4
05:00 PM - 06:00 PM	48.6	61.5	46.8
06:00 PM - 07:00 PM	48.3	64.9	46.8
07:00 PM - 08:00 PM	48.4	59.9	43.9
08:00 PM - 09:00 PM	49.6	61.6	43.8
09:00 PM - 10:00 PM	48.6	59.0	44.1
10:00 PM - 11:00 PM	51.3	62.4	46.2
11:00 PM - 12:00 AM	47.9	56.7	43.7
12:00 AM - 01:00 AM	46.6	57.1	45.1
01:00 AM - 02:00 AM	44.0	56.3	42.0
02:00 AM - 03:00 AM	43.3	61.5	41.4
03:00 AM - 04:00 AM	41.2	56.2	35.9
04:00 AM - 05:00 AM	39.8	62.1	36.3
05:00 AM - 06:00 AM	42.9	62.4	38.1
06:00 AM - 07:00 AM	46.2	72.0	40.7
07:00 AM - 08:00 AM	46.5	67.9	40.5
08:00 AM - 09:00 AM	46.0	68.7	39.6
09:00 AM - 10:00 AM	43.2	66.2	38.1
10:00 AM - 11:00 AM	42.7	64.7	38.0
11:00 AM - 12:00 PM	43.6	68.6	37.1

Leq Average 24 hrs. (dB(A)) 48.7  
Lmax (dB(A)) 75.3  
L90 (dB(A)) 41.4  
Ldn (dB(A)) 53.3  
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

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

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.

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

P/O :

Project Name : Environmental Monitoring

Project Location : TPE Site 3

Lot ID: 22124994

Date Received : Nov 18, 2022

Date Reported : Nov 23, 2022

Report Number: 2500410-1

Page 1 of 1

Sample Number 22124994-12  
Parameter Noise (Leq 24 hrs.)  
Location บ้านเมืองใหม่มาตาพุด (GPS 47P 0734649, 1406350)  
Measurement Date Nov 13 - Nov 14, 2022  
Measurement by Satcha Phetsawaeng  
Sound Level meter Serial No. 1133046

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
12:00 PM - 01:00 PM	45.4	64.4	38.7
01:00 PM - 02:00 PM	42.6	61.4	38.3
02:00 PM - 03:00 PM	43.5	66.0	38.7
03:00 PM - 04:00 PM	49.5	71.1	40.3
04:00 PM - 05:00 PM	51.3	69.6	43.1
05:00 PM - 06:00 PM	61.3	74.1	46.8
06:00 PM - 07:00 PM	45.7	61.6	43.8
07:00 PM - 08:00 PM	44.4	57.8	42.6
08:00 PM - 09:00 PM	44.4	55.1	42.7
09:00 PM - 10:00 PM	43.3	59.4	41.9
10:00 PM - 11:00 PM	43.0	53.5	41.8
11:00 PM - 12:00 AM	42.8	53.9	41.6
12:00 AM - 01:00 AM	42.4	62.7	40.3
01:00 AM - 02:00 AM	40.4	55.8	38.8
02:00 AM - 03:00 AM	39.9	59.0	38.6
03:00 AM - 04:00 AM	40.7	66.4	38.1
04:00 AM - 05:00 AM	45.7	62.4	39.5
05:00 AM - 06:00 AM	43.0	63.0	39.0
06:00 AM - 07:00 AM	45.8	65.8	41.5
07:00 AM - 08:00 AM	48.2	74.8	41.4
08:00 AM - 09:00 AM	43.1	63.1	39.3
09:00 AM - 10:00 AM	45.7	66.2	39.2
10:00 AM - 11:00 AM	45.5	72.2	39.7
11:00 AM - 12:00 PM	45.3	60.0	41.6

Leq Average 24 hrs. (dB(A)) 49.5  
Lmax (dB(A)) 74.8  
L90 (dB(A)) 40.3  
Ldn (dB(A)) 52.0  
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

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

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.

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

**P/O :**

**Project Name :** Environmental Monitoring

**Project Location :** TPE Site 3

**Lot ID: 22124994**

Date Received : Nov 18, 2022

Date Reported : Nov 23, 2022

Report Number: 2500411-1

Page 1 of 1

<b>Sample Number</b>	22124994-13
<b>Parameter</b>	Noise (Leq 24 hrs.)
<b>Location</b>	บ้านเมืองใหม่มาตาพุด (GPS 47P 0734649, 1406350)
<b>Measurement Date</b>	Nov 14 - Nov 15, 2022
<b>Measurement by</b>	Satcha Phetsawaeng
<b>Sound Level meter</b>	Serial No. 1133046

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
12:00 PM - 01:00 PM	56.9	70.7	45.3
01:00 PM - 02:00 PM	48.0	72.7	44.0
02:00 PM - 03:00 PM	48.4	70.8	45.5
03:00 PM - 04:00 PM	58.4	98.0	46.2
04:00 PM - 05:00 PM	48.9	67.3	43.6
05:00 PM - 06:00 PM	51.1	76.6	42.8
06:00 PM - 07:00 PM	50.9	72.7	40.3
07:00 PM - 08:00 PM	52.4	75.4	47.5
08:00 PM - 09:00 PM	48.6	57.8	44.9
09:00 PM - 10:00 PM	43.7	60.0	40.6
10:00 PM - 11:00 PM	43.6	60.9	41.9
11:00 PM - 12:00 AM	44.0	60.1	42.8
12:00 AM - 01:00 AM	43.8	53.1	42.4
01:00 AM - 02:00 AM	43.8	54.9	41.3
02:00 AM - 03:00 AM	42.9	54.6	40.1
03:00 AM - 04:00 AM	44.1	59.9	39.7
04:00 AM - 05:00 AM	42.3	53.3	40.1
05:00 AM - 06:00 AM	44.3	69.2	38.6
06:00 AM - 07:00 AM	46.3	72.2	40.8
07:00 AM - 08:00 AM	51.4	78.3	41.4
08:00 AM - 09:00 AM	48.2	71.4	41.4
09:00 AM - 10:00 AM	42.8	65.5	38.9
10:00 AM - 11:00 AM	48.5	65.4	38.6
11:00 AM - 12:00 PM	47.4	70.1	38.3

Leq Average 24 hrs. (dB(A))	50.2		
Lmax (dB(A))		98.0	
L90 (dB(A))			41.4
Ldn (dB(A))	52.8		
Standard (dB(A))	70	115	

Reference Method : ISO1996-1 and 1996-2

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

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

Technical Management

*Thanita K.*

Thanita Kulsuriwong  
Scientist (4)

Approved by

*Supot S.*

Supot Salamteh  
Section Head

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S:\Reports\\_Air Noise.rpt ( 2:48PM)

8207-81/ EMAIL



## Analysis / Test Report



TESTING  
No.0042

**Client :** Thai Polyethylene Co., Ltd.

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

**P/O :**

**Project Name :** Environmental Monitoring

**Project Location :** TPE Site 3

**Lot ID: 22124994**

Date Received : Nov 18, 2022

Date Reported : Nov 23, 2022

Report Number: 2500412-1

Page 1 of 1

<b>Sample Number</b>	22124994-14
<b>Parameter</b>	Noise (Leq 24 hrs.)
<b>Location</b>	บ้านเมืองใหม่มาตาพุด (GPS 47P 0734649, 1406350)
<b>Measurement Date</b>	Nov 15 - Nov 16, 2022
<b>Measurement by</b>	Satcha Phetsawaeng
<b>Sound Level meter</b>	Serial No. 1133046

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
12:00 PM - 01:00 PM	48.0	64.7	44.4
01:00 PM - 02:00 PM	49.3	79.6	44.9
02:00 PM - 03:00 PM	50.3	65.5	46.6
03:00 PM - 04:00 PM	48.3	62.0	46.4
04:00 PM - 05:00 PM	48.9	67.1	47.1
05:00 PM - 06:00 PM	48.9	61.7	47.1
06:00 PM - 07:00 PM	49.0	59.8	47.5
07:00 PM - 08:00 PM	48.5	60.4	46.6
08:00 PM - 09:00 PM	46.2	57.3	43.4
09:00 PM - 10:00 PM	45.3	62.1	42.6
10:00 PM - 11:00 PM	45.5	60.7	41.8
11:00 PM - 12:00 AM	42.9	52.0	41.0
12:00 AM - 01:00 AM	41.8	51.6	40.0
01:00 AM - 02:00 AM	42.9	59.0	40.1
02:00 AM - 03:00 AM	41.7	56.3	36.4
03:00 AM - 04:00 AM	40.8	61.1	36.1
04:00 AM - 05:00 AM	40.1	55.4	37.4
05:00 AM - 06:00 AM	44.2	64.5	39.2
06:00 AM - 07:00 AM	47.6	77.0	41.1
07:00 AM - 08:00 AM	54.4	83.2	39.9
08:00 AM - 09:00 AM	44.4	67.8	39.8
09:00 AM - 10:00 AM	45.4	69.9	38.2
10:00 AM - 11:00 AM	44.9	72.0	37.8
11:00 AM - 12:00 PM	48.5	69.5	38.3

Leq Average 24 hrs. (dB(A))	47.5		
Lmax (dB(A))		83.2	
L90 (dB(A))			41.0
Ldn (dB(A))	51.3		
Standard (dB(A))	70	115	

Reference Method : ISO1996-1 and 1996-2

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

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

Technical Management

*Thanita K.*

Thanita Kulsuriwong  
Scientist (4)

Approved by

*Supot S.*

Supot Salamteh  
Section Head

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S:\Reports\\_Air Noise.rpt ( 2:48PM)



## 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 :** HDPE#2

**Lot ID: 22125005**

Date Received : Nov 04, 2022

Date Reported : Nov 08, 2022

Report Number : 2460403-1

Page 1 of 5

<b>Sample Number</b>	22125005-1
<b>Sampled Date</b>	Nov 03, 2022
<b>Sample Description</b>	Noise Dose
<b>Location</b>	HDPE 2.3 Section 5700
<b>Personal Sampling</b>	คุณวราวุฒ ปาละณี
<b>Date Analysis Commenced</b>	Nov 07, 2022

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
<b>Air Testing</b>									
Noise Dose (12 hrs.) (Calculated from Lavg)	08:00 AM - 08:00 PM	%	-	-	33.9	No Standard	MOL, Department Labour Protection and Welfare (B.E.2561)	MOL	Bangkok
Noise Dose (8 hrs.)	08:00 AM - 08:00 PM	%	-	1	31.6	No Standard	MOL, Department Labour Protection and Welfare (B.E.2561)	MOL	Bangkok
TWA (12 hrs.) (Calculated from Lavg)	08:00 AM - 08:00 PM	dB(A)	-	-	78.3	83*	MOL, Department Labour Protection and Welfare (B.E.2561)	MOL	Bangkok
TWA (8 hrs.)	08:00 AM - 08:00 PM	dB(A)	-	-	80.0	85	MOL, Department Labour Protection and Welfare (B.E.2561)	MOL	Bangkok

### Guideline :

- MOL : 1. Notification of Department Labour Protection and Welfare on the Criteria and Procedures for Measurement and Analysis of Working Conditions in relation to Heat, Light or Noise Levels, including Duration and Types of Business that must perform (B.E. 2561)  
2. Notification of Department of Labour Protection and Welfare on the Standard of Time Weighted Average (TWA) Noise Level (B.E. 2561)  
\* MOL: Recommended guideline limit for 12 working hours should not be over 83 dB(A)

**Sampled By :** Supot Salamteh

Remark :

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

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Approved by

*Wichan Choonharat*

Wichan Choonharat  
Assistant Manager

ADDRESS 104 Phatthanakan Rd., Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand | PHONE +66 0 2760 3000 | FAX +66 0 2760 3197  
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R0707-R1/ FMA11



## 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 :** HDPE#2

**Lot ID: 22125005**

Date Received : Nov 04, 2022

Date Reported : Nov 08, 2022

Report Number : 2460403-1

Page 3 of 5

<b>Sample Number</b>	22125005-3
<b>Sampled Date</b>	Nov 03, 2022
<b>Sample Description</b>	Noise Dose
<b>Location</b>	HDPE 2.3 Section 5200
<b>Personal Sampling</b>	คุณธนรัชต์ พรหมวิชัย
<b>Date Analysis Commenced</b>	Nov 07, 2022

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
<b>Air Testing</b>									
Noise Dose (12 hrs.) (Calculated from Lavg)	08:00 AM - 08:00 PM	%	-	-	40.7	No Standard	MOL, Department Labour Protection and Welfare (B.E.2561)	MOL	Bangkok
Noise Dose (8 hrs.)	08:00 AM - 08:00 PM	%	-	1	38.0	No Standard	MOL, Department Labour Protection and Welfare (B.E.2561)	MOL	Bangkok
TWA (12 hrs.) (Calculated from Lavg)	08:00 AM - 08:00 PM	dB(A)	-	-	79.1	83*	MOL, Department Labour Protection and Welfare (B.E.2561)	MOL	Bangkok
TWA (8 hrs.)	08:00 AM - 08:00 PM	dB(A)	-	-	80.8	85	MOL, Department Labour Protection and Welfare (B.E.2561)	MOL	Bangkok

### Guideline :

- MOL : 1. Notification of Department Labour Protection and Welfare on the Criteria and Procedures for Measurement and Analysis of Working Conditions in relation to Heat, Light or Noise Levels, including Duration and Types of Business that must perform (B.E. 2561)  
2. Notification of Department of Labour Protection and Welfare on the Standard of Time Weighted Average (TWA) Noise Level (B.E. 2561)  
\* MOL: Recommended guideline limit for 12 working hours should not be over 83 dB(A)

**Sampled By :** Supot Salamteh

Remark :

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

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Approved by

*Wichan Choonharat*

Wichan Choonharat  
Assistant Manager

ADDRESS 104 Phatthanakan Rd., Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand | PHONE +66 0 2760 3000 | FAX +66 0 2760 3197  
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R0707-R1/ FMA11



## 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 :** HDPE#2

**Lot ID: 22125005**

Date Received : Nov 04, 2022

Date Reported : Nov 08, 2022

Report Number : 2460403-1

Page 5 of 5

<b>Sample Number</b>	22125005-5
<b>Sampled Date</b>	Nov 03, 2022
<b>Sample Description</b>	Noise Dose
<b>Location</b>	HDPE 2.3 Section 3200
<b>Personal Sampling</b>	คุณอภิสิทธิ์ อ่างเอื้อ
<b>Date Analysis Commenced</b>	Nov 07, 2022

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
<b>Air Testing</b>									
Noise Dose (12 hrs.) (Calculated from Lavg)	08:00 AM - 08:00 PM	%	-	-	15.1	No Standard	MOL, Department Labour Protection and Welfare (B.E.2561)	MOL	Bangkok
Noise Dose (8 hrs.)	08:00 AM - 08:00 PM	%	-	1	14.4	No Standard	MOL, Department Labour Protection and Welfare (B.E.2561)	MOL	Bangkok
TWA (12 hrs.) (Calculated from Lavg)	08:00 AM - 08:00 PM	dB(A)	-	-	74.8	83*	MOL, Department Labour Protection and Welfare (B.E.2561)	MOL	Bangkok
TWA (8 hrs.)	08:00 AM - 08:00 PM	dB(A)	-	-	76.6	85	MOL, Department Labour Protection and Welfare (B.E.2561)	MOL	Bangkok

### Guideline :

- MOL : 1. Notification of Department Labour Protection and Welfare on the Criteria and Procedures for Measurement and Analysis of Working Conditions in relation to Heat, Light or Noise Levels, including Duration and Types of Business that must perform (B.E. 2561)  
2. Notification of Department of Labour Protection and Welfare on the Standard of Time Weighted Average (TWA) Noise Level (B.E. 2561)  
\* MOL: Recommended guideline limit for 12 working hours should not be over 83 dB(A)

**Sampled By :** Supot Salamteh

Remark :

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

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Approved by

*Wichan Choonharat*

Wichan Choonharat  
Assistant Manager

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

**Client :** Thai Polyethylene Co., Ltd.  
271, Sukhumvit Road, Tambol Map Ta Phut, Amphur Muang, Rayong Thailand 21150

**P/O :** 5002227377

**Project Name :** Environmental Monitoring

**Project Location :** HDPE#2

**Lot ID: 22147076**

Date Received : Dec 19, 2022

Date Reported : Dec 21, 2022

Report Number : 2512501-1

Page 1 of 2

<b>Sample Number</b>	22147076-1
<b>Sampled Date</b>	Dec 16, 2022
<b>Sample Description</b>	Noise Dose
<b>Location</b>	HDPE 2.3 Section 5400
<b>Personal Sampling</b>	คุณสรวง วรรณนา
<b>Date Analysis Commenced</b>	Dec 21, 2022

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
<b>Air Testing</b>									
Noise Dose (12 hrs.) (Calculated from Lavg)	08:00 AM - 08:00 PM	%	-	-	<1	No Standard	MOL, Department Labour Protection and Welfare (B.E.2561)	MOL	Bangkok
Noise Dose (8 hrs.)	08:00 AM - 08:00 PM	%	-	1	<1	No Standard	MOL, Department Labour Protection and Welfare (B.E.2561)	MOL	Bangkok
TWA (12 hrs.) (Calculated from Lavg)	08:00 AM - 08:00 PM	dB(A)	-	-	60.1	83*	MOL, Department Labour Protection and Welfare (B.E.2561)	MOL	Bangkok
TWA (8 hrs.)	08:00 AM - 08:00 PM	dB(A)	-	-	61.9	85	MOL, Department Labour Protection and Welfare (B.E.2561)	MOL	Bangkok

### Guideline :

- MOL : 1. Notification of Department Labour Protection and Welfare on the Criteria and Procedures for Measurement and Analysis of Working Conditions in relation to Heat, Light or Noise Levels, including Duration and Types of Business that must perform (B.E. 2561)  
2. Notification of Department of Labour Protection and Welfare on the Standard of Time Weighted Average (TWA) Noise Level (B.E. 2561)  
\* MOL: Recommended guideline limit for 12 working hours should not be over 83 dB(A)

**Sampled By :** Norranon Tathongkham

Remark :

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

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Approved by

*Wichan Choonharat*

Wichan Choonharat  
Assistant Manager

ADDRESS 104 Phatthanakan Rd., Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand | PHONE +66 0 2760 3000 | FAX +66 0 2760 3197  
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R0707-R1/ FMA11



## 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 :** HDPE#2

**Lot ID: 22153897**

Date Received : Dec 28, 2022  
Date Reported : Dec 30, 2022  
Report Number : 2529810-1

Page 3 of 3

**Sample Number** 22153897-3  
**Sampled Date** Dec 27, 2022  
**Sample Description** Noise Dose  
**Location** HDPE 2,3 Section 3400  
**Personal Sampling** คุณจิรวัฒน์ จิตธรรมโรจน์  
**Personal Sampling** คุณจิรวัฒน์ จิตธรรมโรจน์  
**Date Analysis Commenced** Dec 29, 2022

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
<b>Air Testing</b>									
Noise Dose (12 hrs.) (Calculated from Lavg)	08:00 AM - 08:00 PM	%	-	-	3.0	No Standard	MOL, Department Labour Protection and Welfare (B.E.2561)	MOL	Bangkok
Noise Dose (8 hrs.)	08:00 AM - 08:00 PM	%	-	1	2.8	No Standard	MOL, Department Labour Protection and Welfare (B.E.2561)	MOL	Bangkok
TWA (12 hrs.) (Calculated from Lavg)	08:00 AM - 08:00 PM	dB(A)	-	-	67.8	83*	MOL, Department Labour Protection and Welfare (B.E.2561)	MOL	Bangkok
TWA (8 hrs.)	08:00 AM - 08:00 PM	dB(A)	-	-	69.5	85	MOL, Department Labour Protection and Welfare (B.E.2561)	MOL	Bangkok

### Guideline :

MOL : 1. Notification of Department Labour Protection and Welfare on the Criteria and Procedures for Measurement and Analysis of Working Conditions in relation to Heat, Light or Noise Levels, including Duration and Types of Business that must perform (B.E. 2561)  
2. Notification of Department of Labour Protection and Welfare on the Standard of Time Weighted Average (TWA) Noise Level (B.E. 2561)  
\* MOL: Recommended guideline limit for 12 working hours should not be over 83 dB(A)

**Sampled By :** Supot Salamteh

### Remark :

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

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Approved by

*Wichan Choonharat*

Wichan Choonharat  
Assistant Manager

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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 : HDPE#2

Lot ID: 22124999

Date Received : Nov 04, 2022

Date Reported : Nov 08, 2022

Report Number: 2485376-1

Page 1 of 1

Sample Number 22124999-1  
Parameter Noise (Leq 12 hrs.)  
Location บริเวณ Hexane Recovery Unit  
Measurement Date Nov 03, 2022  
Measurement by Supot Salamteh

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
09:34 AM - 10:34 AM	78.4	81.9	78.2
10:34 AM - 11:34 AM	78.2	83.8	78.0
11:34 AM - 12:34 PM	78.0	83.8	77.8
12:34 PM - 01:34 PM	78.0	82.2	77.9
01:34 PM - 02:34 PM	78.3	83.6	78.1
02:34 PM - 03:34 PM	78.4	83.5	78.2
03:34 PM - 04:34 PM	78.4	83.0	78.2
04:34 PM - 05:34 PM	78.6	84.0	78.4
05:34 PM - 06:34 PM	78.8	84.5	78.6
06:34 PM - 07:34 PM	78.7	83.8	78.5
07:34 PM - 08:34 PM	78.5	84.2	78.3
08:34 PM - 09:34 PM	78.4	84.2	78.2

Leq Average 12 hrs. (dB(A))

78.4

Lmax (dB(A))

84.5

Standard (dB(A))

87

140

Reference Method : ISO1996-1 and 1996-2

Standard : ประกาศกระทรวงอุตสาหกรรม (เรื่อง มาตรฐานการคุ้มครองความปลอดภัย  
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Technical Management

Thanita K.

Thanita Kulsuriwong  
Scientist (4)

Approved by

Supot S.

Supot Salamteh  
Section Head

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## Analysis / Test Report

Client : Thai Polyethylene Co., Ltd.

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

P/O :

Project Name : Environmental Monitoring

Project Location : HDPE#2

Lot ID: 22124999

Date Received : Nov 04, 2022

Date Reported : Nov 08, 2022

Report Number: 2485377-1

Page 1 of 1

Sample Number 22124999-2  
Parameter Noise (Leq 12 hrs.)  
Location บริเวณ Pelletizer  
Measurement Date Nov 03, 2022  
Measurement by Supot Salamteh

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
09:10 AM - 10:10 AM	81.0	89.4	78.7
10:10 AM - 11:10 AM	81.0	88.7	78.8
11:10 AM - 12:10 PM	81.1	89.7	78.9
12:10 PM - 01:10 PM	81.1	88.8	78.9
01:10 PM - 02:10 PM	81.1	88.8	79.0
02:10 PM - 03:10 PM	81.4	89.2	78.9
03:10 PM - 04:10 PM	80.9	88.7	78.6
04:10 PM - 05:10 PM	81.1	89.3	79.0
05:10 PM - 06:10 PM	81.2	88.9	79.1
06:10 PM - 07:10 PM	81.2	89.1	78.8
07:10 PM - 08:10 PM	81.2	89.0	78.9
08:10 PM - 09:10 PM	81.3	89.0	79.2

Leq Average 12 hrs. (dB(A))

81.1

Lmax (dB(A))

89.7

Standard (dB(A))

87

140

Reference Method : ISO1996-1 and 1996-2

Standard : ประกาศกระทรวงอุตสาหกรรม (เรื่อง มาตรฐานการคุ้มครองความปลอดภัย  
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Technical Management

Thanita K.

Thanita Kulsuriwong  
Scientist (4)

Approved by

Supot S.

Supot Salamteh  
Section Head

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## Analysis / Test Report

**Client :** Thai Polyethylene Co., Ltd.

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

**P/O :**

**Project Name :** Environmental Monitoring

**Project Location :** HDPE#2

**Lot ID: 22124999**

Date Received : Nov 04, 2022

Date Reported : Nov 08, 2022

Report Number: 2485378-1

Page 1 of 1

<b>Sample Number</b>	22124999-3
<b>Parameter</b>	Noise (Leq 12 hrs.)
<b>Location</b>	บริเวณ Compressor
<b>Measurement Date</b>	Nov 03, 2022
<b>Measurement by</b>	Supot Salamteh

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
08:53 AM - 09:53 AM	82.8	90.3	81.4
09:53 AM - 10:53 AM	82.7	84.5	82.1
10:53 AM - 11:53 AM	82.7	85.1	82.0
11:53 AM - 12:53 PM	82.8	85.0	81.9
12:53 PM - 01:53 PM	82.8	84.8	81.3
01:53 PM - 02:53 PM	82.3	84.3	81.4
02:53 PM - 03:53 PM	83.0	85.5	81.6
03:53 PM - 04:53 PM	83.1	84.6	81.8
04:53 PM - 05:53 PM	82.7	84.5	81.8
05:53 PM - 06:53 PM	82.6	83.8	82.1
06:53 PM - 07:53 PM	82.4	84.2	81.5
07:53 PM - 08:53 PM	82.6	85.1	81.2
Leq Average 12 hrs. (dB(A))	82.7		
Lmax (dB(A))		90.3	
Standard (dB(A))	87	140	
Reference Method : ISO1996-1 and 1996-2			
Standard : ประกาศกระทรวงอุตสาหกรรม (เรื่อง มาตรการคุ้มครองความปลอดภัย ในการประกอบกิจการโรงงานเกี่ยวกับสภาวะแวดล้อมในการทำงาน พ.ศ.๒๕๔๖)			

Technical Management

*Thanita K.*

Thanita Kulsuriwong  
Scientist (4)

Approved by

*Supot S.*

Supot Salamteh  
Section Head

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## Analysis / Test Report

**Client :** Thai Polyethylene Co., Ltd.

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

**P/O :**

**Project Name :** Environmental Monitoring

**Project Location :** HDPE#2

**Lot ID: 22124999**

Date Received : Nov 04, 2022

Date Reported : Nov 08, 2022

Report Number: 2485379-1

Page 1 of 1

<b>Sample Number</b>	22124999-4
<b>Parameter</b>	Noise (Leq 12 hrs.)
<b>Location</b>	บริเวณ Reactor
<b>Measurement Date</b>	Nov 03, 2022
<b>Measurement by</b>	Supot Salamteh

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
09:19 AM - 10:19 AM	80.3	87.4	79.7
10:19 AM - 11:19 AM	80.1	85.4	79.6
11:19 AM - 12:19 PM	79.9	85.2	79.3
12:19 PM - 01:19 PM	79.8	85.3	79.2
01:19 PM - 02:19 PM	80.0	85.7	79.6
02:19 PM - 03:19 PM	80.1	85.5	79.6
03:19 PM - 04:19 PM	80.2	85.7	79.7
04:19 PM - 05:19 PM	80.5	86.0	80.0
05:19 PM - 06:19 PM	80.6	85.9	80.2
06:19 PM - 07:19 PM	80.3	86.0	79.9
07:19 PM - 08:19 PM	80.4	85.7	79.8
08:19 PM - 09:19 PM	80.3	85.8	79.8
Leq Average 12 hrs. (dB(A))	80.2		
Lmax (dB(A))		87.4	
Standard (dB(A))	87	140	
Reference Method : ISO1996-1 and 1996-2			
Standard : ประกาศกระทรวงอุตสาหกรรม (เรื่อง มาตรการคุ้มครองความปลอดภัย ในการประกอบกิจการโรงงานเกี่ยวกับสภาวะแวดล้อมในการทำงาน พ.ศ.๒๕๔๖)			

Technical Management

*Thanita K.*

Thanita Kulsuriwong  
Scientist (4)

Approved by

*Supot S.*

Supot Salamteh  
Section Head

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## Analysis / Test Report

**Client :** Thai Polyethylene Co., Ltd.  
271, Sukhumvit Road, Tambol Map Ta Phut, Amphur Muang, Rayong Thailand 21150

**P/O :**

**Project Name :** Environmental Monitoring

**Project Location :** HDPE#2

**Lot ID: 2274539**

Date Received : Aug 08, 2022

Date Reported : Aug 19, 2022

Report Number : 2346673-1

Page 1 of 3

**Sample Number** 2274539-1  
**Sampled Date** Aug 06, 2022  
**Sample Description** Air Quality  
**Location** หน่วย Hexane Recovery Unit  
**Date Analysis Commenced** Aug 10, 2022  
**Barometric Pressure** 753 mmHg  
**Atmospheric Temperature** 30.0 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
<b>Air Testing</b>									
n-Hexane	08:30 AM - 10:30 AM	ppm	-	0.03	0.47	500	NIOSH (1994), 1500	MOL	Bangkok

### Guideline :

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 :** Sittichai Kaewket

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

**P/O :**

**Project Name :** Environmental Monitoring

**Project Location :** HDPE#2

**Lot ID: 2274539**

Date Received : Aug 08, 2022

Date Reported : Aug 19, 2022

Report Number : 2346673-1

Page 2 of 3

**Sample Number** 2274539-2  
**Sampled Date** Aug 06, 2022  
**Sample Description** Air Quality  
**Location** หน่วย Preheater  
**Date Analysis Commenced** Aug 16, 2022  
**Barometric Pressure** 753 mmHg  
**Atmospheric Temperature** 30.0 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
<b>Air Testing</b>									
1-Butene	08:30 AM - 10:30 AM	ppm	-	1.0	<1.0	250	Based on ASTM, D2712-18	MOL	Bangkok
1-Hexene	08:30 AM - 10:30 AM	ppm	-	1.0	<1.0	50	Based on ASTM, D2712-18	ACGIH	Bangkok
Ethylene	08:30 AM - 10:30 AM	ppm	-	1.0	<1.0	200	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 :** Sittichai Kaewket

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

**P/O :**

**Project Name :** Environmental Monitoring

**Project Location :** HDPE#2

**Lot ID: 2274539**

Date Received : Aug 08, 2022

Date Reported : Aug 19, 2022

Report Number : 2346673-1

Page 3 of 3

<b>Sample Number</b>	2274539-3
<b>Sampled Date</b>	Aug 06, 2022
<b>Sample Description</b>	Air Quality
<b>Location</b>	บริเวณแผนกบรรจุเม็ดพลาสติก (Baqqing)
<b>Date Analysis Commenced</b>	Aug 08, 2022
<b>Barometric Pressure</b>	753 mmHg
<b>Atmospheric Temperature</b>	30.0 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
<b>Air Testing</b>									
Total Dust	08:30 AM - 10:30 AM	mg/m3	-	0.15	<0.15	15	Based on NIOSH (1994), 0500	OSHA	Rayong

**Guideline :**

OSHA : Occupational Safety and Health Administration

**Sampled By :** Sittichai Kaewket

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

**P/O :**

**Project Name :** Environmental Monitoring

**Project Location :** HDPE#2

**Lot ID: 22125001**

Date Received : Nov 04, 2022

Date Reported : Nov 16, 2022

Report Number : 2460398-1

Page 1 of 3

<b>Sample Number</b>	22125001-1
<b>Sampled Date</b>	Nov 03, 2022
<b>Sample Description</b>	Air Quality
<b>Location</b>	บริเวณ Hexane Recovery Unit
<b>Date Analysis Commenced</b>	Nov 05, 2022
<b>Condition of Sample</b>	Drawn into one sorbent tube, refrigerated
<b>Barometric Pressure</b>	757 mmHg
<b>Atmospheric Temperature</b>	32.0 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
<b>Air Testing</b>									
n-Hexane	09:00 AM - 11:00 AM	ppm	-	0.03	<0.03	500	NIOSH (1994), 1500	MOL	Bangkok

**Guideline :**

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

**Sampled By :** Supot Salamteh

Remark :

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

Approved by

Saranya Chalermtamrong  
Scientist (4)

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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 :** HDPE#2

**Lot ID: 22125001**

Date Received : Nov 04, 2022

Date Reported : Nov 16, 2022

Report Number : 2460398-1

Page 2 of 3

<b>Sample Number</b>	22125001-2
<b>Sampled Date</b>	Nov 03, 2022
<b>Sample Description</b>	Air Quality
<b>Location</b>	บริเวณ Preheater
<b>Date Analysis Commenced</b>	Nov 07, 2022
<b>Condition of Sample</b>	Drawn into two 10-L air sampling bags
<b>Barometric Pressure</b>	757 mmHg
<b>Atmospheric Temperature</b>	32.0 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
<b>Air Testing</b>									
1-Butene	09:00 AM - 11:00 AM	ppm	-	1.0	<1.0	250	Based on ASTM, D2712-18	MOL	Bangkok
1-Hexene	09:00 AM - 11:00 AM	ppm	-	1.0	<1.0	50		ACGIH	Bangkok
Ethylene	09:00 AM - 11:00 AM	ppm	-	1.0	<1.0	200	Based on ASTM, D 2712-91	ACGIH	Bangkok

**Guideline :**

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

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

**Sampled By :** Supot Salamteh

Remark :

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

Approved by

*Saranya C.*

Saranya Chalermtamrong  
Scientist (4)

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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 :** HDPE#2

**Lot ID: 22125001**

Date Received : Nov 04, 2022

Date Reported : Nov 16, 2022

Report Number : 2460398-1

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<b>Sample Number</b>	22125001-3
<b>Sampled Date</b>	Nov 03, 2022
<b>Sample Description</b>	Air Quality
<b>Location</b>	บริเวณแผนกบรรจุเม็ดพลาสติก (Baqqing)
<b>Date Analysis Commenced</b>	Nov 05, 2022
<b>Condition of Sample</b>	Drawn into one filter paper placed in plastic cassette
<b>Barometric Pressure</b>	757 mmHg
<b>Atmospheric Temperature</b>	32.0 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
<b>Air Testing</b>									
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 :** Supot Salamteh

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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