

ภาคผนวก ค

ใบรับรองผลการวิเคราะห์

ภาคผนวก ค-1

คุณภาพอากาศในบรรยากาศ



Analysis / Test Report

Client : Thai Polyethylene Co., Ltd.

88/4-5, Map Ta Phut Industrial Estate, Rayong - Highway 3191 Road, Map Ta Phut,
Mueang Rayong, Rayong Thailand 21150

P/O :

Project Name : Environmental Monitoring

Project Location : Site 7

Lot ID: 233365

Date Received : Jan 13, 2023

Date Reported : Jan 27, 2023

Report Number : 2539412-1

Page 1 of 1

Sample Number	233365-1
Sampled Date	Jan 12, 2023
Sample Description	Air Quality
Location	ชุมชนเนินพยอม (หมู่บ้านนพเขต) (GPS 47P 0736525, 1411273)
Date Analysis Commenced	Jan 14, 2023
Condition of Sample	Drawn into one 6-L Canister and one 10-L air sampling bag

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Ethylene	12/01/23 - 13/01/23	ppm	-	1.0	<1.0	No Standard	Based on ASTM, D 2712	-	Bangkok
Hexane	12/01/23 - 13/01/23	ug/m3	0.60	1.76	<1.76	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Propene (Propylene)	12/01/23 - 13/01/23	ug/m3	0.30	0.86	1.27	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong

Guideline :

PCD : Notification of the Pollution Control Department, which was published in the Royal Government Gazette Vol. 126 Special Part 13 D dated January 27, B.E. 2552 (2009).

Sampled By : Satcha Phetsawaeng

Remark :

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

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Approved by

Sararat Mongkonjirawut
Supervisor



Analysis / Test Report

Client : Thai Polyethylene Co., Ltd.

88/4-5, Map Ta Phut Industrial Estate, Rayong - Highway 3191 Road, Map Ta Phut,
Mueang Rayong, Rayong Thailand 21150

P/O :

Project Name : Environmental Monitoring

Project Location : Site 7

Lot ID: 233388

Date Received : Jan 13, 2023

Date Reported : Jan 27, 2023

Report Number : 2539446-1

Page 1 of 1

Sample Number 233388-1
Sampled Date Jan 12, 2023
Sample Description Air Quality
Location ชุมชนบ้านบ่อน (GPS 47P 0735259, 1408966)
Date Analysis Commenced Jan 14, 2023
Condition of Sample Drawn into one 6-L Canister and one 25-L air sampling bag

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Ethylene	12/01/23 - 13/01/23	ppm	-	1.0	<1.0	No Standard	Based on ASTM, D 2712	-	Bangkok
Hexane	12/01/23 - 13/01/23	ug/m3	0.60	1.76	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Propene (Propylene)	12/01/23 - 13/01/23	ug/m3	0.30	0.86	1.58	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong

Guideline :

PCD : Notification of the Pollution Control Department, which was published in the Royal Government Gazette Vol. 126 Special Part 13 D dated January 27, B.E. 2552 (2009).

Sampled By : Satcha Phetsawaeng

Remark :

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Approved by

Sararat Mongkonjirawut
Supervisor



Analysis / Test Report

Client : Thai Polyethylene Co., Ltd.

88/4-5, Map Ta Phut Industrial Estate, Rayong - Highway 3191 Road, Map Ta Phut,
Mueang Rayong, Rayong Thailand 21150

P/O : 5002196688

Project Name : Environmental Monitoring

Project Location :

Lot ID: 2312344

Date Received : Feb 03, 2023

Date Reported : Feb 17, 2023

Report Number : 2557334-1C4

Page 1 of 1

Sample Number	2312344-1
Sampled Date	Feb 02, 2023
Sample Description	Air Quality
Location	ชุมชนเนินพยอม (หมู่บ้านนพเขต) (GPS 47P 0736525, 1411273)
Date Analysis Commenced	Feb 06, 2023
Condition of Sample	Drawn into one 10-L air sampling bag and one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Ethylene	02/02/23 - 03/02/23	ppm	-	1.0	<1.0	No Standard	Based on ASTM, D 2712	-	Bangkok
Hexane	02/02/23 - 03/02/23	ug/m3	0.60	1.76	2.82	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Propene (Propylene)	02/02/23 - 03/02/23	ug/m3	0.30	0.86	12.67	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong

Guideline :

NEB : Notification of National Environment Board, B.E. 2560 (2017)

PCD : Notification of the Pollution Control Department, which was published in the Royal Government Gazette Vol. 126 Special Part 13 D dated January 27, B.E. 2552 (2009).

Sampled By : Norranon Tathongkham

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.

88/4-5, Map Ta Phut Industrial Estate, Rayong - Highway 3191 Road, Map Ta Phut,
Mueang Rayong, Rayong Thailand 21150

P/O :

Project Name : Environmental Monitoring

Project Location :

Lot ID: 2312348

Date Received : Feb 03, 2023

Date Reported : Feb 21, 2023

Report Number : 2557335-1C4

Page 1 of 1

Sample Number 2312348-1
Sampled Date Feb 02, 2023
Sample Description Air Quality
Location ชุมชนบ้านบ่อน (GPS 47P 0735259, 1408966)
Date Analysis Commenced Feb 06, 2023
Condition of Sample Drawn into one 10-L air sampling bag and one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Ethylene	02/02/23 - 03/02/23	ppm	-	1.0	<1.0	No Standard	Based on ASTM, D 2712	-	Bangkok
Hexane	02/02/23 - 03/02/23	ug/m3	0.60	1.76	3.31	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Propene (Propylene)	02/02/23 - 03/02/23	ug/m3	0.30	0.86	17.76	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong

Guideline :

NEB : Notification of National Environment Board, B.E. 2560 (2017)

PCD : Notification of the Pollution Control Department, which was published in the Royal Government Gazette Vol. 126 Special Part 13 D dated January 27, B.E. 2552 (2009).

Sampled By : Norranon Tathongkham

Remark :

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Approved by

Saranya C.

Saranya Chalermthamrong
Scientist (4)

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Analysis / Test Report

Client : Thai Polyethylene Co., Ltd.

88/4-5, Map Ta Phut Industrial Estate, Rayong - Highway 3191 Road, Map Ta Phut,
Mueang Rayong, Rayong Thailand 21150

P/O :

Project Name : Environmental Monitoring

Project Location : Site 7

Lot ID: 2332001

Date Received : Mar 24, 2023

Date Reported : Apr 06, 2023

Report Number : 2600769-1

Page 1 of 1

Sample Number 2332001-1
Sampled Date Mar 23, 2023
Sample Description Air Quality
Location ชุมชนเนินพยอม (หมู่บ้านนพเขต)
Date Analysis Commenced Mar 27, 2023
Condition of Sample Drawn into one 25-L air sampling bag and one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Ethylene	23/03/23 - 24/03/23	ppm	-	1.0	<1.0	No Standard	Based on ASTM, D 2712	-	Bangkok
Hexane	23/03/23 - 24/03/23	ug/m3	0.60	1.76	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Propene (Propylene)	23/03/23 - 24/03/23	ug/m3	0.30	0.86	1.07	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong

Guideline :

NEB : Notification of National Environment Board, B.E. 2560 (2017)

PCD : Notification of the Pollution Control Department, which was published in the Royal Government Gazette Vol. 126 Special Part 13 D dated January 27, B.E. 2552 (2009).

Sampled By : Norranon Tathongkham

Remark :

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- "<" : 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.

88/4-5, Map Ta Phut Industrial Estate, Rayong - Highway 3191 Road, Map Ta Phut,
Mueang Rayong, Rayong Thailand 21150

P/O :

Project Name : Environmental Monitoring

Project Location : Site 7

Lot ID: 2332007

Date Received : Mar 24, 2023

Date Reported : Apr 06, 2023

Report Number : 2600770-1

Page 1 of 1

Sample Number 2332007-1
Sampled Date Mar 23, 2023
Sample Description Air Quality
Location ชุมชนบ้านบน
Date Analysis Commenced Mar 27, 2023
Condition of Sample Drawn into one 25-L air sampling bag and one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Ethylene	23/03/23 - 24/03/23	ppm	-	1.0	<1.0	No Standard	Based on ASTM, D 2712	-	Bangkok
Hexane	23/03/23 - 24/03/23	ug/m3	0.60	1.76	<1.76	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Propene (Propylene)	23/03/23 - 24/03/23	ug/m3	0.30	0.86	1.96	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong

Guideline :

NEB : Notification of National Environment Board, B.E. 2560 (2017)

PCD : Notification of the Pollution Control Department, which was published in the Royal Government Gazette Vol. 126 Special Part 13 D dated January 27, B.E. 2552 (2009).

Sampled By : Norranon Tathongkham

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Approved by

Saranya C.

Saranya Chalermthamrong
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Analysis / Test Report

Client : Thai Polyethylene Co., Ltd.

88/4-5, Map Ta Phut Industrial Estate, Rayong - Highway 3191 Road, Map Ta Phut,
Mueang Rayong, Rayong Thailand 21150

P/O : 5002198146

Project Name : Environmental Monitoring

Project Location :

Lot ID: 2332397

Date Received : Apr 04, 2023

Date Reported : Apr 11, 2023

Report Number : 2602012-1C4

Page 1 of 1

Sample Number 2332397-1
Sampled Date Apr 03, 2023
Sample Description Air Quality
Location ชุมชนเนินพยอม (หมู่บ้านนพเขต) (พิกัด 47P 0736529E, 1411273N)
Date Analysis Commenced Apr 06, 2023
Condition of Sample Extracted into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Hexane	03/04/23 - 04/04/23	ug/m3	0.60	1.76	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Propene (Propylene)	03/04/23 - 04/04/23	ug/m3	0.30	0.86	<0.86	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong

Guideline :

NEB : Notification of National Environment Board, B.E. 2560 (2017)

PCD : Notification of the Pollution Control Department, which was published in the Royal Government Gazette Vol. 126 Special Part 13 D dated January 27, B.E. 2552 (2009).

Sampled By : Natthawut Duangpang

Remark :

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Approved by

Dej Changchon
Senior Manager

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Analysis / Test Report

Client : Thai Polyethylene Co., Ltd.

88/4-5, Map Ta Phut Industrial Estate, Rayong - Highway 3191 Road, Map Ta Phut,
Mueang Rayong, Rayong Thailand 21150

P/O : PMM-23-11

Project Name : Environmental Monitoring

Project Location :

Lot ID: 2332571

Date Received : Apr 06, 2023

Date Reported : Apr 20, 2023

Report Number : 2602293-1

Page 1 of 1

Sample Number 2332571-1
Sampled Date Apr 03, 2023
Sample Description Air Quality
Location ชุมชนเนินพยอม (หมู่บ้านนพเขต) (GPS 47P 0736525, 1411273)
Date Analysis Commenced Apr 07, 2023
Condition of Sample Drawn into one 25-L air sampling bag

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Method	Testing Location
Air Testing							
Ethylene	03/04/23 - 04/04/23	ppm	-	1.0	<1.0	Based on ASTM, D 2712	Bangkok

Sampled By : Anurak Tongkhajonsakda

Remark :

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Approved by

Orawan R.

Orawan Rakyong
Scientist (3)

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Analysis / Test Report

Client : Thai Polyethylene Co., Ltd.

88/4-5, Map Ta Phut Industrial Estate, Rayong - Highway 3191 Road, Map Ta Phut,
Mueang Rayong, Rayong Thailand 21150

P/O : 5002196688

Project Name : Environmental Monitoring

Project Location :

Lot ID: 2332400

Date Received : Apr 04, 2023

Date Reported : Apr 11, 2023

Report Number : 2602015-1C4

Page 1 of 1

Sample Number 2332400-1
Sampled Date Apr 03, 2023
Sample Description Air Quality
Location ชุมชนบ้านบน (พิกัด 47P 0735259E , 1408966N)
Date Analysis Commenced Apr 06, 2023
Condition of Sample Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Hexane	03/04/23 - 04/04/23	ug/m3	0.60	1.76	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Propene (Propylene)	03/04/23 - 04/04/23	ug/m3	0.30	0.86	<0.86	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong

Guideline :

NEB : Notification of National Environment Board, B.E. 2560 (2017)

PCD : Notification of the Pollution Control Department, which was published in the Royal Government Gazette Vol. 126 Special Part 13 D dated January 27, B.E. 2552 (2009).

Sampled By : Anurak Tongkhajonsakda

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Approved by

Dej Changchon
Senior Manager

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Analysis / Test Report

Client : Thai Polyethylene Co., Ltd.

88/4-5, Map Ta Phut Industrial Estate, Rayong - Highway 3191 Road, Map Ta Phut,
Mueang Rayong, Rayong Thailand 21150

P/O : PMM-23-11

Project Name : Environmental Monitoring

Project Location :

Lot ID: 2332573

Date Received : Apr 06, 2023

Date Reported : Apr 20, 2023

Report Number : 2602295-1

Page 1 of 1

Sample Number 2332573-1
Sampled Date Apr 03, 2023
Sample Description Air Quality
Location ชุมชนบ้านหนอง
Date Analysis Commenced Apr 07, 2023
Condition of Sample Drawn into one 25-L air sampling bag

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Method	Testing Location
Air Testing							
Ethylene	03/04/23 - 04/04/23	ppm	-	1.0	<1.0	Based on ASTM, D 2712	Bangkok

Sampled By : Anurak Tongkhajonsakda

Remark :

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Approved by

Orawan R.

Orawan Rakyong
Scientist (3)

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Client : Thai Polyethylene Co., Ltd.

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Mueang Rayong, Rayong Thailand 21150

P/O :

Project Name : Environmental Monitoring

Project Location : Site 7

Lot ID: 2358159

Date Received : May 30, 2023

Date Reported : Jun 02, 2023

Report Number : 2664762-1

Page 1 of 1

Sample Number 2358159-1
Sampled Date May 29, 2023
Sample Description Air Quality
Location ชุมชนเนินพยอม (หมู่บ้านนพเขต)
Date Analysis Commenced May 31, 2023
Condition of Sample Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Hexane	29/05/23 - 30/05/23	ug/m3	0.60	1.76	<1.76	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong

Guideline :

PCD : Notification of the Pollution Control Department, which was published in the Royal Government Gazette Vol. 126 Special Part 13 D dated January 27, B.E. 2552 (2009).

Sampled By : Adisak Talesoon

Remark :

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Approved by

Dej Changchon
Senior Manager

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Analysis / Test Report

Client : Thai Polyethylene Co., Ltd.

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Mueang Rayong, Rayong Thailand 21150

P/O : 5002196688

Project Name : Environmental Monitoring

Project Location :

Lot ID: 2346395

Date Received : May 03, 2023

Date Reported : Jun 02, 2023

Report Number : 2632712-1C4

Page 1 of 1

Sample Number 2346395-1
Sampled Date May 02, 2023
Sample Description Air Quality
Location ชุมชนเนินพยอม (หมู่บ้านนพเขต) (พิกัด 47P 0736529E, 1411273N)
Date Analysis Commenced May 04, 2023
Condition of Sample Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Propene (Propylene)	02/05/23 - 03/05/23	ug/m3	0.30	0.86	3.37	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong

Guideline :

NEB : Notification of National Environment Board, B.E. 2560 (2017)

PCD : Notification of the Pollution Control Department, which was published in the Royal Government Gazette Vol. 126 Special Part 13 D dated January 27, B.E. 2552 (2009).

Sampled By : Puwanart Pimpan

Remark :

- LOD : Limit of Detection
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Approved by

Narumon Banchongkit
Supervisor

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Analysis / Test Report

Client : Thai Polyethylene Co., Ltd.

88/4-5, Map Ta Phut Industrial Estate, Rayong - Highway 3191 Road, Map Ta Phut,
Mueang Rayong, Rayong Thailand 21150

P/O : PMM-23-11

Project Name : Environmental Monitoring

Project Location :

Lot ID: 2346304

Date Received : May 03, 2023

Date Reported : May 16, 2023

Report Number : 2632608-1

Page 1 of 1

Sample Number 2346304-1
Sampled Date May 02, 2023
Sample Description Air Quality
Location ชุมชนเนินพยอม (หมู่บ้านนพเขต) (GPS 47P 0736525, 1411273)
Date Analysis Commenced May 08, 2023
Condition of Sample Drawn into one 10-L air sampling bag

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Method	Testing Location
Air Testing							
Ethylene	02/05/23 - 03/05/23	ppm	-	1.0	<1.0	Based on ASTM, D 2712	Bangkok

Sampled By : Puwanart Pimpan

Remark :

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

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Approved by

Orawan R.

Orawan Rakyong
Scientist (3)

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Client : Thai Polyethylene Co., Ltd.

88/4-5, Map Ta Phut Industrial Estate, Rayong - Highway 3191 Road, Map Ta Phut,
Mueang Rayong, Rayong Thailand 21150

P/O : 5002196688

Project Name : Environmental Monitoring

Project Location :

Lot ID: 2346416

Date Received : May 03, 2023

Date Reported : May 12, 2023

Report Number : 2632713-1C4

Page 1 of 1

Sample Number 2346416-1
Sampled Date May 02, 2023
Sample Description Air Quality
Location ชุมชนบ้านบน (พิกัด 47P 0735259E , 1408966N)
Date Analysis Commenced May 04, 2023
Condition of Sample Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Hexane	02/05/23 - 03/05/23	ug/m3	0.60	1.76	3.03	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Propene (Propylene)	02/05/23 - 03/05/23	ug/m3	0.30	0.86	11.43	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong

Guideline :

NEB : Notification of National Environment Board, B.E. 2560 (2017)

PCD : Notification of the Pollution Control Department, which was published in the Royal Government Gazette Vol. 126 Special Part 13 D dated January 27, B.E. 2552 (2009).

Sampled By : Puwanart Pimpan

Remark :

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

Approved by

Narumon Banchongkit
Supervisor

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Analysis / Test Report

Client : Thai Polyethylene Co., Ltd.

88/4-5, Map Ta Phut Industrial Estate, Rayong - Highway 3191 Road, Map Ta Phut,
Mueang Rayong, Rayong Thailand 21150

P/O : PMM-23-11

Project Name : Environmental Monitoring

Project Location : Site 7

Lot ID: 2346313

Date Received : May 03, 2023

Date Reported : May 16, 2023

Report Number : 2632620-1

Page 1 of 1

Sample Number 2346313-1
Sampled Date May 02, 2023
Sample Description Air Quality
Location ชุมชนบ้านบน
Date Analysis Commenced May 08, 2023
Condition of Sample Drawn into one 10-L air sampling bag

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Method	Testing Location
Air Testing							
Ethylene	02/05/23 - 03/05/23	ppm	-	1.0	<1.0	Based on ASTM, D 2712	Bangkok

Sampled By : Puwanart Pimpan

Remark :

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

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Approved by

Orawan R.

Orawan Rakyong
Scientist (3)

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Analysis / Test Report

Client : Thai Polyethylene Co., Ltd.

88/4-5, Map Ta Phut Industrial Estate, Rayong - Highway 3191 Road, Map Ta Phut,
Mueang Rayong, Rayong Thailand 21150

P/O : PMM-23-11

Project Name : Environmental Monitoring

Project Location :

Lot ID: 2355714

Date Received : Jun 02, 2023

Date Reported : Jun 09, 2023

Report Number : 2652740-1C4

Page 1 of 1

Sample Number 2355714-1
Sampled Date Jun 01, 2023
Sample Description Air Quality
Location ชุมชนเนินพยอม (หมู่บ้านนพเขต) (พิกัด 47P 0736529E, 1411273N)
Date Analysis Commenced Jun 03, 2023
Condition of Sample Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Hexane	01/06/23 - 02/06/23	ug/m3	0.60	1.76	12.97	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Propene (Propylene)	01/06/23 - 02/06/23	ug/m3	0.30	0.86	8.23	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong

Guideline :

NEB : Notification of National Environment Board, B.E. 2560 (2017)

PCD : Notification of the Pollution Control Department, which was published in the Royal Government Gazette Vol. 126 Special Part 13 D dated January 27, B.E. 2552 (2009).

Sampled By : Anurak Tongkhajonsakda

Remark :

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

Approved by

Dej Changchon
Senior Manager

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Analysis / Test Report

Client : Thai Polyethylene Co., Ltd.

88/4-5, Map Ta Phut Industrial Estate, Rayong - Highway 3191 Road, Map Ta Phut,
Mueang Rayong, Rayong Thailand 21150

P/O : PMM-23-11

Project Name : Environmental Monitoring

Project Location : Site 7

Lot ID: 2356040

Date Received : Jun 02, 2023

Date Reported : Jun 13, 2023

Report Number : 2653816-1

Page 1 of 1

Sample Number 2356040-1
Sampled Date Jun 01, 2023
Sample Description Air Quality
Location ชุมชนเนินพยอม (หมู่บ้านนพเขต) (GPS 47P 0736525, 1411273)
Date Analysis Commenced Jun 06, 2023
Condition of Sample Drawn into one 10-L air sampling bag

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Method	Testing Location
Air Testing							
Ethylene	01/06/23 - 02/06/23	ppm	-	1.0	<1.0	Based on ASTM, D 2712	Bangkok

Sampled By : Anurak Tongkhajonsakda

Remark :

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

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Approved by

Tanyatarn Mongkonjirawut
Supervisor



Analysis / Test Report

Client : Thai Polyethylene Co., Ltd.

88/4-5, Map Ta Phut Industrial Estate, Rayong - Highway 3191 Road, Map Ta Phut,
Mueang Rayong, Rayong Thailand 21150

P/O : 5002196688

Project Name : Environmental Monitoring

Project Location :

Lot ID: 2355716

Date Received : Jun 02, 2023

Date Reported : Jun 09, 2023

Report Number : 2652745-1C4

Page 1 of 1

Sample Number 2355716-1
Sampled Date Jun 01, 2023
Sample Description Air Quality
Location ชุมชนบ้านบน (พิกัด 47P 0735259E , 1408966N)
Date Analysis Commenced Jun 03, 2023
Condition of Sample Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Hexane	01/06/23 - 02/06/23	ug/m3	0.60	1.76	<1.76	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Propene (Propylene)	01/06/23 - 02/06/23	ug/m3	0.30	0.86	17.04	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong

Guideline :

NEB : Notification of National Environment Board, B.E. 2560 (2017)

PCD : Notification of the Pollution Control Department, which was published in the Royal Government Gazette Vol. 126 Special Part 13 D dated January 27, B.E. 2552 (2009).

Sampled By : Anurak Tongkhajonsakda

Remark :

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

Approved by

Dej Changchon
Senior Manager

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Analysis / Test Report

Client : Thai Polyethylene Co., Ltd.

88/4-5, Map Ta Phut Industrial Estate, Rayong - Highway 3191 Road, Map Ta Phut,
Mueang Rayong, Rayong Thailand 21150

P/O : PMM-23-11

Project Name : Environmental Monitoring

Project Location : Site 7

Lot ID: 2356041

Date Received : Jun 02, 2023

Date Reported : Jun 13, 2023

Report Number : 2653819-1

Page 1 of 1

Sample Number 2356041-1
Sampled Date Jun 01, 2023
Sample Description Air Quality
Location ชุมชนบ้านหนอง
Date Analysis Commenced Jun 06, 2023
Condition of Sample Drawn into one 10-L air sampling bag

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Method	Testing Location
Air Testing							
Ethylene	01/06/23 - 02/06/23	ppm	-	1.0	<1.0	Based on ASTM, D 2712	Bangkok

Sampled By : Anurak Tongkhajonsakda

Remark :

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

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Approved by

Tanyatarn Mongkonjirawut
Supervisor

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Analysis / Test Report

TESTING
No.0042

Client : Thai Polyethylene Co., Ltd.

88/4-5, Map Ta Phut Industrial Estate, Rayong - Highway 3191 Road, Map Ta Phut,
Mueang Rayong, Rayong Thailand 21150

P/O : PMM-23-11

Project Name : Environmental Monitoring

Project Location : Site 7

Lot ID: 2346310

Date Received : May 23, 2023

Date Reported : May 29, 2023

Report Number: 2632613-1

Page 1 of 1

Sample Description	Air Quality
Location	ชุมชนเนินพยอม (หมู่บ้านนพเกต) (GPS 47P 0736525, 1411273)
Date Analysis Commenced	May 24, 2023
Condition of Sample	Drawn into one filter paper placed in plastic petri dish

Sample Number	Sampled Date	Total Suspended Particulate (mg/m3)	Barometric Pressure (mm Hg)	Atmospheric Temperature (°C)
2346310-1	May 16 - May 17, 2023	0.068	755	34
2346310-2	May 17 - May 18, 2023	0.052	755	32
2346310-3	May 18 - May 19, 2023	0.050	755	33
2346310-4	May 19 - May 20, 2023	0.063	755	33
2346310-5	May 20 - May 21, 2023	0.061	755	32
2346310-6	May 21 - May 22, 2023	0.064	755	34
2346310-7	May 22 - May 23, 2023	0.065	755	33
Guideline		0.33	-	-

Reference Method

Total Suspended Particulate : US EPA 40 CFR Part 50 Appendix B

Guideline : Notification of the National Environmental Board. No.24, 2004 (B.E.2547) dated September 22, 2004

Sampled By : Nontachai Uppathamp

Remark :

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

Approved by

Thanita K.

Thanita Kulsuriwong
Scientist (4)

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Analysis / Test Report

TESTING
No.0042

Client : Thai Polyethylene Co., Ltd.

88/4-5, Map Ta Phut Industrial Estate, Rayong - Highway 3191 Road, Map Ta Phut,
Mueang Rayong, Rayong Thailand 21150

P/O : PMM-23-11

Project Name : Environmental Monitoring

Project Location : Site 7

Lot ID: 2346307

Date Received : May 23, 2023

Date Reported : May 29, 2023

Report Number: 2632612-1

Page 1 of 1

Sample Description	Air Quality			
Location	ชุมชนบ้านบน (GPS 47P 0735252, 1408967)			
Date Analysis Commenced	May 24, 2023			
Condition of Sample	Drawn into one glass filter paper (8x10 inch) placed in plastic bag			
Sample Number	Sampled Date	Total Suspended Particulate (mg/m3)	Barometric Pressure (mm Hg)	Atmospheric Temperature (°C)
2346307-1	May 16 - May 17, 2023	0.064	755	34
2346307-2	May 17 - May 18, 2023	0.052	755	32
2346307-3	May 18 - May 19, 2023	0.047	755	33
2346307-4	May 19 - May 20, 2023	0.062	755	33
2346307-5	May 20 - May 21, 2023	0.062	755	32
2346307-6	May 21 - May 22, 2023	0.070	755	34
2346307-7	May 22 - May 23, 2023	0.062	755	33
Guideline		0.33	-	-

Reference Method

Total Suspended Particulate : US EPA 40 CFR Part 50 Appendix B

Guideline : Notification of the National Environmental Board. No.24, 2004 (B.E.2547) dated September 22, 2004

Sampled By : Nontachai Uppathamp

Remark :

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

Approved by

Thanita K.

Thanita Kulsuriwong
Scientist (4)

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Analysis / Test Report

Client : Thai Polyethylene Co., Ltd.

88/4-5, Map Ta Phut Industrial Estate, Rayong - Highway 3191 Road, Map Ta Phut,
Mueang Rayong, Rayong Thailand 21150

P/O : PMM-23-11

Project Name : Environmental Monitoring

Project Location : Site 7

Lot ID : 2346312

Date Received : May 23, 2023

Date Reported : May 29, 2023

Report Number : 2632619-1

Page 1 of 2

Sample Number : 2346312-1 to 7
Parameter : Wind Speed / Wind Direction
Location : ชุมชนเนินพยอม (หมู่บ้านนพเขต) (GPS 47P 0736525, 1411273)
Sampling Date : May 16 - May 23, 2023
Sampling by : Nontachai Uppathamp

Time	May 16 - May 17, 2023			May 17 - May 18, 2023			May 18 - May 19, 2023			May 19 - May 20, 2023			May 20 - May 21, 2023			May 21 - May 22, 2023			May 22 - May 23, 2023		
	WS (m/s)	WD (deg)		WS (m/s)	WD (deg)		WS (m/s)	WD (deg)		WS (m/s)	WD (deg)		WS (m/s)	WD (deg)		WS (m/s)	WD (deg)		WS (m/s)	WD (deg)	
10:00 AM - 11:00 AM	0.0	-	-	0.4	129.0	SE	0.5	131.0	SE	0.0	-	-	1.3	132.0	SE	1.2	150.0	SSE	0.6	153.0	SSE
11:00 AM - 12:00 PM	0.0	-	-	0.0	-	-	0.0	-	-	0.3	148.0	SSE	0.0	-	-	1.5	137.0	SE	0.2	-	-
12:00 PM - 01:00 PM	0.8	140.0	SE	0.0	-	-	0.0	-	-	0.0	-	-	1.2	140.0	SE	0.0	-	-	0.8	138.0	SE
01:00 PM - 02:00 PM	0.0	-	-	0.6	138.0	SE	0.0	-	-	0.9	138.0	SE	0.0	-	-	0.3	148.0	SSE	0.0	-	-
02:00 PM - 03:00 PM	0.0	-	-	0.0	-	-	0.3	10.0	N	0.0	-	-	0.0	-	-	0.5	142.0	SE	1.1	240.0	WSW
03:00 PM - 04:00 PM	0.5	10.0	N	0.0	-	-	0.0	-	-	0.4	10.0	N	0.7	151.0	SSE	0.0	-	-	1.2	228.0	SW
04:00 PM - 05:00 PM	0.8	10.0	N	1.0	10.0	N	0.3	10.0	N	0.0	-	-	0.0	-	-	0.0	-	-	0.6	10.0	N
05:00 PM - 06:00 PM	0.0	-	-	0.5	95.0	E	0.1	-	-	0.5	10.0	N	0.6	240.0	WSW	0.8	137.0	SE	0.9	182.0	S
06:00 PM - 07:00 PM	0.3	85.0	E	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-	0.3	82.0	E	0.5	241.0	WSW
07:00 PM - 08:00 PM	0.0	-	-	0.3	10.0	N	0.5	10.0	N	0.0	-	-	0.0	-	-	0.2	-	-	1.2	10.0	N
08:00 PM - 09:00 PM	0.0	-	-	0.0	-	-	1.0	10.0	N	0.0	-	-	0.5	10.0	N	0.1	-	-	1.4	144.0	SE
09:00 PM - 10:00 PM	0.0	-	-	0.0	-	-	0.0	-	-	0.5	65.0	ENE	0.0	-	-	0.6	62.0	ENE	0.2	-	-
10:00 PM - 11:00 PM	0.0	-	-	3.1	10.0	N	1.4	75.0	ENE	0.9	68.0	ENE	1.9	10.0	N	1.4	67.0	ENE	0.3	10.0	N
11:00 PM - 12:00 AM	1.5	10.0	N	0.5	92.0	E	0.9	96.0	E	0.0	-	-	0.6	10.0	N	0.6	10.0	N	0.0	-	-
12:00 AM - 01:00 AM	2.2	10.0	N	1.0	71.0	ENE	0.5	76.0	ENE	0.0	-	-	2.3	135.0	SE	0.0	-	-	0.3	123.0	ESE
01:00 AM - 02:00 AM	1.4	143.0	SE	1.0	142.0	SE	2.7	10.0	N	1.3	82.0	E	3.5	136.0	SE	0.0	-	-	0.5	145.0	SE
02:00 AM - 03:00 AM	1.6	144.0	SE	2.4	63.0	ENE	1.0	74.0	ENE	1.3	63.0	ENE	3.2	146.0	SE	0.6	146.0	SE	0.5	135.0	SE
03:00 AM - 04:00 AM	1.3	70.0	ENE	1.2	67.0	ENE	0.8	83.0	E	0.3	91.0	E	3.0	140.0	SE	0.3	132.0	SE	0.9	265.0	W
04:00 AM - 05:00 AM	0.0	-	-	1.9	10.0	N	0.5	62.0	ENE	1.0	10.0	N	0.0	-	-	1.0	139.0	SE	1.2	300.0	WNW
05:00 AM - 06:00 AM	1.4	10.0	N	1.0	84.0	E	0.4	10.0	N	1.8	10.0	N	0.3	139.0	SE	0.5	143.0	SE	0.3	279.0	W
06:00 AM - 07:00 AM	3.0	139.0	SE	0.0	-	-	1.1	134.0	SE	0.0	-	-	0.0	-	-	0.3	145.0	SE	0.2	-	-
07:00 AM - 08:00 AM	1.4	155.0	SSE	1.4	143.0	SE	0.5	125.0	SE	3.2	146.0	SE	1.2	147.0	SSE	0.0	-	-	0.3	212.0	SSW
08:00 AM - 09:00 AM	0.0	-	-	0.4	130.0	SE	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-
09:00 AM - 10:00 AM	0.0	-	-	1.3	135.0	SE	0.0	-	-	0.0	-	-	0.0	-	-	1.2	134.0	SE	0.8	123.0	ESE

Reference Method : Cup Anemometer & Anodized Aluminium Vane Method

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Approved by

Sarayuth Jittrantont
Assistant General Manager



Analysis / Test Report

Client : Thai Polyethylene Co., Ltd.

88/4-5, Map Ta Phut Industrial Estate, Rayong - Highway 3191 Road, Map Ta Phut,
Mueang Rayong, Rayong Thailand 21150

P/O : PMM-23-11

Project Name : Environmental Monitoring

Project Location : Site 7

Lot ID : 2346312

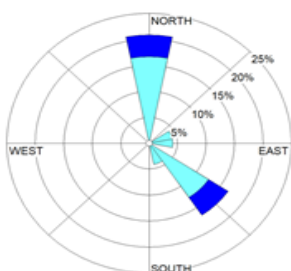
Date Received : May 23, 2023

Date Reported : May 29, 2023

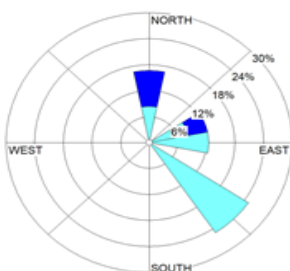
Report Number : 2632619-1

Page 2 of 2

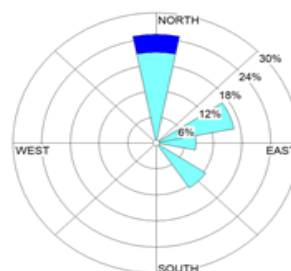
Wind Rose



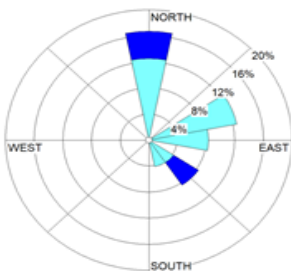
Date : May 16-17, 2023



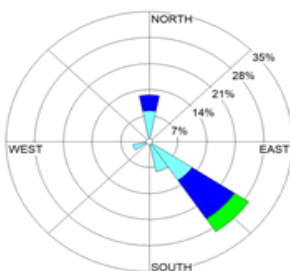
Date : May 17-18, 2023



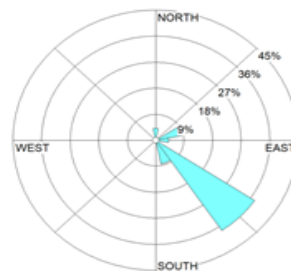
Date : May 18-19, 2023



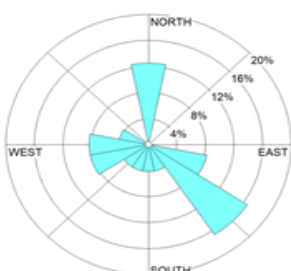
Date : May 19-20, 2023



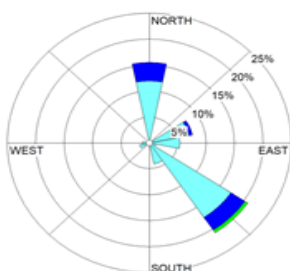
Date : May 20-21, 2023



Date : May 21-22, 2023



Date : May 22-23, 2023



Date : May 16-23, 2023

WS(m/s)	%
≥ 10.0	0.00
8.0-10.0	0.00
5.5-8.0	0.00
3.3-5.5	0.60
1.7-3.3	7.14
0.3-1.7	52.38
Calms	39.88

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Approved by

Sarayuth Jitranont
Assistant General Manager



Analysis / Test Report

Client : Thai Polyethylene Co., Ltd.

88/4-5, Map Ta Phut Industrial Estate, Rayong - Highway 3191 Road, Map Ta Phut,
Mueang Rayong, Rayong Thailand 21150

P/O : PMM-23-11

Project Name : Environmental Monitoring

Project Location : Site 7

Lot ID : 2346306

Date Received : May 23, 2023

Date Reported : May 29, 2023

Report Number : 2632615-1

Page 1 of 2

Sample Number : 2346306-1 to 7
Parameter : Wind Speed / Wind Direction
Location : ชุมชนบ้านบ่อน (GPS 47P 0735252, 1408967)
Sampling Date : May 16 - May 23, 2023
Sampling by : Nontachai Uppathamp

Time	May 16 - May 17, 2023			May 17 - May 18, 2023			May 18 - May 19, 2023			May 19 - May 20, 2023			May 20 - May 21, 2023			May 21 - May 22, 2023			May 22 - May 23, 2023		
	WS (m/s)	WD (deg)		WS (m/s)	WD (deg)		WS (m/s)	WD (deg)		WS (m/s)	WD (deg)		WS (m/s)	WD (deg)		WS (m/s)	WD (deg)		WS (m/s)	WD (deg)	
11:00 AM - 12:00 PM	0.7	86.0	E	1.8	179.0	S	0.5	128.0	SE	1.5	211.0	SSW	2.4	84.0	E	1.4	119.0	ESE	1.7	113.0	ESE
12:00 PM - 01:00 PM	3.2	121.0	ESE	3.0	131.0	SE	2.2	133.0	SE	0.8	182.0	S	2.2	127.0	SE	3.0	66.0	ENE	1.5	82.0	E
01:00 PM - 02:00 PM	2.3	39.0	NE	1.1	249.0	WSW	2.0	226.0	SW	0.4	142.0	SE	1.7	230.0	SW	1.2	125.0	SE	2.2	117.0	ESE
02:00 PM - 03:00 PM	0.6	145.0	SE	2.9	204.0	SSW	2.8	139.0	SE	0.5	174.0	S	1.0	178.0	S	3.6	97.0	E	1.3	118.0	ESE
03:00 PM - 04:00 PM	0.4	35.0	NE	3.1	107.0	ESE	2.2	189.0	S	1.5	167.0	SSE	0.9	254.0	WSW	2.5	48.0	NE	0.0	-	-
04:00 PM - 05:00 PM	1.9	144.0	SE	2.7	40.0	NE	2.3	138.0	SE	2.7	150.0	SSE	1.0	160.0	SSE	1.5	3.0	N	1.4	36.0	NE
05:00 PM - 06:00 PM	0.6	108.0	ESE	2.1	133.0	SE	2.0	151.0	SSE	0.9	142.0	SE	2.3	124.0	SE	1.7	57.0	ENE	1.3	106.0	ESE
06:00 PM - 07:00 PM	1.0	49.0	NE	0.6	39.0	NE	1.3	127.0	SE	1.7	131.0	SE	0.3	117.0	ESE	1.3	111.0	ESE	1.1	34.0	NE
07:00 PM - 08:00 PM	0.0	-	-	0.3	338.0	NNW	1.8	108.0	ESE	1.2	97.0	E	0.0	-	-	0.7	88.0	E	0.9	7.0	N
08:00 PM - 09:00 PM	0.0	-	-	0.7	98.0	E	2.9	93.0	E	1.3	124.0	SE	1.5	78.0	ENE	1.0	359.0	N	0.0	-	-
09:00 PM - 10:00 PM	0.0	-	-	0.0	-	-	0.6	122.0	ESE	0.3	111.0	ESE	0.0	-	-	1.7	356.0	N	0.7	60.0	ENE
10:00 PM - 11:00 PM	3.3	108.0	ESE	0.0	-	-	3.5	92.0	E	0.0	-	-	0.9	104.0	ESE	0.0	-	-	1.4	54.0	NE
11:00 PM - 12:00 AM	0.5	97.0	E	2.0	111.0	ESE	3.2	136.0	SE	0.3	18.0	NNE	2.3	106.0	ESE	1.5	36.0	NE	0.0	-	-
12:00 AM - 01:00 AM	3.3	131.0	SE	0.3	106.0	ESE	0.0	-	-	0.0	-	-	0.3	58.0	ENE	0.8	83.0	E	0.0	-	-
01:00 AM - 02:00 AM	0.9	221.0	SW	1.2	166.0	SSE	0.0	-	-	0.0	-	-	1.1	127.0	SE	0.4	179.0	S	0.0	-	-
02:00 AM - 03:00 AM	0.0	-	-	1.7	201.0	SSW	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-
03:00 AM - 04:00 AM	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-	2.1	123.0	ESE	0.0	-	-
04:00 AM - 05:00 AM	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-	1.2	145.0	SE	0.0	-	-
05:00 AM - 06:00 AM	0.0	-	-	0.0	-	-	0.3	274.0	W	0.0	-	-	0.0	-	-	0.0	-	-	0.3	216.0	SW
06:00 AM - 07:00 AM	0.0	-	-	0.6	156.0	SSE	0.0	-	-	0.0	-	-	0.0	-	-	0.7	194.0	SSW	0.0	-	-
07:00 AM - 08:00 AM	0.3	157.0	SSE	1.7	169.0	S	0.0	-	-	1.1	222.0	SW	0.8	146.0	SE	0.3	208.0	SSW	0.8	98.0	E
08:00 AM - 09:00 AM	0.0	-	-	1.6	162.0	SSE	0.7	218.0	SW	1.9	193.0	SSW	0.8	202.0	SSW	0.0	-	-	3.3	137.0	SE
09:00 AM - 10:00 AM	0.1	-	-	2.4	210.0	SSW	2.9	152.0	SSE	2.1	199.0	SSW	0.5	359.0	N	1.4	174.0	S	1.0	129.0	SE
10:00 AM - 11:00 AM	0.0	-	-	0.0	-	-	1.0	127.0	SE	0.9	200.0	SSW	3.2	112.0	ESE	0.5	227.0	SW	1.0	145.0	SE

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.

Approved by

Sarayuth Jittrantont
Assistant General Manager



Analysis / Test Report

Client : Thai Polyethylene Co., Ltd.

88/4-5, Map Ta Phut Industrial Estate, Rayong - Highway 3191 Road, Map Ta Phut,
Mueang Rayong, Rayong Thailand 21150

P/O : PMM-23-11

Project Name : Environmental Monitoring

Project Location : Site 7

Lot ID : 2346306

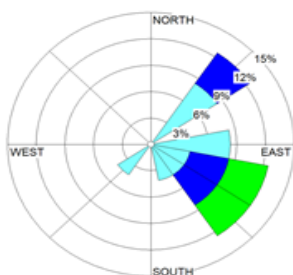
Date Received : May 23, 2023

Date Reported : May 29, 2023

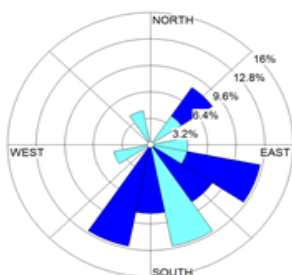
Report Number : 2632615-1

Page 2 of 2

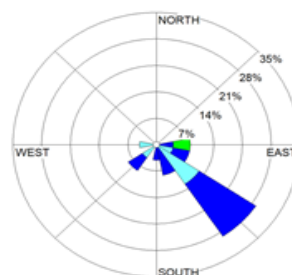
Wind Rose



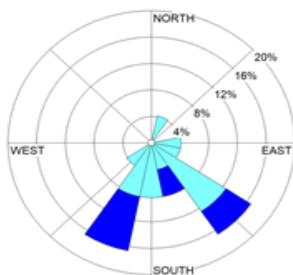
Date : May 16-17, 2023



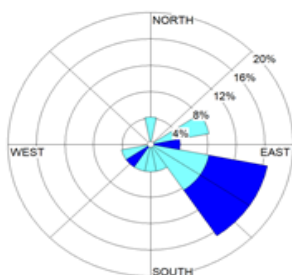
Date : May 17-18, 2023



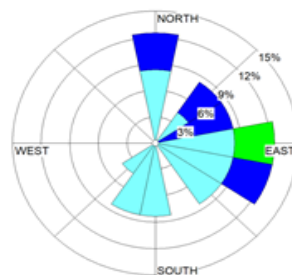
Date : May 18-19, 2023



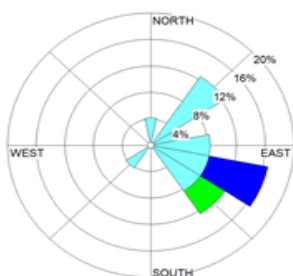
Date : May 19-20, 2023



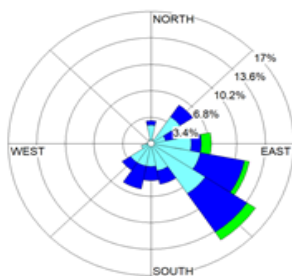
Date : May 20-21, 2023



Date : May 21-22, 2023



Date : May 22-23, 2023



Date : May 16-23, 2023

WS(m/s)	%
≥ 10.0	0.00
8.0-10.0	0.00
5.5-8.0	0.00
3.3-5.5	2.98
1.7-3.3	23.81
0.3-1.7	42.26
Calms	30.95

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Approved by

Sarayuth Jitranont
Assistant General Manager

ภาคผนวก ค-2

ระดับเสียง



Analysis / Test Report

TESTING
No.0042

Client : Thai Polyethylene Co., Ltd.

88/4-5, Map Ta Phut Industrial Estate, Rayong - Highway 3191 Road, Map Ta Phut, Mueang Rayong, Rayong Thailand 21150

P/O :

Project Name : Environmental Monitoring

Project Location : Site 7

Lot ID: 2346222

Date Received : May 23, 2023

Date Reported : May 29, 2023

Report Number: 2664230-1

Page 1 of 1

Sample Number 2346222-1
Parameter Noise (Leq 24 hrs.)
Location ชุมชนบ้านบน (GPS 47P 0735247, 1408970)
Measurement Date May 16 - May 17, 2023
Measurement by Nontachai Uppathamp
Sound Level meter Serial No. 900071

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
11:00 AM - 12:00 PM	53.1	76.7	47.7
12:00 PM - 01:00 PM	54.6	74.5	49.9
01:00 PM - 02:00 PM	55.6	71.9	49.4
02:00 PM - 03:00 PM	65.3	74.4	49.2
03:00 PM - 04:00 PM	68.3	75.3	50.4
04:00 PM - 05:00 PM	63.3	74.2	50.9
05:00 PM - 06:00 PM	55.1	76.2	49.9
06:00 PM - 07:00 PM	64.8	77.3	50.9
07:00 PM - 08:00 PM	66.2	77.7	55.9
08:00 PM - 09:00 PM	56.6	70.4	55.4
09:00 PM - 10:00 PM	56.7	72.9	55.3
10:00 PM - 11:00 PM	62.4	71.4	53.7
11:00 PM - 12:00 AM	56.0	75.3	54.7
12:00 AM - 01:00 AM	55.5	70.4	54.2
01:00 AM - 02:00 AM	54.8	59.7	53.4
02:00 AM - 03:00 AM	54.3	71.1	52.9
03:00 AM - 04:00 AM	53.5	71.0	51.0
04:00 AM - 05:00 AM	52.5	62.2	49.9
05:00 AM - 06:00 AM	66.8	76.7	49.4
06:00 AM - 07:00 AM	54.6	76.6	50.5
07:00 AM - 08:00 AM	55.3	73.8	51.0
08:00 AM - 09:00 AM	53.8	68.8	50.7
09:00 AM - 10:00 AM	54.1	69.1	51.0
10:00 AM - 11:00 AM	68.2	80.3	48.7

Leq Average 24 hrs. (dB(A)) 61.9
Lmax (dB(A)) 80.3
L90 (dB(A)) 50.9
Ldn (dB(A)) 66.8
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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Analysis / Test Report



TESTING
No.0042

Client : Thai Polyethylene Co., Ltd.

88/4-5, Map Ta Phut Industrial Estate, Rayong - Highway 3191 Road, Map Ta Phut, Mueang
Rayong, Rayong Thailand 21150

P/O :

Project Name : Environmental Monitoring

Project Location : Site 7

Lot ID: 2346222

Date Received : May 23, 2023

Date Reported : May 29, 2023

Report Number: 2664231-1

Page 1 of 1

Sample Number 2346222-2
Parameter Noise (Leq 24 hrs.)
Location ชุมชนบ้านบน (GPS 47P 0735247, 1408970)
Measurement Date May 17 - May 18, 2023
Measurement by Nontachai Uppathamp
Sound Level meter Serial No. 900071

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
11:00 AM - 12:00 PM	67.3	83.2	49.9
12:00 PM - 01:00 PM	53.0	72.1	48.6
01:00 PM - 02:00 PM	52.6	71.3	48.5
02:00 PM - 03:00 PM	51.5	67.9	49.0
03:00 PM - 04:00 PM	68.4	77.4	50.5
04:00 PM - 05:00 PM	52.0	70.3	49.0
05:00 PM - 06:00 PM	53.0	70.9	49.3
06:00 PM - 07:00 PM	54.3	74.7	49.8
07:00 PM - 08:00 PM	69.8	78.5	51.4
08:00 PM - 09:00 PM	54.9	70.0	51.2
09:00 PM - 10:00 PM	53.7	72.3	51.2
10:00 PM - 11:00 PM	62.3	77.4	50.6
11:00 PM - 12:00 AM	54.8	69.1	50.3
12:00 AM - 01:00 AM	51.5	67.2	49.5
01:00 AM - 02:00 AM	64.9	74.0	50.1
02:00 AM - 03:00 AM	54.8	65.3	49.4
03:00 AM - 04:00 AM	51.7	62.0	49.1
04:00 AM - 05:00 AM	52.1	71.3	48.6
05:00 AM - 06:00 AM	52.1	63.3	48.6
06:00 AM - 07:00 AM	69.7	83.7	50.4
07:00 AM - 08:00 AM	54.2	70.5	51.1
08:00 AM - 09:00 AM	54.1	73.5	50.4
09:00 AM - 10:00 AM	54.8	82.1	45.4
10:00 AM - 11:00 AM	69.5	79.8	48.8

Leq Average 24 hrs. (dB(A)) 63.1
Lmax (dB(A)) 83.7
L90 (dB(A)) 49.5
Ldn (dB(A)) 68.9
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

Supot S.

Supot Salamteh
Section Head

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Analysis / Test Report

TESTING
No.0042

Client : Thai Polyethylene Co., Ltd.

88/4-5, Map Ta Phut Industrial Estate, Rayong - Highway 3191 Road, Map Ta Phut, Mueang
Rayong, Rayong Thailand 21150

P/O :

Project Name : Environmental Monitoring

Project Location : Site 7

Lot ID: 2346222

Date Received : May 23, 2023

Date Reported : May 29, 2023

Report Number: 2664232-1

Page 1 of 1

Sample Number 2346222-3
Parameter Noise (Leq 24 hrs.)
Location ชุมชนบ้านบน (GPS 47P 0735247, 1408970)
Measurement Date May 18 - May 19, 2023
Measurement by Nontachai Uppathamp
Sound Level meter Serial No. 900071

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
11:00 AM - 12:00 PM	69.8	85.9	47.9
12:00 PM - 01:00 PM	52.7	74.9	48.9
01:00 PM - 02:00 PM	52.1	69.1	48.7
02:00 PM - 03:00 PM	53.7	75.0	50.5
03:00 PM - 04:00 PM	54.5	79.6	50.7
04:00 PM - 05:00 PM	53.1	74.3	48.5
05:00 PM - 06:00 PM	53.9	75.2	49.8
06:00 PM - 07:00 PM	54.5	77.3	51.2
07:00 PM - 08:00 PM	69.0	78.7	48.5
08:00 PM - 09:00 PM	56.7	84.3	51.5
09:00 PM - 10:00 PM	52.7	68.8	50.4
10:00 PM - 11:00 PM	64.8	74.6	48.2
11:00 PM - 12:00 AM	61.0	73.3	48.4
12:00 AM - 01:00 AM	51.1	70.1	48.8
01:00 AM - 02:00 AM	50.3	60.3	48.5
02:00 AM - 03:00 AM	51.6	64.0	49.9
03:00 AM - 04:00 AM	51.7	70.5	50.0
04:00 AM - 05:00 AM	52.1	70.3	50.4
05:00 AM - 06:00 AM	52.0	65.4	50.0
06:00 AM - 07:00 AM	69.8	80.5	51.8
07:00 AM - 08:00 AM	54.5	72.4	50.5
08:00 AM - 09:00 AM	54.5	75.0	50.3
09:00 AM - 10:00 AM	53.3	72.3	46.1
10:00 AM - 11:00 AM	52.4	71.2	49.0

Leq Average 24 hrs. (dB(A)) 61.7
Lmax (dB(A)) 85.9
L90 (dB(A)) 49.8
Ldn (dB(A)) 68.4
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

Supot S.

Supot Salamteh
Section Head

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Analysis / Test Report

TESTING
No.0042

Client : Thai Polyethylene Co., Ltd.

88/4-5, Map Ta Phut Industrial Estate, Rayong - Highway 3191 Road, Map Ta Phut, Mueang
Rayong, Rayong Thailand 21150

P/O :

Project Name : Environmental Monitoring

Project Location : Site 7

Lot ID: 2346222

Date Received : May 23, 2023

Date Reported : May 29, 2023

Report Number: 2664233-1

Page 1 of 1

Sample Number 2346222-4
Parameter Noise (Leq 24 hrs.)
Location ชุมชนบ้านบน (GPS 47P 0735247, 1408970)
Measurement Date May 19 - May 20, 2023
Measurement by Nontachai Uppathamp
Sound Level meter Serial No. 900071

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
11:00 AM - 12:00 PM	57.7	74.9	49.0
12:00 PM - 01:00 PM	67.5	75.6	48.1
01:00 PM - 02:00 PM	52.2	70.8	47.7
02:00 PM - 03:00 PM	51.9	71.3	48.4
03:00 PM - 04:00 PM	52.2	72.7	47.6
04:00 PM - 05:00 PM	67.8	75.5	48.9
05:00 PM - 06:00 PM	54.0	75.4	49.6
06:00 PM - 07:00 PM	57.5	82.8	50.2
07:00 PM - 08:00 PM	69.3	80.1	48.9
08:00 PM - 09:00 PM	54.4	67.3	51.8
09:00 PM - 10:00 PM	52.4	69.6	47.9
10:00 PM - 11:00 PM	50.8	69.9	47.5
11:00 PM - 12:00 AM	65.8	75.2	47.6
12:00 AM - 01:00 AM	51.4	71.4	47.7
01:00 AM - 02:00 AM	50.2	63.2	47.4
02:00 AM - 03:00 AM	50.9	58.3	49.0
03:00 AM - 04:00 AM	51.3	63.9	49.5
04:00 AM - 05:00 AM	51.2	70.0	48.3
05:00 AM - 06:00 AM	51.9	63.6	49.8
06:00 AM - 07:00 AM	68.3	77.2	52.7
07:00 AM - 08:00 AM	56.3	83.2	48.9
08:00 AM - 09:00 AM	52.9	75.3	48.6
09:00 AM - 10:00 AM	52.1	67.7	47.9
10:00 AM - 11:00 AM	61.6	73.1	49.9

Leq Average 24 hrs. (dB(A)) 61.8
Lmax (dB(A)) 83.2
L90 (dB(A)) 48.6
Ldn (dB(A)) 67.6
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.

88/4-5, Map Ta Phut Industrial Estate, Rayong - Highway 3191 Road, Map Ta Phut, Mueang
Rayong, Rayong Thailand 21150

P/O :

Project Name : Environmental Monitoring

Project Location : Site 7

Lot ID: 2346222

Date Received : May 23, 2023

Date Reported : May 29, 2023

Report Number: 2664234-1

Page 1 of 1

Sample Number 2346222-5
Parameter Noise (Leq 24 hrs.)
Location ชุมชนบ้านบน (GPS 47P 0735247, 1408970)
Measurement Date May 20 - May 21, 2023
Measurement by Nontachai Uppathamp
Sound Level meter Serial No. 900071

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
11:00 AM - 12:00 PM	56.6	69.9	49.2
12:00 PM - 01:00 PM	52.6	71.2	48.7
01:00 PM - 02:00 PM	62.8	72.8	49.8
02:00 PM - 03:00 PM	52.2	69.5	49.4
03:00 PM - 04:00 PM	51.8	70.2	48.5
04:00 PM - 05:00 PM	60.6	73.9	49.9
05:00 PM - 06:00 PM	61.1	74.1	50.3
06:00 PM - 07:00 PM	54.0	73.7	49.8
07:00 PM - 08:00 PM	68.3	77.6	50.8
08:00 PM - 09:00 PM	54.4	71.8	49.8
09:00 PM - 10:00 PM	51.1	70.9	47.9
10:00 PM - 11:00 PM	52.2	67.4	47.9
11:00 PM - 12:00 AM	60.7	71.6	47.4
12:00 AM - 01:00 AM	48.8	62.0	46.8
01:00 AM - 02:00 AM	59.2	69.1	46.7
02:00 AM - 03:00 AM	55.5	68.3	46.7
03:00 AM - 04:00 AM	49.0	61.7	46.8
04:00 AM - 05:00 AM	48.9	67.1	46.8
05:00 AM - 06:00 AM	51.1	62.9	47.8
06:00 AM - 07:00 AM	68.7	84.6	51.3
07:00 AM - 08:00 AM	53.6	78.9	49.2
08:00 AM - 09:00 AM	54.6	73.6	48.9
09:00 AM - 10:00 AM	54.4	82.8	45.1
10:00 AM - 11:00 AM	51.4	68.2	47.9

Leq Average 24 hrs. (dB(A)) 60.0
Lmax (dB(A)) 84.6
L90 (dB(A)) 48.5
Ldn (dB(A)) 66.9
Standard (dB(A)) 70 115

Reference Method : ISO1996-1 and 1996-2

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

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.

88/4-5, Map Ta Phut Industrial Estate, Rayong - Highway 3191 Road, Map Ta Phut, Mueang Rayong, Rayong Thailand 21150

P/O :

Project Name : Environmental Monitoring

Project Location : Site 7

Lot ID: 2346222

Date Received : May 23, 2023

Date Reported : May 29, 2023

Report Number: 2664235-1

Page 1 of 1

Sample Number 2346222-6
Parameter Noise (Leq 24 hrs.)
Location ชุมชนบ้านบน (GPS 47P 0735247, 1408970)
Measurement Date May 21 - May 22, 2023
Measurement by Nontachai Uppathamp
Sound Level meter Serial No. 900071

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
11:00 AM - 12:00 PM	69.1	79.0	51.7
12:00 PM - 01:00 PM	52.7	74.0	48.4
01:00 PM - 02:00 PM	51.3	65.6	47.6
02:00 PM - 03:00 PM	59.7	77.3	49.4
03:00 PM - 04:00 PM	51.6	66.9	48.0
04:00 PM - 05:00 PM	51.9	70.2	47.9
05:00 PM - 06:00 PM	52.4	72.5	48.0
06:00 PM - 07:00 PM	53.6	74.7	49.9
07:00 PM - 08:00 PM	69.2	77.5	45.5
08:00 PM - 09:00 PM	53.0	69.8	49.7
09:00 PM - 10:00 PM	52.8	69.8	49.0
10:00 PM - 11:00 PM	52.1	68.5	49.1
11:00 PM - 12:00 AM	69.3	79.0	48.8
12:00 AM - 01:00 AM	61.1	76.0	48.9
01:00 AM - 02:00 AM	66.8	77.5	48.8
02:00 AM - 03:00 AM	50.3	70.7	47.1
03:00 AM - 04:00 AM	49.2	61.5	46.8
04:00 AM - 05:00 AM	48.9	61.6	46.7
05:00 AM - 06:00 AM	49.9	61.6	47.2
06:00 AM - 07:00 AM	69.6	80.4	49.2
07:00 AM - 08:00 AM	53.6	70.9	49.1
08:00 AM - 09:00 AM	54.2	69.8	49.9
09:00 AM - 10:00 AM	52.4	73.9	44.9
10:00 AM - 11:00 AM	49.5	69.0	42.0

Leq Average 24 hrs. (dB(A)) 62.6
Lmax (dB(A)) 80.4
L90 (dB(A)) 48.4
Ldn (dB(A)) 70.4
Standard (dB(A)) 70 115

Reference Method : ISO1996-1 and 1996-2

Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป
2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดค่าระดับเสียงการรบกวน 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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Analysis / Test Report

TESTING
No.0042

Client : Thai Polyethylene Co., Ltd.

88/4-5, Map Ta Phut Industrial Estate, Rayong - Highway 3191 Road, Map Ta Phut, Mueang
Rayong, Rayong Thailand 21150

P/O :

Project Name : Environmental Monitoring

Project Location : Site 7

Lot ID: 2346222

Date Received : May 23, 2023

Date Reported : May 29, 2023

Report Number: 2664236-1

Page 1 of 1

Sample Number 2346222-7
Parameter Noise (Leq 24 hrs.)
Location ชุมชนบ้านบน (GPS 47P 0735247, 1408970)
Measurement Date May 22 - May 23, 2023
Measurement by Nontachai Uppathamp
Sound Level meter Serial No. 900071

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
11:00 AM - 12:00 PM	50.8	65.7	47.4
12:00 PM - 01:00 PM	52.1	69.0	47.9
01:00 PM - 02:00 PM	52.1	71.6	48.4
02:00 PM - 03:00 PM	63.3	72.2	47.7
03:00 PM - 04:00 PM	50.5	72.5	46.8
04:00 PM - 05:00 PM	50.6	68.9	47.2
05:00 PM - 06:00 PM	54.7	77.0	49.1
06:00 PM - 07:00 PM	53.3	71.5	49.3
07:00 PM - 08:00 PM	66.7	82.6	49.3
08:00 PM - 09:00 PM	53.6	72.4	51.4
09:00 PM - 10:00 PM	54.5	76.3	51.9
10:00 PM - 11:00 PM	53.5	79.8	48.4
11:00 PM - 12:00 AM	52.0	71.2	48.4
12:00 AM - 01:00 AM	54.0	68.7	48.7
01:00 AM - 02:00 AM	51.0	68.0	48.0
02:00 AM - 03:00 AM	50.0	63.2	48.6
03:00 AM - 04:00 AM	50.3	63.5	48.3
04:00 AM - 05:00 AM	50.3	61.9	48.2
05:00 AM - 06:00 AM	50.4	61.7	48.5
06:00 AM - 07:00 AM	67.1	77.0	49.7
07:00 AM - 08:00 AM	53.0	70.7	49.6
08:00 AM - 09:00 AM	54.7	73.7	49.8
09:00 AM - 10:00 AM	52.9	68.7	49.1
10:00 AM - 11:00 AM	49.6	69.8	42.2

Leq Average 24 hrs. (dB(A)) 58.1
Lmax (dB(A)) 82.6
L90 (dB(A)) 48.4
Ldn (dB(A)) 64.8
Standard (dB(A)) 70 115

Reference Method : ISO1996-1 and 1996-2

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

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.

88/4-5, Map Ta Phut Industrial Estate, Rayong - Highway 3191 Road, Map Ta Phut, Mueang
Rayong, Rayong Thailand 21150

P/O :

Project Name : Environmental Monitoring

Project Location : Site 7

Lot ID: 2346222

Date Received : May 23, 2023

Date Reported : May 29, 2023

Report Number: 2664237-1

Page 1 of 1

Sample Number 2346222-8
Parameter Noise (Leq 24 hrs.)
Location ชุมชนมาบตาพุด (GPS 47P 0735248, 1408975)
Measurement Date May 16 - May 17, 2023
Measurement by Nontachai Uppathamp
Sound Level meter Serial No. 900072

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
12:00 PM - 01:00 PM	53.0	80.9	42.2
01:00 PM - 02:00 PM	52.9	73.9	44.2
02:00 PM - 03:00 PM	55.3	79.5	43.9
03:00 PM - 04:00 PM	48.1	78.7	44.0
04:00 PM - 05:00 PM	49.6	72.0	44.7
05:00 PM - 06:00 PM	54.4	78.6	43.0
06:00 PM - 07:00 PM	52.8	73.7	46.6
07:00 PM - 08:00 PM	56.9	83.4	46.0
08:00 PM - 09:00 PM	49.5	66.6	42.3
09:00 PM - 10:00 PM	54.1	83.1	43.0
10:00 PM - 11:00 PM	48.5	80.9	42.7
11:00 PM - 12:00 AM	47.4	77.5	43.0
12:00 AM - 01:00 AM	52.5	77.7	44.9
01:00 AM - 02:00 AM	49.4	61.2	47.4
02:00 AM - 03:00 AM	47.5	59.9	43.1
03:00 AM - 04:00 AM	43.7	57.5	41.6
04:00 AM - 05:00 AM	45.6	63.3	41.1
05:00 AM - 06:00 AM	44.3	61.9	41.4
06:00 AM - 07:00 AM	49.3	74.4	42.0
07:00 AM - 08:00 AM	51.4	70.3	45.9
08:00 AM - 09:00 AM	55.3	84.2	47.6
09:00 AM - 10:00 AM	62.8	92.5	48.0
10:00 AM - 11:00 AM	60.4	87.5	47.2
11:00 AM - 12:00 PM	56.4	83.5	47.2

Leq Average 24 hrs. (dB(A)) 54.5
Lmax (dB(A)) 92.5
L90 (dB(A)) 43.9
Ldn (dB(A)) 57.1
Standard (dB(A)) 70 115

Reference Method : ISO1996-1 and 1996-2

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

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.

88/4-5, Map Ta Phut Industrial Estate, Rayong - Highway 3191 Road, Map Ta Phut, Mueang
Rayong, Rayong Thailand 21150

P/O :

Project Name : Environmental Monitoring

Project Location : Site 7

Lot ID: 2346222

Date Received : May 23, 2023

Date Reported : May 29, 2023

Report Number: 2664238-1

Page 1 of 1

Sample Number 2346222-9
Parameter Noise (Leq 24 hrs.)
Location ชุมชนมาบตาพุด (GPS 47P 0735248, 1408975)
Measurement Date May 17 - May 18, 2023
Measurement by Nontachai Uppathamp
Sound Level meter Serial No. 900072

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
12:00 PM - 01:00 PM	55.2	82.3	44.6
01:00 PM - 02:00 PM	53.9	87.3	43.4
02:00 PM - 03:00 PM	48.0	67.0	42.4
03:00 PM - 04:00 PM	47.1	70.9	42.4
04:00 PM - 05:00 PM	48.8	77.6	43.3
05:00 PM - 06:00 PM	47.4	70.0	42.3
06:00 PM - 07:00 PM	52.1	74.2	44.2
07:00 PM - 08:00 PM	52.3	72.8	41.8
08:00 PM - 09:00 PM	46.3	67.6	41.8
09:00 PM - 10:00 PM	47.1	76.9	41.9
10:00 PM - 11:00 PM	44.2	64.3	41.6
11:00 PM - 12:00 AM	44.8	62.8	42.0
12:00 AM - 01:00 AM	44.9	63.2	42.3
01:00 AM - 02:00 AM	44.5	59.9	42.3
02:00 AM - 03:00 AM	42.8	55.9	40.2
03:00 AM - 04:00 AM	43.8	64.0	38.2
04:00 AM - 05:00 AM	46.7	74.3	39.8
05:00 AM - 06:00 AM	43.2	57.1	40.2
06:00 AM - 07:00 AM	48.2	75.1	42.9
07:00 AM - 08:00 AM	50.9	74.9	44.6
08:00 AM - 09:00 AM	52.3	83.3	43.4
09:00 AM - 10:00 AM	50.2	75.7	43.8
10:00 AM - 11:00 AM	53.4	85.6	43.7
11:00 AM - 12:00 PM	47.7	74.7	40.5

Leq Average 24 hrs. (dB(A)) 49.7
Lmax (dB(A)) 87.3
L90 (dB(A)) 42.3
Ldn (dB(A)) 53.1
Standard (dB(A)) 70 115

Reference Method : ISO1996-1 and 1996-2

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

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.

88/4-5, Map Ta Phut Industrial Estate, Rayong - Highway 3191 Road, Map Ta Phut, Mueang
Rayong, Rayong Thailand 21150

P/O :

Project Name : Environmental Monitoring

Project Location : Site 7

Lot ID: 2346222

Date Received : May 23, 2023

Date Reported : May 29, 2023

Report Number: 2664239-1

Page 1 of 1

Sample Number 2346222-10
Parameter Noise (Leq 24 hrs.)
Location ชุมชนมาบตาพุด (GPS 47P 0735248, 1408975)
Measurement Date May 18 - May 19, 2023
Measurement by Nontachai Uppathamp
Sound Level meter Serial No. 900072

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
12:00 PM - 01:00 PM	51.3	83.9	41.4
01:00 PM - 02:00 PM	49.1	76.6	42.6
02:00 PM - 03:00 PM	48.4	66.8	42.2
03:00 PM - 04:00 PM	48.5	64.6	41.9
04:00 PM - 05:00 PM	52.6	90.0	41.5
05:00 PM - 06:00 PM	50.4	83.7	43.0
06:00 PM - 07:00 PM	52.1	84.1	43.1
07:00 PM - 08:00 PM	50.7	77.7	43.1
08:00 PM - 09:00 PM	46.1	66.4	41.8
09:00 PM - 10:00 PM	50.0	83.8	41.8
10:00 PM - 11:00 PM	48.2	81.8	41.4
11:00 PM - 12:00 AM	44.1	62.2	40.8
12:00 AM - 01:00 AM	45.7	71.2	40.6
01:00 AM - 02:00 AM	49.6	80.7	39.6
02:00 AM - 03:00 AM	47.8	75.7	38.1
03:00 AM - 04:00 AM	40.9	56.8	38.0
04:00 AM - 05:00 AM	39.6	57.8	35.9
05:00 AM - 06:00 AM	43.3	59.7	39.4
06:00 AM - 07:00 AM	47.4	69.4	40.8
07:00 AM - 08:00 AM	49.4	75.1	44.3
08:00 AM - 09:00 AM	50.5	77.7	41.8
09:00 AM - 10:00 AM	53.0	80.9	42.2
10:00 AM - 11:00 AM	52.9	65.3	51.3
11:00 AM - 12:00 PM	50.2	57.8	48.4

Leq Average 24 hrs. (dB(A)) 49.5
Lmax (dB(A)) 90.0
L90 (dB(A)) 41.8
Ldn (dB(A)) 53.6
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.

88/4-5, Map Ta Phut Industrial Estate, Rayong - Highway 3191 Road, Map Ta Phut, Mueang
Rayong, Rayong Thailand 21150

P/O :

Project Name : Environmental Monitoring

Project Location : Site 7

Lot ID: 2346222

Date Received : May 23, 2023

Date Reported : May 29, 2023

Report Number: 2664240-1

Page 1 of 1

Sample Number 2346222-11
Parameter Noise (Leq 24 hrs.)
Location ชุมชนมาบตาพุด (GPS 47P 0735248, 1408975)
Measurement Date May 19 - May 20, 2023
Measurement by Nontachai Uppathamp
Sound Level meter Serial No. 900072

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
12:00 PM - 01:00 PM	54.1	83.1	43.0
01:00 PM - 02:00 PM	48.5	80.9	42.7
02:00 PM - 03:00 PM	47.4	77.5	43.0
03:00 PM - 04:00 PM	52.5	77.7	44.9
04:00 PM - 05:00 PM	49.4	61.2	47.4
05:00 PM - 06:00 PM	47.5	59.9	43.1
06:00 PM - 07:00 PM	43.7	57.5	41.6
07:00 PM - 08:00 PM	45.6	63.3	41.1
08:00 PM - 09:00 PM	44.3	61.9	41.4
09:00 PM - 10:00 PM	47.1	70.9	42.4
10:00 PM - 11:00 PM	48.8	77.6	43.3
11:00 PM - 12:00 AM	47.4	70.0	42.3
12:00 AM - 01:00 AM	52.1	74.2	44.2
01:00 AM - 02:00 AM	52.3	72.8	41.8
02:00 AM - 03:00 AM	46.3	67.6	41.8
03:00 AM - 04:00 AM	47.1	76.9	41.9
04:00 AM - 05:00 AM	44.2	64.3	41.6
05:00 AM - 06:00 AM	48.4	66.8	42.2
06:00 AM - 07:00 AM	48.5	64.6	41.9
07:00 AM - 08:00 AM	52.6	90.0	41.5
08:00 AM - 09:00 AM	50.4	83.7	43.0
09:00 AM - 10:00 AM	52.1	84.1	43.1
10:00 AM - 11:00 AM	50.7	77.7	43.1
11:00 AM - 12:00 PM	46.1	66.4	41.8

Leq Average 24 hrs. (dB(A)) 49.6
Lmax (dB(A)) 90.0
L90 (dB(A)) 42.3
Ldn (dB(A)) 55.6
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.

88/4-5, Map Ta Phut Industrial Estate, Rayong - Highway 3191 Road, Map Ta Phut, Mueang
Rayong, Rayong Thailand 21150

P/O :

Project Name : Environmental Monitoring

Project Location : Site 7

Lot ID: 2346222

Date Received : May 23, 2023

Date Reported : May 29, 2023

Report Number: 2664241-1

Page 1 of 1

Sample Number 2346222-12
Parameter Noise (Leq 24 hrs.)
Location ชุมชนมาบตาพุด (GPS 47P 0735248, 1408975)
Measurement Date May 20 - May 21, 2023
Measurement by Nontachai Uppathamp
Sound Level meter Serial No. 900072

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
12:00 PM - 01:00 PM	52.4	77.6	43.2
01:00 PM - 02:00 PM	50.3	76.2	43.2
02:00 PM - 03:00 PM	50.8	76.7	43.7
03:00 PM - 04:00 PM	53.1	82.0	45.4
04:00 PM - 05:00 PM	50.3	79.3	42.3
05:00 PM - 06:00 PM	50.1	74.6	42.1
06:00 PM - 07:00 PM	57.8	78.7	43.4
07:00 PM - 08:00 PM	57.9	82.5	43.3
08:00 PM - 09:00 PM	50.9	75.5	36.3
09:00 PM - 10:00 PM	44.0	67.1	41.1
10:00 PM - 11:00 PM	45.2	71.8	42.1
11:00 PM - 12:00 AM	44.4	67.0	41.3
12:00 AM - 01:00 AM	43.6	66.8	40.1
01:00 AM - 02:00 AM	44.9	62.3	42.2
02:00 AM - 03:00 AM	46.6	65.5	44.7
03:00 AM - 04:00 AM	48.1	70.3	44.8
04:00 AM - 05:00 AM	45.4	58.6	43.7
05:00 AM - 06:00 AM	48.5	75.3	46.3
06:00 AM - 07:00 AM	48.7	69.3	46.2
07:00 AM - 08:00 AM	50.5	77.3	45.1
08:00 AM - 09:00 AM	51.5	77.7	44.4
09:00 AM - 10:00 AM	54.1	79.9	42.0
10:00 AM - 11:00 AM	52.8	81.6	41.5
11:00 AM - 12:00 PM	59.1	83.2	41.9

Leq Average 24 hrs. (dB(A)) 52.3
Lmax (dB(A)) 83.2
L90 (dB(A)) 43.2
Ldn (dB(A)) 55.1
Standard (dB(A)) 70 115

Reference Method : ISO1996-1 and 1996-2

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

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.

88/4-5, Map Ta Phut Industrial Estate, Rayong - Highway 3191 Road, Map Ta Phut, Mueang
Rayong, Rayong Thailand 21150

P/O :

Project Name : Environmental Monitoring

Project Location : Site 7

Lot ID: 2346222

Date Received : May 23, 2023

Date Reported : May 29, 2023

Report Number: 2664242-1

Page 1 of 1

Sample Number 2346222-13
Parameter Noise (Leq 24 hrs.)
Location ชุมชนมาบตาพุด (GPS 47P 0735248, 1408975)
Measurement Date May 21 - May 22, 2023
Measurement by Nontachai Uppathamp
Sound Level meter Serial No. 900072

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
12:00 PM - 01:00 PM	46.6	70.6	43.6
01:00 PM - 02:00 PM	50.1	77.5	45.0
02:00 PM - 03:00 PM	49.8	76.0	45.2
03:00 PM - 04:00 PM	51.2	78.6	43.8
04:00 PM - 05:00 PM	49.8	76.9	42.6
05:00 PM - 06:00 PM	62.8	92.5	48.0
06:00 PM - 07:00 PM	60.4	87.5	47.2
07:00 PM - 08:00 PM	56.4	83.5	47.2
08:00 PM - 09:00 PM	55.2	82.3	44.6
09:00 PM - 10:00 PM	53.9	87.3	43.4
10:00 PM - 11:00 PM	48.0	67.0	42.4
11:00 PM - 12:00 AM	47.1	70.9	42.4
12:00 AM - 01:00 AM	49.6	80.7	39.6
01:00 AM - 02:00 AM	47.8	75.7	38.1
02:00 AM - 03:00 AM	40.9	56.8	38.0
03:00 AM - 04:00 AM	42.4	52.0	40.9
04:00 AM - 05:00 AM	42.9	50.6	41.6
05:00 AM - 06:00 AM	44.9	68.0	39.5
06:00 AM - 07:00 AM	47.4	63.2	44.9
07:00 AM - 08:00 AM	44.8	66.3	41.2
08:00 AM - 09:00 AM	48.4	70.7	44.3
09:00 AM - 10:00 AM	44.0	67.1	41.1
10:00 AM - 11:00 AM	45.2	71.8	42.1
11:00 AM - 12:00 PM	50.1	71.6	41.1

Leq Average 24 hrs. (dB(A)) 53.3
Lmax (dB(A)) 92.5
L90 (dB(A)) 42.4
Ldn (dB(A)) 55.6
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.

88/4-5, Map Ta Phut Industrial Estate, Rayong - Highway 3191 Road, Map Ta Phut, Mueang
Rayong, Rayong Thailand 21150

P/O :

Project Name : Environmental Monitoring

Project Location : Site 7

Lot ID: 2346222

Date Received : May 23, 2023

Date Reported : May 29, 2023

Report Number: 2664243-1

Page 1 of 1

Sample Number 2346222-14
Parameter Noise (Leq 24 hrs.)
Location ชุมชนมาบตาพุด (GPS 47P 0735248, 1408975)
Measurement Date May 22 - May 23, 2023
Measurement by Nontachai Uppathamp
Sound Level meter Serial No. 900072

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
12:00 PM - 01:00 PM	50.0	78.2	40.9
01:00 PM - 02:00 PM	47.5	77.7	40.1
02:00 PM - 03:00 PM	46.0	73.5	40.9
03:00 PM - 04:00 PM	52.6	77.1	41.6
04:00 PM - 05:00 PM	52.1	83.5	41.4
05:00 PM - 06:00 PM	49.5	75.0	41.6
06:00 PM - 07:00 PM	52.6	72.2	43.3
07:00 PM - 08:00 PM	57.5	74.2	49.5
08:00 PM - 09:00 PM	48.5	73.6	42.6
09:00 PM - 10:00 PM	46.8	74.3	42.7
10:00 PM - 11:00 PM	50.2	76.7	42.6
11:00 PM - 12:00 AM	46.6	78.3	41.3
12:00 AM - 01:00 AM	44.4	71.0	42.3
01:00 AM - 02:00 AM	44.4	61.6	41.5
02:00 AM - 03:00 AM	44.7	62.4	41.3
03:00 AM - 04:00 AM	44.1	57.2	42.0
04:00 AM - 05:00 AM	45.9	66.9	42.6
05:00 AM - 06:00 AM	46.6	70.6	43.6
06:00 AM - 07:00 AM	50.1	77.5	45.0
07:00 AM - 08:00 AM	49.8	76.0	45.2
08:00 AM - 09:00 AM	51.2	78.6	43.8
09:00 AM - 10:00 AM	49.8	76.9	42.6
10:00 AM - 11:00 AM	54.0	78.3	41.5
11:00 AM - 12:00 PM	55.6	87.8	41.0

Leq Average 24 hrs. (dB(A)) 50.8
Lmax (dB(A)) 87.8
L90 (dB(A)) 42.0
Ldn (dB(A)) 54.6
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.

88/4-5, Map Ta Phut Industrial Estate, Rayong - Highway 3191 Road, Map Ta Phut, Mueang
Rayong, Rayong Thailand 21150

P/O :

Project Name : Environmental Monitoring

Project Location : Site 7

Lot ID: 2346222

Date Received : May 23, 2023

Date Reported : May 29, 2023

Report Number: 2664244-1

Page 1 of 1

Sample Number 2346222-15
Parameter Noise (Leq 24 hrs.)
Location ชุมชนเนินพยอม (หมู่บ้านนพเขต) (GPS 47P 0736519, 1411263)
Measurement Date May 16 - May 17, 2023
Measurement by Nontachai Uppathamp
Sound Level meter Serial No. 900073

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
10:00 AM - 11:00 AM	57.5	83.9	51.1
11:00 AM - 12:00 PM	55.5	71.5	51.2
12:00 PM - 01:00 PM	58.1	71.2	52.5
01:00 PM - 02:00 PM	55.9	68.1	51.7
02:00 PM - 03:00 PM	55.7	72.4	51.5
03:00 PM - 04:00 PM	56.0	72.2	51.6
04:00 PM - 05:00 PM	58.0	69.9	53.1
05:00 PM - 06:00 PM	57.7	77.1	54.0
06:00 PM - 07:00 PM	59.1	78.3	53.1
07:00 PM - 08:00 PM	56.2	71.7	52.8
08:00 PM - 09:00 PM	56.2	74.5	52.1
09:00 PM - 10:00 PM	55.5	72.2	52.3
10:00 PM - 11:00 PM	56.1	77.1	51.7
11:00 PM - 12:00 AM	55.2	73.3	52.3
12:00 AM - 01:00 AM	53.5	68.8	51.5
01:00 AM - 02:00 AM	53.0	70.0	51.0
02:00 AM - 03:00 AM	52.8	69.1	50.7
03:00 AM - 04:00 AM	52.9	74.2	50.5
04:00 AM - 05:00 AM	53.1	67.7	50.5
05:00 AM - 06:00 AM	56.3	70.3	52.0
06:00 AM - 07:00 AM	56.3	70.0	52.9
07:00 AM - 08:00 AM	58.3	72.0	55.3
08:00 AM - 09:00 AM	56.6	74.4	52.8
09:00 AM - 10:00 AM	56.2	79.0	51.9

Leq Average 24 hrs. (dB(A)) 56.2
Lmax (dB(A)) 83.9
L90 (dB(A)) 51.9
Ldn (dB(A)) 61.5
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.

88/4-5, Map Ta Phut Industrial Estate, Rayong - Highway 3191 Road, Map Ta Phut, Mueang
Rayong, Rayong Thailand 21150

P/O :

Project Name : Environmental Monitoring

Project Location : Site 7

Lot ID: 2346222

Date Received : May 23, 2023

Date Reported : May 29, 2023

Report Number: 2664245-1

Page 1 of 1

Sample Number 2346222-16
Parameter Noise (Leq 24 hrs.)
Location ชุมชนเนินพยอม (หมู่บ้านนพเขต) (GPS 47P 0736519, 1411263)
Measurement Date May 17 - May 18, 2023
Measurement by Nontachai Uppathamp
Sound Level meter Serial No. 900073

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
10:00 AM - 11:00 AM	57.6	70.5	53.9
11:00 AM - 12:00 PM	57.5	82.4	53.2
12:00 PM - 01:00 PM	56.7	73.7	52.3
01:00 PM - 02:00 PM	56.7	75.9	53.7
02:00 PM - 03:00 PM	55.7	72.5	52.8
03:00 PM - 04:00 PM	55.4	65.7	52.8
04:00 PM - 05:00 PM	55.7	69.8	52.4
05:00 PM - 06:00 PM	57.8	76.2	53.5
06:00 PM - 07:00 PM	57.4	71.0	53.5
07:00 PM - 08:00 PM	56.2	74.7	52.3
08:00 PM - 09:00 PM	56.1	75.0	52.6
09:00 PM - 10:00 PM	56.9	78.1	51.9
10:00 PM - 11:00 PM	55.4	79.2	51.4
11:00 PM - 12:00 AM	55.2	72.1	51.6
12:00 AM - 01:00 AM	55.7	72.5	52.3
01:00 AM - 02:00 AM	55.2	73.5	51.3
02:00 AM - 03:00 AM	54.3	70.7	50.8
03:00 AM - 04:00 AM	53.3	71.1	50.1
04:00 AM - 05:00 AM	54.1	71.8	50.6
05:00 AM - 06:00 AM	57.3	69.6	52.8
06:00 AM - 07:00 AM	57.4	75.2	54.0
07:00 AM - 08:00 AM	58.3	74.0	54.8
08:00 AM - 09:00 AM	57.2	70.8	52.2
09:00 AM - 10:00 AM	55.2	75.7	51.4

Leq Average 24 hrs. (dB(A)) 56.4
Lmax (dB(A)) 82.4
L90 (dB(A)) 52.3
Ldn (dB(A)) 62.1
Standard (dB(A)) 70 115

Reference Method : ISO1996-1 and 1996-2

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

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.

88/4-5, Map Ta Phut Industrial Estate, Rayong - Highway 3191 Road, Map Ta Phut, Mueang
Rayong, Rayong Thailand 21150

P/O :

Project Name : Environmental Monitoring

Project Location : Site 7

Lot ID: 2346222

Date Received : May 23, 2023

Date Reported : May 29, 2023

Report Number: 2664246-1

Page 1 of 1

Sample Number 2346222-17
Parameter Noise (Leq 24 hrs.)
Location ชุมชนเนินพยอม (หมู่บ้านนพเขต) (GPS 47P 0736519, 1411263)
Measurement Date May 18 - May 19, 2023
Measurement by Nontachai Uppathamp
Sound Level meter Serial No. 900073

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
10:00 AM - 11:00 AM	54.4	79.1	49.8
11:00 AM - 12:00 PM	55.6	74.7	50.6
12:00 PM - 01:00 PM	57.2	77.7	50.8
01:00 PM - 02:00 PM	54.3	67.7	51.0
02:00 PM - 03:00 PM	55.5	72.1	51.3
03:00 PM - 04:00 PM	54.4	69.5	51.1
04:00 PM - 05:00 PM	57.7	70.7	51.4
05:00 PM - 06:00 PM	56.3	69.1	52.9
06:00 PM - 07:00 PM	57.6	75.0	53.3
07:00 PM - 08:00 PM	57.0	77.1	52.9
08:00 PM - 09:00 PM	55.3	75.3	51.8
09:00 PM - 10:00 PM	54.8	70.0	51.0
10:00 PM - 11:00 PM	53.5	70.5	50.4
11:00 PM - 12:00 AM	53.9	75.6	50.1
12:00 AM - 01:00 AM	53.4	71.4	50.2
01:00 AM - 02:00 AM	52.9	70.0	49.7
02:00 AM - 03:00 AM	52.8	65.5	49.4
03:00 AM - 04:00 AM	53.3	70.0	49.1
04:00 AM - 05:00 AM	52.6	67.9	48.7
05:00 AM - 06:00 AM	54.9	69.1	50.2
06:00 AM - 07:00 AM	56.5	71.0	52.3
07:00 AM - 08:00 AM	57.6	74.4	54.0
08:00 AM - 09:00 AM	57.0	72.3	51.3
09:00 AM - 10:00 AM	53.9	73.0	50.3

Leq Average 24 hrs. (dB(A)) 55.4
Lmax (dB(A)) 79.1
L90 (dB(A)) 50.8
Ldn (dB(A)) 60.7
Standard (dB(A)) 70 115

Reference Method : ISO1996-1 and 1996-2

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

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.

88/4-5, Map Ta Phut Industrial Estate, Rayong - Highway 3191 Road, Map Ta Phut, Mueang
Rayong, Rayong Thailand 21150

P/O :

Project Name : Environmental Monitoring

Project Location : Site 7

Lot ID: 2346222

Date Received : May 23, 2023

Date Reported : May 29, 2023

Report Number: 2664247-1

Page 1 of 1

Sample Number 2346222-18
Parameter Noise (Leq 24 hrs.)
Location ชุมชนเนินพยอม (หมู่บ้านนพเขต) (GPS 47P 0736519, 1411263)
Measurement Date May 19 - May 20, 2023
Measurement by Nontachai Uppathamp
Sound Level meter Serial No. 900073

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
10:00 AM - 11:00 AM	54.3	71.0	50.5
11:00 AM - 12:00 PM	55.9	79.8	50.8
12:00 PM - 01:00 PM	58.7	81.7	51.5
01:00 PM - 02:00 PM	54.9	73.5	50.1
02:00 PM - 03:00 PM	54.0	72.5	49.7
03:00 PM - 04:00 PM	54.5	67.0	50.8
04:00 PM - 05:00 PM	57.8	71.6	51.9
05:00 PM - 06:00 PM	57.4	74.8	53.7
06:00 PM - 07:00 PM	57.2	76.1	53.7
07:00 PM - 08:00 PM	55.8	74.3	52.3
08:00 PM - 09:00 PM	54.6	66.3	51.6
09:00 PM - 10:00 PM	55.4	70.4	51.3
10:00 PM - 11:00 PM	54.9	70.3	50.5
11:00 PM - 12:00 AM	53.8	67.9	50.1
12:00 AM - 01:00 AM	53.1	72.8	48.9
01:00 AM - 02:00 AM	52.4	66.2	49.1
02:00 AM - 03:00 AM	52.1	70.0	48.9
03:00 AM - 04:00 AM	52.8	73.5	48.9
04:00 AM - 05:00 AM	53.3	79.7	49.1
05:00 AM - 06:00 AM	54.9	70.8	50.5
06:00 AM - 07:00 AM	55.9	74.7	52.0
07:00 AM - 08:00 AM	57.1	75.2	52.7
08:00 AM - 09:00 AM	55.0	71.8	50.5
09:00 AM - 10:00 AM	55.0	72.9	50.4

Leq Average 24 hrs. (dB(A)) 55.4
Lmax (dB(A)) 81.7
L90 (dB(A)) 50.5
Ldn (dB(A)) 60.7
Standard (dB(A)) 70 115

Reference Method : ISO1996-1 and 1996-2

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

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.

88/4-5, Map Ta Phut Industrial Estate, Rayong - Highway 3191 Road, Map Ta Phut, Mueang
Rayong, Rayong Thailand 21150

P/O :

Project Name : Environmental Monitoring

Project Location : Site 7

Lot ID: 2346222

Date Received : May 23, 2023

Date Reported : May 29, 2023

Report Number: 2664248-1

Page 1 of 1

Sample Number 2346222-19
Parameter Noise (Leq 24 hrs.)
Location ชุมชนเนินพยอม (หมู่บ้านนพเขต) (GPS 47P 0736519, 1411263)
Measurement Date May 20 - May 21, 2023
Measurement by Nontachai Uppathamp
Sound Level meter Serial No. 900073

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
10:00 AM - 11:00 AM	54.4	69.8	50.6
11:00 AM - 12:00 PM	54.5	75.0	50.2
12:00 PM - 01:00 PM	55.3	70.6	50.7
01:00 PM - 02:00 PM	54.2	71.0	50.1
02:00 PM - 03:00 PM	53.9	66.8	49.9
03:00 PM - 04:00 PM	53.9	67.1	49.7
04:00 PM - 05:00 PM	54.8	70.3	50.3
05:00 PM - 06:00 PM	57.0	75.4	52.7
06:00 PM - 07:00 PM	57.4	74.5	54.3
07:00 PM - 08:00 PM	58.5	74.9	53.9
08:00 PM - 09:00 PM	59.9	73.6	53.2
09:00 PM - 10:00 PM	55.6	71.1	50.9
10:00 PM - 11:00 PM	54.6	68.1	50.7
11:00 PM - 12:00 AM	53.9	68.2	49.9
12:00 AM - 01:00 AM	53.9	73.2	49.6
01:00 AM - 02:00 AM	53.5	70.6	49.7
02:00 AM - 03:00 AM	52.6	73.9	48.4
03:00 AM - 04:00 AM	51.9	66.5	47.6
04:00 AM - 05:00 AM	51.9	71.0	47.4
05:00 AM - 06:00 AM	55.0	80.7	49.5
06:00 AM - 07:00 AM	54.4	70.0	50.2
07:00 AM - 08:00 AM	55.9	70.9	51.3
08:00 AM - 09:00 AM	53.6	67.5	47.1
09:00 AM - 10:00 AM	53.4	66.1	49.7

Leq Average 24 hrs. (dB(A)) 55.2
Lmax (dB(A)) 80.7
L90 (dB(A)) 50.1
Ldn (dB(A)) 60.5
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.

88/4-5, Map Ta Phut Industrial Estate, Rayong - Highway 3191 Road, Map Ta Phut, Mueang Rayong, Rayong Thailand 21150

P/O :

Project Name : Environmental Monitoring

Project Location : Site 7

Lot ID: 2346222

Date Received : May 23, 2023

Date Reported : May 29, 2023

Report Number: 2664249-1

Page 1 of 1

Sample Number 2346222-20
Parameter Noise (Leq 24 hrs.)
Location ชุมชนเนินพยอม (หมู่บ้านนพเขต) (GPS 47P 0736519, 1411263)
Measurement Date May 21 - May 22, 2023
Measurement by Nontachai Uppathamp
Sound Level meter Serial No. 900073

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
10:00 AM - 11:00 AM	53.9	66.3	49.7
11:00 AM - 12:00 PM	56.8	71.0	50.9
12:00 PM - 01:00 PM	55.3	74.7	51.2
01:00 PM - 02:00 PM	55.2	67.4	51.4
02:00 PM - 03:00 PM	55.7	77.1	52.0
03:00 PM - 04:00 PM	55.0	70.6	51.2
04:00 PM - 05:00 PM	56.3	77.8	52.2
05:00 PM - 06:00 PM	56.9	77.3	52.4
06:00 PM - 07:00 PM	57.6	71.6	53.5
07:00 PM - 08:00 PM	55.6	68.0	51.7
08:00 PM - 09:00 PM	54.5	71.3	50.0
09:00 PM - 10:00 PM	54.5	65.9	50.6
10:00 PM - 11:00 PM	54.6	69.9	50.5
11:00 PM - 12:00 AM	53.8	73.5	49.5
12:00 AM - 01:00 AM	53.2	66.2	49.1
01:00 AM - 02:00 AM	51.9	67.0	48.6
02:00 AM - 03:00 AM	53.6	64.6	50.6
03:00 AM - 04:00 AM	53.8	70.9	50.4
04:00 AM - 05:00 AM	53.5	66.4	50.9
05:00 AM - 06:00 AM	59.4	70.5	52.2
06:00 AM - 07:00 AM	56.6	74.0	53.2
07:00 AM - 08:00 AM	58.1	72.2	54.6
08:00 AM - 09:00 AM	55.9	67.9	52.4
09:00 AM - 10:00 AM	53.6	73.5	47.3

Leq Average 24 hrs. (dB(A)) 55.6
Lmax (dB(A)) 77.8
L90 (dB(A)) 50.9
Ldn (dB(A)) 61.6
Standard (dB(A)) 70 115

Reference Method : ISO1996-1 and 1996-2

Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป
2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดค่าระดับเสียงการรบกวน 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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Analysis / Test Report

TESTING
No.0042

Client : Thai Polyethylene Co., Ltd.

88/4-5, Map Ta Phut Industrial Estate, Rayong - Highway 3191 Road, Map Ta Phut, Mueang
Rayong, Rayong Thailand 21150

P/O :

Project Name : Environmental Monitoring

Project Location : Site 7

Lot ID: 2346222

Date Received : May 23, 2023

Date Reported : May 29, 2023

Report Number: 2664250-1

Page 1 of 1

Sample Number 2346222-21
Parameter Noise (Leq 24 hrs.)
Location ชุมชนเนินพยอม (หมู่บ้านนพเขต) (GPS 47P 0736519, 1411263)
Measurement Date May 22 - May 23, 2023
Measurement by Nontachai Uppathamp
Sound Level meter Serial No. 900073

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
10:00 AM - 11:00 AM	56.3	77.3	52.8
11:00 AM - 12:00 PM	57.5	69.6	53.6
12:00 PM - 01:00 PM	58.4	75.2	54.3
01:00 PM - 02:00 PM	57.3	73.3	53.5
02:00 PM - 03:00 PM	55.5	69.8	51.9
03:00 PM - 04:00 PM	56.4	73.9	52.8
04:00 PM - 05:00 PM	58.9	75.1	53.9
05:00 PM - 06:00 PM	56.8	70.7	52.9
06:00 PM - 07:00 PM	60.1	84.7	53.4
07:00 PM - 08:00 PM	55.9	68.5	52.2
08:00 PM - 09:00 PM	56.2	71.1	52.4
09:00 PM - 10:00 PM	57.0	75.8	53.0
10:00 PM - 11:00 PM	56.1	73.6	52.3
11:00 PM - 12:00 AM	54.6	73.9	50.8
12:00 AM - 01:00 AM	53.2	66.1	49.4
01:00 AM - 02:00 AM	53.1	69.2	49.2
02:00 AM - 03:00 AM	51.2	61.8	47.2
03:00 AM - 04:00 AM	51.5	69.2	47.2
04:00 AM - 05:00 AM	52.2	68.7	47.5
05:00 AM - 06:00 AM	60.8	71.2	49.8
06:00 AM - 07:00 AM	56.0	71.4	52.3
07:00 AM - 08:00 AM	57.8	71.8	53.7
08:00 AM - 09:00 AM	55.5	70.3	50.6
09:00 AM - 10:00 AM	54.5	72.1	49.7

Leq Average 24 hrs. (dB(A)) 56.6
Lmax (dB(A)) 84.7
L90 (dB(A)) 52.3
Ldn (dB(A)) 62.1
Standard (dB(A)) 70 115

Reference Method : ISO1996-1 and 1996-2

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

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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ภาคผนวก ค-3

คุณภาพน้ำทิ้ง

คุณภาพน้ำทิ้ง ของโรงงาน PP3



Analysis / Test Report

TESTING

No.0042

Lot ID: 232981

Date Received : Jan 10, 2023

Date Reported : Jan 23, 2023

Report Number : 2538702-1

Client : Thai Polyethylene Co., Ltd.

88/4-5, Map Ta Phut Industrial Estate, Rayong - Highway 3191 Road, Map Ta Phut,
Mueang Rayong, Rayong Thailand 21150

P/O :

Project Name : Environmental Monitoring

Project Location: PP3

Page 1 of 2

Sample Number	232981-1
Sampled Date	Jan 10, 2023 9:33 AM
Sample Description	Wastewater
Location	Inspection pit หลังผ่านบ่อ API ของโรงงาน PP3
Date Analysis Commenced	Jan 10, 2023
Condition of Sample	Contained in one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	6.1	≤500	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B	Rayong
COD	mg/L	1.5	25	42	≤750	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	9	≤600	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	8	≤600	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	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
pH at 25 degree C *		-	-	7.0	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	-	-	29.0	≤45	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	10	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	11	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

Technical Management

N. Banchongkit

Narumon Banchongkit
Supervisor

ทะเบียนเลขที่ ว-323-จ-9445

Approved by

D. Changchon

Dej Changchon
Senior Manager

ทะเบียนเลขที่ ว-323-ค-9442

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Analysis / Test Report

TESTING
No.0042

Client : Thai Polyethylene Co., Ltd.

88/4-5, Map Ta Phut Industrial Estate, Rayong - Highway 3191 Road, Map Ta Phut,
Mueang Rayong, Rayong Thailand 21150

P/O :

Project Name : Environmental Monitoring

Project Location: PP3

Lot ID: 232981

Date Received : Jan 10, 2023

Date Reported : Jan 23, 2023

Report Number : 2538702-1

Page 2 of 2

Guideline : Notification of the Industrial Estate Authority of Thailand No.76, B.E. 2560 : Criteria of wastewater characteristic from factory discharge to central wastewater Treatment Plant

Sampling By : Chainusorn Lertnanthakunchai ทะเบียนเลขที่ ว-323-จ-9461

Remark :

- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
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- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

N. Banchongkit

Narumon Banchongkit
Supervisor

ทะเบียนเลขที่ ว-323-จ-9445

Approved by

D. Changchon

Dej Changchon
Senior Manager

ทะเบียนเลขที่ ว-323-ค-9442

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Analysis / Test Report

Client : Thai Polyethylene Co., Ltd.

88/4-5, Map Ta Phut Industrial Estate, Rayong - Highway 3191 Road, Map Ta Phut,
Mueang Rayong, Rayong Thailand 21150

P/O :

Project Name : Environmental Monitoring

Project Location: PP3

Lot ID: 232981

Date Received : Jan 10, 2023

Date Reported : Jan 23, 2023

Report Number : 2538702-2

Page 1 of 1

Sample Number	232981-1
Sampled Date	Jan 10, 2023 9:33 AM
Sample Description	Wastewater
Location	Inspection pit หลังผ่านบ่อ API ของโรงงาน PP3
Date Analysis Commenced	Jan 10, 2023
Condition of Sample	Contained in one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Flow rate	m3/hr	-	-	12.86	No Standard	Flow meter	Rayong

Guideline : Notification of the Industrial Estate Authority of Thailand No.76, B.E. 2560 : Criteria of wastewater characteristic from factory discharge to central wastewater Treatment Plant

Sampling By :

Remark :

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

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Approved by

N. Banchongkit

Narumon Banchongkit
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Analysis / Test Report

TESTING

No.0042

Lot ID: 2313526

Date Received : Feb 06, 2023

Date Reported : Feb 13, 2023

Report Number : 2559713-1

Client : Thai Polyethylene Co., Ltd.

88/4-5, Map Ta Phut Industrial Estate, Rayong - Highway 3191 Road, Map Ta Phut,
Mueang Rayong, Rayong Thailand 21150

P/O :

Project Name : Environmental Monitoring

Project Location: PP3

Page 1 of 2

Sample Number	2313526-1
Sampled Date	Feb 06, 2023 10:15 AM
Sample Description	Wastewater
Location	Inspection pit หลังผ่านบ่อ API ของโรงงาน PP3
Date Analysis Commenced	Feb 06, 2023
Condition of Sample	Contained in one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	38.1	≤500	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B	Rayong
COD	mg/L	1.5	25	83	≤750	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	≤600	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	≤600	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2120 F	Rayong
Oil & Grease *	mg/L	-	3	4	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
pH at 25 degree C *		-	-	7.4	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	-	-	32.7	≤45	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	12	≤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	7	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

Technical Management

N. Banchongkit

Narumon Banchongkit
Supervisor

ทะเบียนเลขที่ 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.

88/4-5, Map Ta Phut Industrial Estate, Rayong - Highway 3191 Road, Map Ta Phut,
Mueang Rayong, Rayong Thailand 21150

P/O :

Project Name : Environmental Monitoring

Project Location: PP3

TESTING

No.0042

Lot ID: 2313526

Date Received : Feb 06, 2023

Date Reported : Feb 13, 2023

Report Number : 2559713-1

Page 2 of 2

Guideline : Notification of the Industrial Estate Authority of Thailand No.76, B.E. 2560 : Criteria of wastewater characteristic from factory discharge to central wastewater Treatment Plant

Sampling By : Pathompong Kornswat ทะเบียนเลขที่ ว-323-จ-9468

Remark :

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

N. Banchongkit

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ทะเบียนเลขที่ ว-323-จ-9445

Approved by

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Dej Changchon
Senior Manager

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Client : Thai Polyethylene Co., Ltd.

88/4-5, Map Ta Phut Industrial Estate, Rayong - Highway 3191 Road, Map Ta Phut,
Mueang Rayong, Rayong Thailand 21150

P/O :

Project Name : Environmental Monitoring

Project Location: PP3

Lot ID: 2313526

Date Received : Feb 06, 2023

Date Reported : Feb 13, 2023

Report Number : 2559713-2

Page 1 of 1

Sample Number	2313526-1						
Sampled Date	Feb 06, 2023 10:15 AM						
Sample Description	Wastewater						
Location	Inspection pit หลังผ่านบ่อ API ของโรงงาน PP3						
Date Analysis Commenced	Feb 06, 2023						
Condition of Sample	Contained in one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Flow rate	m3/hr	-	-	14	No Standard	Flow meter	Rayong

Guideline : Notification of the Industrial Estate Authority of Thailand No.76, B.E. 2560 : Criteria of wastewater characteristic from factory discharge to central wastewater Treatment Plant

Sampling By : Pathompong Kornawat

Remark :

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

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Analysis / Test Report

TESTING

No.0042

Lot ID: 2323756

Date Received : Mar 07, 2023

Date Reported : Mar 14, 2023

Report Number : 2582201-1

Client : Thai Polyethylene Co., Ltd.

88/4-5, Map Ta Phut Industrial Estate, Rayong - Highway 3191 Road, Map Ta Phut,
Mueang Rayong, Rayong Thailand 21150

P/O : PMM-23-11

Project Name : Environmental Monitoring

Project Location: PP3

Page 1 of 2

Sample Number	2323756-1
Sampled Date	Mar 07, 2023 9:50 AM
Sample Description	Wastewater
Location	Inspection pit หลังผ่านบ่อ API ของโรงงาน PP3
Date Analysis Commenced	Mar 07, 2023
Condition of Sample	Contained in one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	5.3	≤500	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B	Rayong
COD	mg/L	1.5	25	29	≤750	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	14	≤600	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2120 F	Rayong
Color (at pH 7.0)	ADMI	-	5	15	≤600	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	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
pH at 25 degree C *		-	-	6.7	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	-	-	35.1	≤45	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	9	≤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	<5	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

Technical Management

N. Banchongkit

Narumon Banchongkit
Supervisor

ทะเบียนเลขที่ 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.

88/4-5, Map Ta Phut Industrial Estate, Rayong - Highway 3191 Road, Map Ta Phut,
Mueang Rayong, Rayong Thailand 21150

P/O : PMM-23-11

Project Name : Environmental Monitoring

Project Location: PP3

TESTING

No.0042

Lot ID: 2323756

Date Received : Mar 07, 2023

Date Reported : Mar 14, 2023

Report Number : 2582201-1

Page 2 of 2

Guideline : Notification of the Industrial Estate Authority of Thailand No.76, B.E. 2560 : Criteria of wastewater characteristic from factory discharge to central wastewater Treatment Plant

Sampling By : Pathompong Kornasawat ทะเบียนเลขที่ ว-323-จ-9468

Remark :

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Technical Management

N. Banchongkit

Narumon Banchongkit
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ทะเบียนเลขที่ ว-323-จ-9445

Approved by

D. Changchon

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Client : Thai Polyethylene Co., Ltd.

88/4-5, Map Ta Phut Industrial Estate, Rayong - Highway 3191 Road, Map Ta Phut,
Mueang Rayong, Rayong Thailand 21150

P/O : PMM-23-11

Project Name : Environmental Monitoring

Project Location: PP3

Lot ID: 2323756

Date Received : Mar 07, 2023

Date Reported : Mar 14, 2023

Report Number : 2582201-2

Page 1 of 1

Sample Number	2323756-1					
Sampled Date	Mar 07, 2023 9:50 AM					
Sample Description	Wastewater					
Location	Inspection pit หลังผ่านบ่อ API ของโรงงาน PP3					
Date Analysis Commenced	Mar 07, 2023					
Condition of Sample	Contained in one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)					

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Flow rate	m3/hr	-	-	14	No Standard	Flow meter	Rayong

Guideline : Notification of the Industrial Estate Authority of Thailand No.76, B.E. 2560 : Criteria of wastewater characteristic from factory discharge to central wastewater Treatment Plant

Sampling By : Pathompong Kornawat

Remark :

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

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Analysis / Test Report

TESTING

No.0042

Lot ID: 2336563

Date Received : Apr 24, 2023

Date Reported : Apr 29, 2023

Report Number : 2610346-1

Client : Thai Polyethylene Co., Ltd.

88/4-5, Map Ta Phut Industrial Estate, Rayong - Highway 3191 Road, Map Ta Phut,
Mueang Rayong, Rayong Thailand 21150

P/O : PMM-23-11

Project Name : Environmental Monitoring

Project Location: PP3

Page 1 of 2

Sample Number	2336563-1
Sampled Date	Apr 24, 2023 9:29 AM
Sample Description	Wastewater
Location	Inspection pit หลังผ่านบ่อ API ของโรงงาน PP3
Date Analysis Commenced	Apr 24, 2023
Condition of Sample	Contained in one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	31.7	≤500	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B	Rayong
COD	mg/L	1.5	25	152	≤750	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	≤600	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	≤600	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2120 F	Rayong
Oil & Grease *	mg/L	-	3	6	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
pH at 25 degree C *		-	-	7.6	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	-	-	37.8	≤45	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	14	≤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	<5	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

Technical Management

N. Banchongkit

Narumon Banchongkit
Supervisor

ทะเบียนเลขที่ 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.

88/4-5, Map Ta Phut Industrial Estate, Rayong - Highway 3191 Road, Map Ta Phut,
Mueang Rayong, Rayong Thailand 21150

P/O : PMM-23-11

Project Name : Environmental Monitoring

Project Location: PP3

TESTING

No.0042

Lot ID: 2336563

Date Received : Apr 24, 2023

Date Reported : Apr 29, 2023

Report Number : 2610346-1

Page 2 of 2

Guideline : Notification of the Industrial Estate Authority of Thailand No.76, B.E. 2560 : Criteria of wastewater characteristic from factory discharge to central wastewater Treatment Plant

Sampling By : Chainusorn Lertnanthakunchai ทะเบียนเลขที่ ว-323-จ-9461

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.

88/4-5, Map Ta Phut Industrial Estate, Rayong - Highway 3191 Road, Map Ta Phut,
Mueang Rayong, Rayong Thailand 21150

P/O : PMM-23-11

Project Name : Environmental Monitoring

Project Location: PP3

Lot ID: 2336563

Date Received : Apr 24, 2023

Date Reported : Apr 29, 2023

Report Number : 2610346-2

Page 1 of 1

Sample Number	2336563-1					
Sampled Date	Apr 24, 2023 9:29 AM					
Sample Description	Wastewater					
Location	Inspection pit หลังผ่านบ่อ API ของโรงงาน PP3					
Date Analysis Commenced	Apr 24, 2023					
Condition of Sample	Contained in one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)					

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Flow rate	m3/hr	-	-	13.3	No Standard	Flow meter	Rayong

Guideline : Notification of the Industrial Estate Authority of Thailand No.76, B.E. 2560 : Criteria of wastewater characteristic from factory discharge to central wastewater Treatment Plant

Sampling By : Chainusorn Lertnanthakunchai

Remark :

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

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Analysis / Test Report

TESTING

No.0042

Lot ID: 2347832

Date Received : May 09, 2023

Date Reported : May 16, 2023

Report Number : 2635608-1

Client : Thai Polyethylene Co., Ltd.

88/4-5, Map Ta Phut Industrial Estate, Rayong - Highway 3191 Road, Map Ta Phut,
Mueang Rayong, Rayong Thailand 21150

P/O : PMM-23-11

Project Name : Environmental Monitoring

Project Location: PP3

Page 1 of 2

Sample Number	2347832-1
Sampled Date	May 09, 2023 9:28 AM
Sample Description	Wastewater
Location	Inspection pit หลังผ่านบ่อ API ของโรงงาน PP3
Date Analysis Commenced	May 09, 2023
Condition of Sample	Contained in one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	17.9	≤500	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B	Rayong
COD	mg/L	1.5	25	87	≤750	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	≤600	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	≤600	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2120 F	Rayong
Oil & Grease *	mg/L	-	3	4	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
pH at 25 degree C *		-	-	7.0	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	-	-	37.5	≤45	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	12	≤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	15	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

Technical Management

N. Banchongkit

Narumon Banchongkit
Supervisor

ทะเบียนเลขที่ ว-323-จ-9445

Approved by

D. Changchon

Dej Changchon
Senior Manager

ทะเบียนเลขที่ ว-323-ค-9442

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Analysis / Test Report

TESTING

No.0042

Lot ID: 2347832

Date Received : May 09, 2023

Date Reported : May 16, 2023

Report Number : 2635608-1

Client : Thai Polyethylene Co., Ltd.

88/4-5, Map Ta Phut Industrial Estate, Rayong - Highway 3191 Road, Map Ta Phut,
Mueang Rayong, Rayong Thailand 21150

P/O : PMM-23-11

Project Name : Environmental Monitoring

Project Location: PP3

Page 2 of 2

Guideline : Notification of the Industrial Estate Authority of Thailand No.76, B.E. 2560 : Criteria of wastewater characteristic from factory discharge to central wastewater Treatment Plant

Sampling By : Wanlop Hunchainaow ทะเบียนเลขที่ ว-323-จ-9457

Remark :

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

N. Banchongkit

Narumon Banchongkit
Supervisor

ทะเบียนเลขที่ ว-323-จ-9445

Approved by

D. Changchon

Dej Changchon
Senior Manager

ทะเบียนเลขที่ ว-323-ค-9442

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Analysis / Test Report

Client : Thai Polyethylene Co., Ltd.

88/4-5, Map Ta Phut Industrial Estate, Rayong - Highway 3191 Road, Map Ta Phut,
Mueang Rayong, Rayong Thailand 21150

P/O : PMM-23-11

Project Name : Environmental Monitoring

Project Location: PP3

Lot ID: 2347832

Date Received : May 09, 2023

Date Reported : May 16, 2023

Report Number : 2635608-2

Page 1 of 1

Sample Number	2347832-1						
Sampled Date	May 09, 2023 9:28 AM						
Sample Description	Wastewater						
Location	Inspection pit หลังผ่านบ่อ API ของโรงงาน PP3						
Date Analysis Commenced	May 09, 2023						
Condition of Sample	Contained in one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Flow rate	m3/hr	-	-	13.0	No Standard	Flow meter	Rayong

Guideline : Notification of the Industrial Estate Authority of Thailand No.76, B.E. 2560 : Criteria of wastewater characteristic from factory discharge to central wastewater Treatment Plant

Sampling By : Wanlop Hunchainaow

Remark :

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

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N. Banchongkit

Narumon Banchongkit
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Analysis / Test Report

TESTING

No.0042

Lot ID: 2356044

Date Received : Jun 06, 2023

Date Reported : Jun 13, 2023

Report Number : 2653828-1

Client : Thai Polyethylene Co., Ltd.

88/4-5, Map Ta Phut Industrial Estate, Rayong - Highway 3191 Road, Map Ta Phut,
Mueang Rayong, Rayong Thailand 21150

P/O : PMM-23-11

Project Name : Environmental Monitoring

Project Location: PP3

Page 1 of 2

Sample Number	2356044-1
Sampled Date	Jun 06, 2023 10:18 AM
Sample Description	Wastewater
Location	Inspection pit หลังผ่านบ่อ API ของโรงงาน PP3
Date Analysis Commenced	Jun 06, 2023
Condition of Sample	Contained in one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	88.7	≤500	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	211	≤750	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	13	≤600	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2120 F	Rayong
Color (at pH 7.0)	ADMI	-	5	10	≤600	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	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
pH at 25 degree C *		-	-	7.3	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	-	-	33.9	≤45	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	30	≤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	39	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

Technical Management

N. Banchongkit

Narumon Banchongkit
Supervisor

ทะเบียนเลขที่ ว-323-จ-9445

Approved by

D. Changchon

Dej Changchon
Senior Manager

ทะเบียนเลขที่ ว-323-ค-9442

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Analysis / Test Report

TESTING

No.0042

Lot ID: 2356044

Date Received : Jun 06, 2023

Date Reported : Jun 13, 2023

Report Number : 2653828-1

Client : Thai Polyethylene Co., Ltd.

88/4-5, Map Ta Phut Industrial Estate, Rayong - Highway 3191 Road, Map Ta Phut,
Mueang Rayong, Rayong Thailand 21150

P/O : PMM-23-11

Project Name : Environmental Monitoring

Project Location: PP3

Page 2 of 2

Guideline : Notification of the Industrial Estate Authority of Thailand No.76, B.E. 2560 : Criteria of wastewater characteristic from factory discharge to central wastewater Treatment Plant

Sampling By : Wanlop Hunchainaow ทะเบียนเลขที่ ว-323-จ-9457

Remark :

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

N. Banchongkit

Narumon Banchongkit
Supervisor

ทะเบียนเลขที่ ว-323-จ-9445

Approved by

D. Changchon

Dej Changchon
Senior Manager

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Client : Thai Polyethylene Co., Ltd.

88/4-5, Map Ta Phut Industrial Estate, Rayong - Highway 3191 Road, Map Ta Phut,
Mueang Rayong, Rayong Thailand 21150

P/O : PMM-23-11

Project Name : Environmental Monitoring

Project Location: PP3

Lot ID: 2356044

Date Received : Jun 06, 2023

Date Reported : Jun 13, 2023

Report Number : 2653828-2

Page 1 of 1

Sample Number	2356044-1
Sampled Date	Jun 06, 2023 10:18 AM
Sample Description	Wastewater
Location	Inspection pit หลังผ่านบ่อ API ของโรงงาน PP3
Date Analysis Commenced	Jun 06, 2023
Condition of Sample	Contained in one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Flow rate	m3/hr	-	-	11.00	No Standard	Flow meter	Rayong

Guideline : Notification of the Industrial Estate Authority of Thailand No.76, B.E. 2560 : Criteria of wastewater characteristic from factory discharge to central wastewater Treatment Plant

Sampling By : Wanlop Hunchainaow

Remark :

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

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คุณภาพน้ำทิ้ง ของโรงงาน HDPE4



Analysis / Test Report

TESTING
No.0042

Client : Thai Polyethylene Co., Ltd.

88/4-5, Map Ta Phut Industrial Estate, Rayong - Highway 3191 Road, Map Ta Phut,
Mueang Rayong, Rayong Thailand 21150

P/O :

Project Name : Environmental Monitoring

Project Location: HD 4

Lot ID: 233051

Date Received : Jan 10, 2023

Date Reported : Jan 23, 2023

Report Number : 2538750-1

Page 1 of 2

Sample Number	233051-1
Sampled Date	Jan 10, 2023 10:08 AM
Sample Description	Wastewater
Location	Inspection pit หลังผ่านบ่อ API ของโรงงาน HDPE4
Date Analysis Commenced	Jan 10, 2023
Condition of Sample	Contained in one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	2.7	≤500	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B	Rayong
COD	mg/L	1.5	25	41	≤750	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	≤600	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	≤600	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	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
pH at 25 degree C *		-	-	7.1	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	-	-	35.8	≤45	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	1370	≤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	9	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

Technical Management

N. Banchongkit

Narumon Banchongkit
Supervisor

ทะเบียนเลขที่ ว-323-จ-9445

Approved by

D. Changchon

Dej Changchon
Senior Manager

ทะเบียนเลขที่ ว-323-ค-9442

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Analysis / Test Report

TESTING
No.0042

Client : Thai Polyethylene Co., Ltd.

88/4-5, Map Ta Phut Industrial Estate, Rayong - Highway 3191 Road, Map Ta Phut,
Mueang Rayong, Rayong Thailand 21150

P/O :

Project Name : Environmental Monitoring

Project Location: HD 4

Lot ID: 233051

Date Received : Jan 10, 2023

Date Reported : Jan 23, 2023

Report Number : 2538750-1

Page 2 of 2

Guideline : Notification of the Industrial Estate Authority of Thailand No.76, B.E. 2560 : Criteria of wastewater characteristic from factory discharge to central wastewater Treatment Plant

Sampling By : Chainusorn Lertnanthakunchai ทะเบียนเลขที่ ว-323-จ-9461

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.

88/4-5, Map Ta Phut Industrial Estate, Rayong - Highway 3191 Road, Map Ta Phut,
Mueang Rayong, Rayong Thailand 21150

P/O :

Project Name : Environmental Monitoring

Project Location: HD 4

Lot ID: 233051

Date Received : Jan 10, 2023

Date Reported : Jan 23, 2023

Report Number : 2538750-2

Page 1 of 1

Sample Number	233051-1
Sampled Date	Jan 10, 2023 10:08 AM
Sample Description	Wastewater
Location	Inspection pit หลังผ่านบ่อ API ของโรงงาน HDPE4
Date Analysis Commenced	Jan 10, 2023
Condition of Sample	Contained in one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Flow rate	m3/hr	-	-	10.80	No Standard	Flow meter	Rayong

Guideline : Notification of the Industrial Estate Authority of Thailand No.76, B.E. 2560 : Criteria of wastewater characteristic from factory discharge to central wastewater Treatment Plant

Sampling By :

Remark :

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

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Analysis / Test Report

TESTING

No.0042

Lot ID: 2313525

Date Received : Feb 06, 2023

Date Reported : Feb 13, 2023

Report Number : 2559698-1

Client : Thai Polyethylene Co., Ltd.

88/4-5, Map Ta Phut Industrial Estate, Rayong - Highway 3191 Road, Map Ta Phut,
Mueang Rayong, Rayong Thailand 21150

P/O :

Project Name : Environmental Monitoring

Project Location: HD 4

Page 1 of 2

Sample Number	2313525-1
Sampled Date	Feb 06, 2023 9:15 AM
Sample Description	Wastewater
Location	Inspection pit หลังผ่านบ่อ API ของโรงงาน HDPE4
Date Analysis Commenced	Feb 06, 2023
Condition of Sample	Contained in one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	6.5	≤500	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B	Rayong
COD	mg/L	1.5	25	77	≤750	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	36	≤600	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	36	≤600	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2120 F	Rayong
Oil & Grease *	mg/L	-	3	4	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
pH at 25 degree C *		-	-	7.1	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	-	-	36.3	≤45	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	2300	≤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	19	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

Technical Management

N. Banchongkit

Narumon Banchongkit
Supervisor

ทะเบียนเลขที่ 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.

88/4-5, Map Ta Phut Industrial Estate, Rayong - Highway 3191 Road, Map Ta Phut,
Mueang Rayong, Rayong Thailand 21150

P/O :

Project Name : Environmental Monitoring

Project Location: HD 4

TESTING

No.0042

Lot ID: 2313525

Date Received : Feb 06, 2023

Date Reported : Feb 13, 2023

Report Number : 2559698-1

Page 2 of 2

Guideline : Notification of the Industrial Estate Authority of Thailand No.76, B.E. 2560 : Criteria of wastewater characteristic from factory discharge to central wastewater Treatment Plant

Sampling By : Pathompong Kornswat ทะเบียนเลขที่ ว-323-จ-9468

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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Client : Thai Polyethylene Co., Ltd.

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Mueang Rayong, Rayong Thailand 21150

P/O :

Project Name : Environmental Monitoring

Project Location: HD 4

Lot ID: 2313525

Date Received : Feb 06, 2023

Date Reported : Feb 13, 2023

Report Number : 2559698-2

Page 1 of 1

Sample Number	2313525-1
Sampled Date	Feb 06, 2023 9:15 AM
Sample Description	Wastewater
Location	Inspection pit หลังผ่านบ่อ API ของโรงงาน HDPE4
Date Analysis Commenced	Feb 06, 2023
Condition of Sample	Contained in one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Flow rate	m3/hr	-	-	25	No Standard	Flow meter	Rayong

Guideline : Notification of the Industrial Estate Authority of Thailand No.76, B.E. 2560 : Criteria of wastewater characteristic from factory discharge to central wastewater Treatment Plant

Sampling By : Pathompong Kornawat

Remark :

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

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Approved by

N. Banchongkit

Narumon Banchongkit
Supervisor

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Analysis / Test Report

TESTING

No.0042

Lot ID: 2323757

Date Received : Mar 07, 2023

Date Reported : Mar 14, 2023

Report Number : 2582206-1

Client : Thai Polyethylene Co., Ltd.

88/4-5, Map Ta Phut Industrial Estate, Rayong - Highway 3191 Road, Map Ta Phut,
Mueang Rayong, Rayong Thailand 21150

P/O : PMM-23-11

Project Name : Environmental Monitoring

Project Location: HD 4

Page 1 of 2

Sample Number	2323757-1
Sampled Date	Mar 07, 2023 10:25 AM
Sample Description	Wastewater
Location	Inspection pit หลังผ่านบ่อ API ของโรงงาน HDPE4
Date Analysis Commenced	Mar 07, 2023
Condition of Sample	Contained in one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	9.8	≤500	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B	Rayong
COD	mg/L	1.5	25	70	≤750	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	21	≤600	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	20	≤600	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	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
pH at 25 degree C *		-	-	7.2	5.5-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	35.9	≤45	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	2120	≤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	25	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

Technical Management

N. Banchongkit

Narumon Banchongkit
Supervisor

ทะเบียนเลขที่ 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.

88/4-5, Map Ta Phut Industrial Estate, Rayong - Highway 3191 Road, Map Ta Phut,
Mueang Rayong, Rayong Thailand 21150

P/O : PMM-23-11

Project Name : Environmental Monitoring

Project Location: HD 4

TESTING

No.0042

Lot ID: 2323757

Date Received : Mar 07, 2023

Date Reported : Mar 14, 2023

Report Number : 2582206-1

Page 2 of 2

Guideline : Notification of the Industrial Estate Authority of Thailand No.76, B.E. 2560 : Criteria of wastewater characteristic from factory discharge to central wastewater Treatment Plant

Sampling By : Pathompong Kornswat ทะเบียนเลขที่ ว-323-จ-9468

Remark :

- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
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- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

N. Banchongkit

Narumon Banchongkit
Supervisor

ทะเบียนเลขที่ ว-323-จ-9445

Approved by

D. Changchon

Dej Changchon
Senior Manager

ทะเบียนเลขที่ ว-323-ค-9442

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Analysis / Test Report

Client : Thai Polyethylene Co., Ltd.

88/4-5, Map Ta Phut Industrial Estate, Rayong - Highway 3191 Road, Map Ta Phut,
Mueang Rayong, Rayong Thailand 21150

P/O : PMM-23-11

Project Name : Environmental Monitoring

Project Location: HD 4

Lot ID: 2323757

Date Received : Mar 07, 2023

Date Reported : Mar 14, 2023

Report Number : 2582206-2

Page 1 of 1

Sample Number	2323757-1
Sampled Date	Mar 07, 2023 10:25 AM
Sample Description	Wastewater
Location	Inspection pit หลังผ่านบ่อ API ของโรงงาน HDPE4
Date Analysis Commenced	Mar 07, 2023
Condition of Sample	Contained in one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Flow rate	m3/hr	-	-	11	No Standard	Flow meter	Rayong

Guideline : Notification of the Industrial Estate Authority of Thailand No.76, B.E. 2560 : Criteria of wastewater characteristic from factory discharge to central wastewater Treatment Plant

Sampling By : Pathompong Kornawat

Remark :

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

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Analysis / Test Report

TESTING

No.0042

Lot ID: 2336565

Date Received : Apr 20, 2023

Date Reported : Apr 27, 2023

Report Number : 2610349-1

Client : Thai Polyethylene Co., Ltd.

88/4-5, Map Ta Phut Industrial Estate, Rayong - Highway 3191 Road, Map Ta Phut,
Mueang Rayong, Rayong Thailand 21150

P/O : PMM-23-11

Project Name : Environmental Monitoring

Project Location: HD 4

Page 1 of 2

Sample Number	2336565-1
Sampled Date	Apr 20, 2023 10:00 AM
Sample Description	Wastewater
Location	Inspection pit หลังผ่านบ่อ API ของโรงงาน HDPE4
Date Analysis Commenced	Apr 20, 2023
Condition of Sample	Contained in one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	3.4	≤500	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B	Rayong
COD	mg/L	1.5	25	60	≤750	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	13	≤600	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	12	≤600	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	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
pH at 25 degree C *		-	-	7.4	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	-	-	37.1	≤45	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	2080	≤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	45	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

Technical Management

N. Banchongkit

Narumon Banchongkit
Supervisor

ทะเบียนเลขที่ ว-323-จ-9445

Approved by

D. Changchon

Dej Changchon
Senior Manager

ทะเบียนเลขที่ ว-323-ค-9442

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Analysis / Test Report

TESTING
No.0042

Lot ID: 2336565

Date Received : Apr 20, 2023

Date Reported : Apr 27, 2023

Report Number : 2610349-1

Client : Thai Polyethylene Co., Ltd.

88/4-5, Map Ta Phut Industrial Estate, Rayong - Highway 3191 Road, Map Ta Phut,
Mueang Rayong, Rayong Thailand 21150

P/O : PMM-23-11

Project Name : Environmental Monitoring

Project Location: HD 4

Page 2 of 2

Guideline : Notification of the Industrial Estate Authority of Thailand No.76, B.E. 2560 : Criteria of wastewater characteristic from factory discharge to central wastewater Treatment Plant

Sampling By : Wanlop Hunchainaow ทะเบียนเลขที่ ว-323-จ-9457

Remark :

- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
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- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

N. Banchongkit

Narumon Banchongkit
Supervisor

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Approved by

D. Changchon

Dej Changchon
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Client : Thai Polyethylene Co., Ltd.

88/4-5, Map Ta Phut Industrial Estate, Rayong - Highway 3191 Road, Map Ta Phut,
Mueang Rayong, Rayong Thailand 21150

P/O : PMM-23-11

Project Name : Environmental Monitoring

Project Location: HD 4

Lot ID: 2336565

Date Received : Apr 20, 2023

Date Reported : Apr 27, 2023

Report Number : 2610349-2

Page 1 of 1

Sample Number	2336565-1					
Sampled Date	Apr 20, 2023 10:00 AM					
Sample Description	Wastewater					
Location	Inspection pit หลังผ่านบ่อ API ของโรงงาน HDPE4					
Date Analysis Commenced	Apr 20, 2023					
Condition of Sample	Contained in one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)					

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Flow rate	m3/s	-	-	17.0	No Standard	Flow meter	Rayong

Guideline : Notification of the Industrial Estate Authority of Thailand No.76, B.E. 2560 : Criteria of wastewater characteristic from factory discharge to central wastewater Treatment Plant

Sampling By : Wanlop Hunchainaow

Remark :

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

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Analysis / Test Report

TESTING

No.0042

Lot ID: 2347835

Date Received : May 09, 2023

Date Reported : May 16, 2023

Report Number : 2635614-1

Client : Thai Polyethylene Co., Ltd.

88/4-5, Map Ta Phut Industrial Estate, Rayong - Highway 3191 Road, Map Ta Phut,
Mueang Rayong, Rayong Thailand 21150

P/O : PMM-23-11

Project Name : Environmental Monitoring

Project Location: HD 4

Page 1 of 2

Sample Number	2347835-1
Sampled Date	May 09, 2023 9:41 AM
Sample Description	Wastewater
Location	Inspection pit หลังผ่านบ่อ API ของโรงงาน HDPE4
Date Analysis Commenced	May 09, 2023
Condition of Sample	Contained in one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	4.1	≤500	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B	Rayong
COD	mg/L	1.5	25	80	≤750	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	15	≤600	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	14	≤600	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	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
pH at 25 degree C *		-	-	7.2	5.5-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	38.6	≤45	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	2250	≤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	9	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

Technical Management

N. Banchongkit

Narumon Banchongkit
Supervisor

ทะเบียนเลขที่ ว-323-จ-9445

Approved by

D. Changchon

Dej Changchon
Senior Manager

ทะเบียนเลขที่ ว-323-ค-9442

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Analysis / Test Report

TESTING

No.0042

Lot ID: 2347835

Date Received : May 09, 2023

Date Reported : May 16, 2023

Report Number : 2635614-1

Client : Thai Polyethylene Co., Ltd.

88/4-5, Map Ta Phut Industrial Estate, Rayong - Highway 3191 Road, Map Ta Phut,
Mueang Rayong, Rayong Thailand 21150

P/O : PMM-23-11

Project Name : Environmental Monitoring

Project Location: HD 4

Page 2 of 2

Guideline : Notification of the Industrial Estate Authority of Thailand No.76, B.E. 2560 : Criteria of wastewater characteristic from factory discharge to central wastewater Treatment Plant

Sampling By : Wanlop Hunchainaow ทะเบียนเลขที่ ว-323-จ-9457

Remark :

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

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Narumon Banchongkit
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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.

88/4-5, Map Ta Phut Industrial Estate, Rayong - Highway 3191 Road, Map Ta Phut,
Mueang Rayong, Rayong Thailand 21150

P/O : PMM-23-11

Project Name : Environmental Monitoring

Project Location: HD 4

Lot ID: 2347835

Date Received : May 09, 2023

Date Reported : May 16, 2023

Report Number : 2635614-2

Page 1 of 1

Sample Number	2347835-1					
Sampled Date	May 09, 2023 9:41 AM					
Sample Description	Wastewater					
Location	Inspection pit หลังผ่านบ่อ API ของโรงงาน HDPE4					
Date Analysis Commenced	May 09, 2023					
Condition of Sample	Contained in one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)					

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Flow rate	m3/hr	-	-	23.0	No Standard	Flow meter	Rayong

Guideline : Notification of the Industrial Estate Authority of Thailand No.76, B.E. 2560 : Criteria of wastewater characteristic from factory discharge to central wastewater Treatment Plant

Sampling By : Wanlop Hunchainaow

Remark :

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

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Analysis / Test Report

TESTING

No.0042

Lot ID: 2356050

Date Received : Jun 06, 2023

Date Reported : Jun 13, 2023

Report Number : 2653832-1

Client : Thai Polyethylene Co., Ltd.

88/4-5, Map Ta Phut Industrial Estate, Rayong - Highway 3191 Road, Map Ta Phut,
Mueang Rayong, Rayong Thailand 21150

P/O : PMM-23-11

Project Name : Environmental Monitoring

Project Location: HD 4

Page 1 of 2

Sample Number	2356050-1
Sampled Date	Jun 06, 2023 10:32 AM
Sample Description	Wastewater
Location	Inspection pit หลังผ่านบ่อ API ของโรงงาน HDPE4
Date Analysis Commenced	Jun 06, 2023
Condition of Sample	Contained in one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	7.3	≤500	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	88	≤750	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	18	≤600	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	17	≤600	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	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
pH at 25 degree C *		-	-	6.6	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	-	-	36.3	≤45	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	1580	≤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	20	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

Technical Management

N. Banchongkit

Narumon Banchongkit
Supervisor

ทะเบียนเลขที่ ว-323-จ-9445

Approved by

D. Changchon

Dej Changchon
Senior Manager

ทะเบียนเลขที่ ว-323-ค-9442

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Analysis / Test Report

TESTING
No.0042

Lot ID: 2356050

Date Received : Jun 06, 2023

Date Reported : Jun 13, 2023

Report Number : 2653832-1

Client : Thai Polyethylene Co., Ltd.

88/4-5, Map Ta Phut Industrial Estate, Rayong - Highway 3191 Road, Map Ta Phut,
Mueang Rayong, Rayong Thailand 21150

P/O : PMM-23-11

Project Name : Environmental Monitoring

Project Location: HD 4

Page 2 of 2

Guideline : Notification of the Industrial Estate Authority of Thailand No.76, B.E. 2560 : Criteria of wastewater characteristic from factory discharge to central wastewater Treatment Plant

Sampling By : Wanlop Hunchainaow ทะเบียนเลขที่ ว-323-จ-9457

Remark :

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

Technical Management

N. Banchongkit

Narumon Banchongkit
Supervisor

ทะเบียนเลขที่ ว-323-จ-9445

Approved by

D. Changchon

Dej Changchon
Senior Manager

ทะเบียนเลขที่ ว-323-ค-9442

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Analysis / Test Report

Client : Thai Polyethylene Co., Ltd.

88/4-5, Map Ta Phut Industrial Estate, Rayong - Highway 3191 Road, Map Ta Phut,
Mueang Rayong, Rayong Thailand 21150

P/O : PMM-23-11

Project Name : Environmental Monitoring

Project Location: HD 4

Lot ID: 2356050

Date Received : Jun 06, 2023

Date Reported : Jun 13, 2023

Report Number : 2653832-2

Page 1 of 1

Sample Number	2356050-1					
Sampled Date	Jun 06, 2023 10:32 AM					
Sample Description	Wastewater					
Location	Inspection pit หลังผ่านบ่อ API ของโรงงาน HDPE4					
Date Analysis Commenced	Jun 06, 2023					
Condition of Sample	Contained in one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)					

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Flow rate	m3/hr	-	-	25.00	No Standard	Flow meter	Rayong

Guideline : Notification of the Industrial Estate Authority of Thailand No.76, B.E. 2560 : Criteria of wastewater characteristic from factory discharge to central wastewater Treatment Plant

Sampling By : Wanlop Hunchainaow

Remark :

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

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Approved by

N. Banchongkit

Narumon Banchongkit
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ภาคผนวก ค-4

คุณภาพน้ำใต้ดิน



Analysis / Test Report

Client : Thai Polyethylene Co., Ltd.

88/4-5, Map Ta Phut Industrial Estate, Rayong - Highway 3191 Road, Map Ta Phut,
Mueang Rayong, Rayong Thailand 21150

P/O : PMM-23-11

Project Name : Environmental Monitoring

Project Location: PP3

Lot ID: 2347833

Date Received : May 29, 2023

Date Reported : Jun 07, 2023

Report Number : 2674810-1

Page 1 of 1

Sample Number	2347833-1
Sampled Date	May 29, 2023 11:48 AM
Sample Description	Groundwater
Location	บ่อสังเกตการณ์ด้านทิศเหนือของโครงการฯ (S7-MW1-GA)
Date Analysis Commenced	May 29, 2023
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
Water Testing							
pH at 25 degree C		-	-	5.8	6.5-9.2 (I)	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 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): ในกรณีที่มีการปนเปื้อนของกรดหรือด่างให้เปรียบเทียบผลวิเคราะห์ค่าพีเอชจากจุดเก็บตัวอย่างบ่อน้ำที่ใช้ในการติดตามตรวจสอบการปนเปื้อนกับผลวิเคราะห์จากจุดเก็บตัวอย่างบ่อน้ำที่ใช่เป็นบ่ออ้างอิงบนทิศทางการไหลของน้ำใต้ดินในพื้นที่ โดยค่าพีเอชที่เปลี่ยนแปลงจะต้องไม่เกินหนึ่งระดับ และไม่อยู่นอกช่วงค่าเกณฑ์อนุโลมสูงสุดของมาตรฐานคุณภาพน้ำบาดาลที่ไซบริกคือ 6.5-9.2

Sampling By : Wanlop Hunchainaow ทะเบียนเลขที่ ว-323-จ-9457 , Samart Khumphlee ทะเบียนเลขที่ ว-204-จ-7830

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

TESTING

No.0009

Lot ID: 2347833

Date Received : May 29, 2023

Date Reported : Jun 07, 2023

Report Number : 2674810-2

Client : Thai Polyethylene Co., Ltd.

88/4-5, Map Ta Phut Industrial Estate, Rayong - Highway 3191 Road, Map Ta Phut,
Mueang Rayong, Rayong Thailand 21150

P/O : PMM-23-11

Project Name : Environmental Monitoring

Project Location: PP3

Page 1 of 1

Sample Number	2347833-1
Sampled Date	May 29, 2023 11:48 AM
Sample Description	Groundwater
Location	บ่อสังเกตการณ์ด้านทิศเหนือของโครงการฯ (S7-MW1-GA)
Date Analysis Commenced	May 30, 2023
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
Organic Compounds							
n-Hexane *	mg/L	-	0.001	<0.001	11	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 6200 B	Bangkok
Petroleum Hydrocarbons							
TPH C>16-C35	mg/L	-	0.05	<0.05	0.1	United States Environmental Protection Agency, EPA Method 3510 C and 8015 B	Bangkok
TPH C>8-C16	mg/L	-	0.05	<0.05	1.7	United States Environmental Protection Agency, EPA Method 3510 C and 8015 B	Bangkok
TPH C5-C8 *	mg/L	-	0.01	<0.01	1.4	United States Environmental Protection Agency, EPA Method 5030 B and 8260 D	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

Sampling By : Wanlop Hunchainaow ทะเบียนเลขที่ ว-323-จ-9457 , Samart Khumphlee ทะเบียนเลขที่ ว-204-จ-7830

Remark :

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Technical Management

Siriluk P.

Siriluk Puengpang

Supervisor

ทะเบียนเลขที่ ว-204-จ-4720

Approved by

Kanokkorn Anek

Senior Manager

ทะเบียนเลขที่ ว-204-ค-6111

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Analysis / Test Report

Client : Thai Polyethylene Co., Ltd.

88/4-5, Map Ta Phut Industrial Estate, Rayong - Highway 3191 Road, Map Ta Phut,
Mueang Rayong, Rayong Thailand 21150

P/O : PMM-23-11

Project Name : Environmental Monitoring

Project Location: PP3

Lot ID: 2347833

Date Received : May 29, 2023

Date Reported : Jun 07, 2023

Report Number : 2674811-1

Page 1 of 1

Sample Number	2347833-2
Sampled Date	May 29, 2023 11:06 AM
Sample Description	Groundwater
Location	บ่อสังเกตการณ์ด้านทิศตะวันตกของโครงการฯ (S7-MW4-PP3)
Date Analysis Commenced	May 29, 2023
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
Water Testing							
pH at 25 degree C		-	-	5.0	6.5-9.2 (I)	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 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): ในกรณีที่มีการปนเปื้อนของกรดหรือด่างให้เปรียบเทียบผลวิเคราะห์ค่าพีเอชจากจุดเก็บตัวอย่างบ่อน้ำที่ใช้ในการติดตามตรวจสอบการปนเปื้อนกับผลวิเคราะห์จากจุดเก็บตัวอย่างบ่อน้ำที่ใช่เป็นบ่ออ้างอิงบนทิศทางการไหลของน้ำใต้ดินในพื้นที่ โดยค่าพีเอชที่เปลี่ยนแปลงจะต้องไม่เกินหนึ่งระดับ และไม่อยู่นอกช่วงค่าเกณฑ์อนุโลมสูงสุดของมาตรฐานคุณภาพน้ำบาดาลที่ไขว้โรคคือ 6.5-9.2

Sampling By : Wanlop Hunchainaow ทะเบียนเลขที่ ว-323-จ-9457 , Samart Khumphlee ทะเบียนเลขที่ ว-204-จ-7830

Remark :

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

Technical Management

N. Banongkit

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

TESTING

No.0009

Lot ID: 2347833

Date Received : May 29, 2023

Date Reported : Jun 07, 2023

Report Number : 2674811-2

Client : Thai Polyethylene Co., Ltd.

88/4-5, Map Ta Phut Industrial Estate, Rayong - Highway 3191 Road, Map Ta Phut,
Mueang Rayong, Rayong Thailand 21150

P/O : PMM-23-11

Project Name : Environmental Monitoring

Project Location: PP3

Page 1 of 1

Sample Number	2347833-2						
Sampled Date	May 29, 2023 11:06 AM						
Sample Description	Groundwater						
Location	บ่อสังเกตการณ์ด้านทิศตะวันตกของโครงการฯ (S7-MW4-PP3)						
Date Analysis Commenced	May 30, 2023						
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
Organic Compounds							
n-Hexane *	mg/L	-	0.001	<0.001	11	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 6200 B	Bangkok
Petroleum Hydrocarbons							
TPH C>16-C35	mg/L	-	0.05	<0.05	0.1	United States Environmental Protection Agency, EPA Method 3510 C and 8015 B	Bangkok
TPH C>8-C16	mg/L	-	0.05	<0.05	1.7	United States Environmental Protection Agency, EPA Method 3510 C and 8015 B	Bangkok
TPH C5-C8 *	mg/L	-	0.01	<0.01	1.4	United States Environmental Protection Agency, EPA Method 5030 B and 8260 D	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

Sampling By : Wanlop Hunchainaow ทะเบียนเลขที่ ว-323-จ-9457 , Samart Khumphlee ทะเบียนเลขที่ ว-204-จ-7830

Remark :

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Technical Management

Siriluk P.

Siriluk Puengpang

Supervisor

ทะเบียนเลขที่ ว-204-จ-4720

Approved by

Kanokkorn Anek

Senior Manager

ทะเบียนเลขที่ ว-204-ค-6111

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Analysis / Test Report

Client : Thai Polyethylene Co., Ltd.

88/4-5, Map Ta Phut Industrial Estate, Rayong - Highway 3191 Road, Map Ta Phut,
Mueang Rayong, Rayong Thailand 21150

P/O : PMM-23-11

Project Name : Environmental Monitoring

Project Location: HD 4

Lot ID: 2347836

Date Received : May 29, 2023

Date Reported : Jun 07, 2023

Report Number : 2674812-1

Page 1 of 1

Sample Number	2347836-1
Sampled Date	May 29, 2023 10:26 AM
Sample Description	Groundwater
Location	บ่อสังเกตการณ์ด้านทิศใต้ของโครงการฯ (S7-MW2-HD4)
Date Analysis Commenced	May 29, 2023
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
Water Testing							
pH at 25 degree C		-	-	4.4	6.5-9.2 (I)	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 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): ในกรณีที่มีการปนเปื้อนของกรดหรือด่างให้เปรียบเทียบผลวิเคราะห์ค่าพีเอชจากจุดเก็บตัวอย่างบ่อน้ำที่ใช้ในการติดตามตรวจสอบการปนเปื้อนกับผลวิเคราะห์จากจุดเก็บตัวอย่างบ่อน้ำที่ใช่เป็นบ่ออ้างอิงบนทิศทางการไหลของน้ำใต้ดินในพื้นที่ โดยค่าพีเอชที่เปลี่ยนแปลงจะต้องไม่เกินหนึ่งระดับ และไม่อยู่นอกช่วงค่าเกณฑ์อนุโลมสูงสุดของมาตรฐานคุณภาพน้ำบาดาลที่ไขว้โรคคือ 6.5-9.2

Sampling By : Wanlop Hunchainaow ทะเบียนเลขที่ ว-323-จ-9457 , Samart Khumphlee ทะเบียนเลขที่ ว-204-จ-7830

Remark :

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- "<" : 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

TESTING

No.0009

Lot ID: 2347836

Date Received : May 29, 2023

Date Reported : Jun 07, 2023

Report Number : 2674812-2

Client : Thai Polyethylene Co., Ltd.

88/4-5, Map Ta Phut Industrial Estate, Rayong - Highway 3191 Road, Map Ta Phut,
Mueang Rayong, Rayong Thailand 21150

P/O : PMM-23-11

Project Name : Environmental Monitoring

Project Location: HD 4

Page 1 of 1

Sample Number	2347836-1
Sampled Date	May 29, 2023 10:26 AM
Sample Description	Groundwater
Location	บ่อสังเกตการณ์ด้านทิศใต้ของโครงการฯ (S7-MW2-HD4)
Date Analysis Commenced	May 30, 2023
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
Organic Compounds							
n-Hexane *	mg/L	-	0.001	<0.001	11	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 6200 B	Bangkok
Petroleum Hydrocarbons							
TPH C>16-C35	mg/L	-	0.05	<0.05	0.1	United States Environmental Protection Agency, EPA Method 3510 C and 8015 B	Bangkok
TPH C>8-C16	mg/L	-	0.05	<0.05	1.7	United States Environmental Protection Agency, EPA Method 3510 C and 8015 B	Bangkok
TPH C5-C8 *	mg/L	-	0.01	<0.01	1.4	United States Environmental Protection Agency, EPA Method 5030 B and 8260 D	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

Sampling By : Wanlop Hunchainaow ทะเบียนเลขที่ ว-323-จ-9457 , Samart Khumphlee ทะเบียนเลขที่ ว-204-จ-7830

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Technical Management

Siriluk P.

Siriluk Puengpang

Supervisor

ทะเบียนเลขที่ ว-204-จ-4720

Approved by

Kanokkorn Anek

Senior Manager

ทะเบียนเลขที่ ว-204-ค-6111

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Analysis / Test Report

Client : Thai Polyethylene Co., Ltd.

88/4-5, Map Ta Phut Industrial Estate, Rayong - Highway 3191 Road, Map Ta Phut,
Mueang Rayong, Rayong Thailand 21150

P/O : PMM-23-11

Project Name : Environmental Monitoring

Project Location: HD 4

Lot ID: 2347836

Date Received : May 29, 2023

Date Reported : Jun 07, 2023

Report Number : 2674813-1

Page 1 of 1

Sample Number	2347836-2
Sampled Date	May 29, 2023 9:58 AM
Sample Description	Groundwater
Location	บ่อสังเกตการณ์ด้านทิศตะวันออกของโครงการฯ (S7-MW3-HD4)
Date Analysis Commenced	May 29, 2023
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
Water Testing							
pH at 25 degree C		-	-	5.0	6.5-9.2 (I)	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 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): ในกรณีที่มีการปนเปื้อนของกรดหรือด่างให้เปรียบเทียบผลวิเคราะห์ค่าพีเอชจากจุดเก็บตัวอย่างบ่อน้ำที่ใช้ในการติดตามตรวจสอบการปนเปื้อนกับผลวิเคราะห์จากจุดเก็บตัวอย่างบ่อน้ำที่ใช่เป็นบ่ออ้างอิงบนทิศทางการไหลของน้ำใต้ดินในพื้นที่ โดยค่าพีเอชที่เปลี่ยนแปลงจะต้องไม่เกินหนึ่งระดับ และไม่อยู่นอกช่วงค่าเกณฑ์อนุโลมสูงสุดของมาตรฐานคุณภาพน้ำบาดาลที่ไขว้โรคคือ 6.5-9.2

Sampling By : Wanlop Hunchainaow ทะเบียนเลขที่ ว-323-จ-9457 , Samart Khumphlee ทะเบียนเลขที่ ว-204-จ-7830

Remark :

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

Technical Management

N. Banongkit

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

TESTING

No.0009

Lot ID: 2347836

Date Received : May 29, 2023

Date Reported : Jun 07, 2023

Report Number : 2674813-2

Client : Thai Polyethylene Co., Ltd.

88/4-5, Map Ta Phut Industrial Estate, Rayong - Highway 3191 Road, Map Ta Phut,
Mueang Rayong, Rayong Thailand 21150

P/O : PMM-23-11

Project Name : Environmental Monitoring

Project Location: HD 4

Page 1 of 1

Sample Number	2347836-2						
Sampled Date	May 29, 2023 9:58 AM						
Sample Description	Groundwater						
Location	บ่อสังเกตการณ์ด้านทิศตะวันออกของโครงการฯ (S7-MW3-HD4)						
Date Analysis Commenced	May 30, 2023						
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
Organic Compounds							
n-Hexane *	mg/L	-	0.001	<0.001	11	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 6200 B	Bangkok
Petroleum Hydrocarbons							
TPH C>16-C35	mg/L	-	0.05	<0.05	0.1	United States Environmental Protection Agency, EPA Method 3510 C and 8015 B	Bangkok
TPH C>8-C16	mg/L	-	0.05	<0.05	1.7	United States Environmental Protection Agency, EPA Method 3510 C and 8015 B	Bangkok
TPH C5-C8 *	mg/L	-	0.01	<0.01	1.4	United States Environmental Protection Agency, EPA Method 5030 B and 8260 D	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

Sampling By : Wanlop Hunchainaow ทะเบียนเลขที่ ว-323-จ-9457 , Samart Khumphlee ทะเบียนเลขที่ ว-204-จ-7830

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

Siriluk P.

Siriluk Puengpang

Supervisor

ทะเบียนเลขที่ ว-204-จ-4720

Approved by

Kanokkorn Anek

Senior Manager

ทะเบียนเลขที่ ว-204-ค-6111

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ภาคผนวก ค-5

คุณภาพดิน

ANALYSIS REPORT

CUSTOMER NAME : THAI POLYETHYLENE CO., LTD.
ADDRESS : 88/9 RAYONG - HIGHWAY 3191 ROAD MAP TA PHUT MUEANG RAYONG RAYONG 21150
CONTACT INFORMATION : TEL : 08 1683 8432 e-mail : MONTRETH@SCG.COM
SAMPLING SOURCE : ด้านทิศเหนือของโครงการ (PP3)
SAMPLE TYPE : SOIL
SAMPLING DATE : OCTOBER 10, 2022
SAMPLING TIME : 11:50 HOUR
SAMPLING METHOD : UNDISTURBED
SAMPLING BY : MR SETTHAWUT EMKLINBUA
ANALYZED BY : MISS JINTASUPA PLIANSRI

RECEIVED DATE : OCTOBER 11, 2022
ANALYTICAL DATE : OCTOBER 11-29, 2022
REPORT NO. : 2022-U085615
WORK NO. : 2022-008338
ANALYSIS NO. : T22AU160-0001

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			57-MW1-GA T22AU160-0001		
pH (1:1) ^b	-	ELECTROMETRIC METHOD (US EPA 2004: 9045D)	6.0 (25°C)	-	-
TOTAL PETROLEUM HYDROCARBON*					
TPH (C ₅ -C ₆) ^c	mg/kg	PURGE AND TRAP/GAS CHROMATOGRAPHIC (FID) METHOD (US EPA 2002: 5035A AND 2003: 8015D)	ND	≤ 25	0.04
TPH (C ₇ -C ₈) ^c	mg/kg	ULTRASONIC EXTRACTION AND GAS CHROMATOGRAPHIC (FID) METHOD (US EPA 2007:3550 C AND 2003:8015 D)	ND	≤ 25	0.08
TPH (C ₉ -C ₂₀) ^c	mg/kg	ULTRASONIC EXTRACTION AND GAS CHROMATOGRAPHIC (FID) METHOD (US EPA 2007:3550 C AND 2003:8015 D)	ND	≤ 8.0	0.21
VOLATILE ORGANIC COMPOUNDS					
n-HEXANE ^c	mg/kg	PURGE AND TRAP GAS CHROMATOGRAPHIC/MASS SPECTROMETRIC METHOD (US EPA 2002: 5035A AND 2006: 8260C)	ND	≤ 1,000	0.01
SAMPLE CONDITION			BROWN SOIL		

* : ISO/IEC 17025 ACCREDITED BY THAI INDUSTRIAL STANDARDS INSTITUTE (TISI)

^b : ISO/IEC 17025 ACCREDITED BY DEPARTMENT OF SCIENCE SERVICE (DSS)

^c : VERIFIED BY OWN LABORATORY QUALITY SYSTEM, BUT STILL NOT ACCREDITED

REGULATORY STANDARD : NOTIFICATION OF MINISTRY OF INDUSTRY IN PRESCRIBING THE CRITERIA ON CONTAMINATION IN SOIL AND GROUNDWATER, THE EXAMINATION OF SOIL AND GROUNDWATER QUALITY, INFORMATION INCLUDING MAKING THE REPORT OF THE RESULT OF SOIL AND GROUNDWATER QUALITY EXAMINATION, AND THE REPORT WHICH SHALL BE PROPOSED THE MEASUREMENT TO CONTROL AND REDUCE THE CONTAMINATION IN SOIL AND GROUNDWATER B.E. 2559

SAMPLE (S) ANALYSED ON AS RECEIVED BASIS. RESULT (S) REPORTED ON A DRY WEIGHT BASIS.

* : SEE ADDITIONAL ANALYSIS REPORT

ND : NON-DETECTABLE

Benjawan V.

(MISS BENJAWAN VIRIYOTHAI)
LABORATORY SUPERVISOR

NOVEMBER 2, 2022

• DO NOT COPY PARTIAL OF THIS ANALYSIS REPORT WITHOUT OFFICIAL APPROVAL .

• REPORTED ANALYSIS REFERS TO SUBMITTED SAMPLE ONLY.



ADDITIONAL ANALYSIS REPORT

CUSTOMER NAME : THAI POLYETHYLENE CO., LTD.
ADDRESS : 88/9 RAYONG - HIGHWAY 3191 ROAD MAP TA PHUT MUEANG RAYONG RAYONG 21150
CONTACT INFORMATION : TEL : 08 1683 8432 e-mail : MONTRETH@SCG.COM
RECEIVED DATE : OCTOBER 11, 2022
ANALYTICAL DATE : OCTOBER 11-29, 2022
REPORT NO. : 2022-U085615
ANALYSIS NO. : T22AU160-0001

TOTAL PETROLEUM HYDROCARBON, WHICH THE LABORATORY ANALYSED INCLUDES;

PARAMETER	COMPOUNDS ANALYSED
TPH (C ₅ -C ₆)	- n-PENTANE - n-HEXANE - n-HEPTANE - n-OCTANE
TPH (C ₇ -C ₁₀)	- n-NONANE - n-DECANE - n-UNDECANE - n-DODECANE - n-TRIDECANE - n-TETRADECANE - n-PENTADECANE - n-HEXADECANE
TPH (C ₁₁ -C ₂₁)	- n-HEPTADECANE - n-OCTADECANE - n-NONADECANE - PRISTANE - n-EICOSANE - PHYTANE - n-HENEICOSANE - n-DOCOSANE - n-TRICOSANE - n-TETRACOSANE - n-PENTACOSANE - n-HEXACOSANE - n-HEPTACOSANE - n-OCTACOSANE - n-NONACOSANE - n-TRIACONTANE - n-HENTRIACONTANE - n-DOTRIACONTANE - n-TRITRIACONTANE - n-TETRA TRIACONTANE - n-PENTATRIACONTANE

ANALYSIS REPORT

CUSTOMER NAME : THAI POLYETHYLENE CO., LTD.
ADDRESS : 88/9 RAYONG - HIGHWAY 3191 ROAD MAP TA PHUT MUEANG RAYONG RAYONG 21150
CONTACT INFORMATION : TEL : 08 1683 8432 e-mail : MONTRETH@SCG.COM
SAMPLING SOURCE : ด้านทิศเหนือของโครงการ (HDPE4)
SAMPLE TYPE : SOIL
SAMPLING DATE : OCTOBER 10, 2022
SAMPLING TIME : 11:50 HOUR
SAMPLING METHOD : UNDISTURBED
SAMPLING BY : MR SETTHAWUT EMKINBUA
ANALYZED BY : MISS JINTASUPA PLIANSRI

RECEIVED DATE : OCTOBER 25, 2022
ANALYTICAL DATE : OCTOBER 25-29, 2022
REPORT NO. : 2022-U086531
WORK NO. : 2022-008339
ANALYSIS NO. : T22AV054-0001

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			57-MW1-GA T22AV054-0001		
pH (1:1) ^a	-	ELECTROMETRIC METHOD (US EPA 2004: 9045D)	6.0 (25°C)	-	-
TOTAL PETROLEUM HYDROCARBON*					
TPH (C ₅ -C ₉) ^c	mg/kg	PURGE AND TRAP/GAS CHROMATOGRAPHIC (FID) METHOD (US EPA 2002: 5035A AND 2003: 8015D)	ND	≤ 25	0.04
TPH (C ₅ -C ₁₀) ^c	mg/kg	ULTRASONIC EXTRACTION AND GAS CHROMATOGRAPHIC (FID) METHOD (US EPA 2007:3550 C AND 2003:8015 D)	ND	≤ 25	0.08
TPH (C ₅ -C ₂₀) ^c	mg/kg	ULTRASONIC EXTRACTION AND GAS CHROMATOGRAPHIC (FID) METHOD (US EPA 2007:3550 C AND 2003:8015 D)	ND	≤ 8.0	0.21
VOLATILE ORGANIC COMPOUNDS					
n-HEXANE ^c	mg/kg	PURGE AND TRAP GAS CHROMATOGRAPHIC/MASS SPECTROMETRIC METHOD (US EPA 2002: 5035A AND 2006: 8260C)	ND	≤ 1,000	0.01
SAMPLE CONDITION			BROWN SOIL		

^a : ISO/IEC 17025 ACCREDITED BY THAI INDUSTRIAL STANDARDS INSTITUTE (TISI)

^b : ISO/IEC 17025 ACCREDITED BY DEPARTMENT OF SCIENCE SERVICE (DSS)

^c : VERIFIED BY OWN LABORATORY QUALITY SYSTEM, BUT STILL NOT ACCREDITED

REGULATORY STANDARD : NOTIFICATION OF MINISTRY OF INDUSTRY IN PRESCRIBING THE CRITERIA ON CONTAMINATION IN SOIL AND GROUNDWATER, THE EXAMINATION OF SOIL AND GROUNDWATER QUALITY, INFORMATION INCLUDING MAKING THE REPORT OF THE RESULT OF SOIL AND GROUNDWATER QUALITY EXAMINATION, AND THE REPORT WHICH SHALL BE PROPOSED THE MEASUREMENT TO CONTROL AND REDUCE THE CONTAMINATION IN SOIL AND GROUNDWATER B.E. 2559

SAMPLE (S) ANALYSED ON AS RECEIVED BASIS. RESULT (S) REPORTED ON A DRY WEIGHT BASIS.

* : SEE ADDITIONAL ANALYSIS REPORT

ND : NON-DETECTABLE

Benjawan V.

(MISS BENJAWAN VIRIYOTHAI)
LABORATORY SUPERVISOR

NOVEMBER 3, 2022

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• REPORTED ANALYSIS REFERS TO SUBMITTED SAMPLE ONLY.

1/1



ADDITIONAL ANALYSIS REPORT

CUSTOMER NAME : THAI POLYETHYLENE CO., LTD.
ADDRESS : 88/9 RAYONG - HIGHWAY 3191 ROAD MAP TA PHUT MUEANG RAYONG RAYONG 21150
CONTACT INFORMATION : TEL : 08 1683 8432 e-mail : MONTRETH@SCG.COM
RECEIVED DATE : OCTOBER 25, 2022
ANALYTICAL DATE : OCTOBER 25-29, 2022
REPORT NO. : 2022-U086531
ANALYSIS NO. : T22AV054-0001

TOTAL PETROLEUM HYDROCARBON, WHICH THE LABORATORY ANALYSED INCLUDES:

PARAMETER	COMPOUNDS ANALYSED
TPH (C ₅ -C ₉)	- n-PENTANE - n-HEXANE - n-HEPTANE - n-OCTANE
TPH (C ₅ -C ₁₀)	- n-NONANE - n-DECANE - n-UNDECANE - n-DODECANE - n-TRIDECANE - n-TETRADECANE - n-PENTADECANE - n-HEXADECANE
TPH (C ₅ -C ₂₀)	- n-HEPTADECANE - n-OCTADECANE - n-NONADECANE - PRISTANE - n-EICOSANE - PHYTANE - n-HENICOSANE - n-DOCOSANE - n-TRICOSANE - n-TETRACOSANE - n-PENTACOSANE - n-HEXACOSANE - n-HEPTACOSANE - n-OCTACOSANE - n-NONACOSANE - n-TRIACONTANE - n-HENTRIACONTANE - n-DOTRIACONTANE - n-TRITRIACONTANE - n-TETRATRIACONTANE - n-PENTATRIACONTANE



Analysis / Test Report

Client : Thai Polyethylene Co., Ltd.

88/4-5, Map Ta Phut Industrial Estate, Rayong - Highway 3191 Road, Map Ta Phut,
Mueang Rayong, Rayong Thailand 21150

P/O : 5002223207

Project Name : Environmental Monitoring

Project Location: Site 7

Lot ID: 22109930

Date Received : Sep 19, 2022

Date Reported : Sep 28, 2022

Report Number : 2448297-1

Page 1 of 1

Sample Number	22109930-1
Sampled Date	Sep 19, 2022 2:10 PM
Sample Description	Soil
Location	บ่อสังเกตการณ์ด้านทิศเหนือของโครงการฯ (S7-MW1-GA) 30 cm.
Date Analysis Commenced	Sep 20, 2022
Condition of Sample	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
Organic Compounds							
n-Hexane	mg/kg	-	0.2	<0.2	1000	Based on US EPA, Method 5035 and 8260D	Bangkok
Petroleum Hydrocarbons							
TPH C>16-C35	mg/kg	-	5	14	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-ค-6111

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Analysis / Test Report

Client : Thai Polyethylene Co., Ltd.

88/4-5, Map Ta Phut Industrial Estate, Rayong - Highway 3191 Road, Map Ta Phut,
Mueang Rayong, Rayong Thailand 21150

P/O : 5002223207

Project Name : Environmental Monitoring

Project Location: Site 7

Lot ID: 22109930

Date Received : Sep 19, 2022

Date Reported : Sep 28, 2022

Report Number : 2448297-2

Page 1 of 1

Sample Number	22109930-1
Sampled Date	Sep 19, 2022 2:10 PM
Sample Description	Soil
Location	บ่อสังเกตการณ์ด้านทิศเหนือของโครงการฯ (S7-MW1-GA) 30 cm.
Date Analysis Commenced	Sep 20, 2022
Condition of Sample	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
Soil Testing							
pH aqueous phase 50% (w/v)		-	-	7.6	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)

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Approved by

Narin Saiseng
Supervisor



Analysis / Test Report

Client : Thai Polyethylene Co., Ltd.

88/4-5, Map Ta Phut Industrial Estate, Rayong - Highway 3191 Road, Map Ta Phut,
Mueang Rayong, Rayong Thailand 21150

P/O : 5002223207

Project Name : Environmental Monitoring

Project Location: Site 7

Lot ID: 22109930

Date Received : Sep 19, 2022

Date Reported : Sep 28, 2022

Report Number : 2448298-1

Page 1 of 1

Sample Number	22109930-2
Sampled Date	Sep 19, 2022 2:25 PM
Sample Description	Soil
Location	บ่อสังเกตการณ์ด้านทิศเหนือของโครงการฯ (S7-MW1-GA) 3.5 m.
Date Analysis Commenced	Sep 20, 2022
Condition of Sample	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
Organic Compounds							
n-Hexane	mg/kg	-	0.2	<0.2	1000	Based on US EPA, Method 5035 and 8260D	Bangkok
Petroleum Hydrocarbons							
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-ค-6111

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Analysis / Test Report

Client : Thai Polyethylene Co., Ltd.

88/4-5, Map Ta Phut Industrial Estate, Rayong - Highway 3191 Road, Map Ta Phut,
Mueang Rayong, Rayong Thailand 21150

P/O : 5002223207

Project Name : Environmental Monitoring

Project Location: Site 7

Lot ID: 22109930

Date Received : Sep 19, 2022

Date Reported : Sep 28, 2022

Report Number : 2448298-2

Page 1 of 1

Sample Number	22109930-2
Sampled Date	Sep 19, 2022 2:25 PM
Sample Description	Soil
Location	บ่อสังเกตการณ์ด้านทิศเหนือของโครงการฯ (S7-MW1-GA) 3.5 m.
Date Analysis Commenced	Sep 20, 2022
Condition of Sample	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
Soil Testing							
pH aqueous phase 50% (w/v)		-	-	4.5	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
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Approved by

Narin Saiseng
Supervisor



Analysis / Test Report

Client : Thai Polyethylene Co., Ltd.

88/4-5, Map Ta Phut Industrial Estate, Rayong - Highway 3191 Road, Map Ta Phut,
Mueang Rayong, Rayong Thailand 21150

P/O : 5002223207

Project Name : Environmental Monitoring

Project Location: Site 7

Lot ID: 22109930

Date Received : Sep 19, 2022

Date Reported : Sep 28, 2022

Report Number : 2448299-1

Page 1 of 1

Sample Number	22109930-3
Sampled Date	Sep 19, 2022 9:53 AM
Sample Description	Soil
Location	บ่อส่งผลการดำเนินงานที่ติดตั้งของโครงการฯ (S7-MW4-PP3) 30 cm.
Date Analysis Commenced	Sep 20, 2022
Condition of Sample	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
Organic Compounds							
n-Hexane	mg/kg	-	0.2	<0.2	1000	Based on US EPA, Method 5035 and 8260D	Bangkok
Petroleum Hydrocarbons							
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-ค-6111

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Analysis / Test Report

Client : Thai Polyethylene Co., Ltd.

88/4-5, Map Ta Phut Industrial Estate, Rayong - Highway 3191 Road, Map Ta Phut,
Mueang Rayong, Rayong Thailand 21150

P/O : 5002223207

Project Name : Environmental Monitoring

Project Location: Site 7

Lot ID: 22109930

Date Received : Sep 19, 2022

Date Reported : Sep 28, 2022

Report Number : 2448299-2

Page 1 of 1

Sample Number	22109930-3
Sampled Date	Sep 19, 2022 9:53 AM
Sample Description	Soil
Location	บ่อสังเกตการณ์ด้านทิศตะวันตกของโครงการฯ (S7-MW4-PP3) 30 cm.
Date Analysis Commenced	Sep 20, 2022
Condition of Sample	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
Soil Testing							
pH aqueous phase 50% (w/v)		-	-	7.6	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 :

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

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Narin Saiseng
Supervisor



Analysis / Test Report

Client : Thai Polyethylene Co., Ltd.

88/4-5, Map Ta Phut Industrial Estate, Rayong - Highway 3191 Road, Map Ta Phut,
Mueang Rayong, Rayong Thailand 21150

P/O : 5002223207

Project Name : Environmental Monitoring

Project Location: Site 7

Lot ID: 22109930

Date Received : Sep 19, 2022

Date Reported : Sep 28, 2022

Report Number : 2448300-1

Page 1 of 1

Sample Number	22109930-4
Sampled Date	Sep 19, 2022 11:13 AM
Sample Description	Soil
Location	บ่อสังเกตรถการด้านทิศตะวันตกของโครงการฯ (S7-MW4-PP3) 5.30 m.
Date Analysis Commenced	Sep 20, 2022
Condition of Sample	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
Organic Compounds							
n-Hexane	mg/kg	-	0.2	<0.2	1000	Based on US EPA, Method 5035 and 8260D	Bangkok
Petroleum Hydrocarbons							
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 :

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- "<" : 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-ค-6111

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Mueang Rayong, Rayong Thailand 21150

P/O : 5002223207

Project Name : Environmental Monitoring

Project Location: Site 7

Lot ID: 22109930

Date Received : Sep 19, 2022

Date Reported : Sep 28, 2022

Report Number : 2448300-2

Page 1 of 1

Sample Number	22109930-4
Sampled Date	Sep 19, 2022 11:13 AM
Sample Description	Soil
Location	บ่อสังเกตการณ์ด้านทิศตะวันตกของโครงการฯ (S7-MW4-PP3) 5.30 m.
Date Analysis Commenced	Sep 20, 2022
Condition of Sample	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
Soil Testing							
pH aqueous phase 50% (w/v)		-	-	4.8	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

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Supervisor



Analysis / Test Report

Client : Thai Polyethylene Co., Ltd.

88/4-5, Map Ta Phut Industrial Estate, Rayong - Highway 3191 Road, Map Ta Phut,
Mueang Rayong, Rayong Thailand 21150

P/O : 5002223208

Project Name : Environmental Monitoring

Project Location: Site 7

Lot ID: 22109935

Date Received : Sep 19, 2022

Date Reported : Sep 28, 2022

Report Number : 2448305-1

Page 1 of 1

Sample Number	22109935-1
Sampled Date	Sep 19, 2022 11:37 AM
Sample Description	Soil
Location	บ่อสังเกตการณ์ด้านทิศใต้ของโครงการฯ (S7-MW2-HD4) 30 cm.
Date Analysis Commenced	Sep 20, 2022
Condition of Sample	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
Organic Compounds							
n-Hexane	mg/kg	-	0.2	<0.2	1000	Based on US EPA, Method 5035 and 8260D	Bangkok
Petroleum Hydrocarbons							
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-ค-6111

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Mueang Rayong, Rayong Thailand 21150

P/O : 5002223208

Project Name : Environmental Monitoring

Project Location: Site 7

Lot ID: 22109935

Date Received : Sep 19, 2022

Date Reported : Sep 28, 2022

Report Number : 2448305-2

Page 1 of 1

Sample Number	22109935-1
Sampled Date	Sep 19, 2022 11:37 AM
Sample Description	Soil
Location	บ่อสังเกตการณ์ด้านทิศใต้ของโครงการฯ (S7-MW2-HD4) 30 cm.
Date Analysis Commenced	Sep 20, 2022
Condition of Sample	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
Soil Testing							
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

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Narin Saiseng
Supervisor



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Mueang Rayong, Rayong Thailand 21150

P/O : 5002223208

Project Name : Environmental Monitoring

Project Location: Site 7

Lot ID: 22109935

Date Received : Sep 19, 2022

Date Reported : Sep 28, 2022

Report Number : 2448306-1

Page 1 of 1

Sample Number	22109935-2
Sampled Date	Sep 19, 2022 11:52 AM
Sample Description	Soil
Location	บ่อสังเกตการณ์ด้านทิศใต้ของโครงการฯ (S7-MW2-HD4) 3 m.
Date Analysis Commenced	Sep 20, 2022
Condition of Sample	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
Organic Compounds							
n-Hexane	mg/kg	-	0.2	<0.2	1000	Based on US EPA, Method 5035 and 8260D	Bangkok
Petroleum Hydrocarbons							
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 :

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- "<" : 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-ค-6111

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Analysis / Test Report

Client : Thai Polyethylene Co., Ltd.

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Mueang Rayong, Rayong Thailand 21150

P/O : 5002223208

Project Name : Environmental Monitoring

Project Location: Site 7

Lot ID: 22109935

Date Received : Sep 19, 2022

Date Reported : Sep 28, 2022

Report Number : 2448306-2

Page 1 of 1

Sample Number	22109935-2
Sampled Date	Sep 19, 2022 11:52 AM
Sample Description	Soil
Location	บ่อสังเกตการณ์ด้านทิศใต้ของโครงการฯ (S7-MW2-HD4) 3 m.
Date Analysis Commenced	Sep 20, 2022
Condition of Sample	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
Soil Testing							
pH aqueous phase 50% (w/v)		-	-	5.6	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

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Narin Saiseng
Supervisor



Analysis / Test Report

Client : Thai Polyethylene Co., Ltd.

88/4-5, Map Ta Phut Industrial Estate, Rayong - Highway 3191 Road, Map Ta Phut,
Mueang Rayong, Rayong Thailand 21150

P/O : 5002223208

Project Name : Environmental Monitoring

Project Location: Site 7

Lot ID: 22109935

Date Received : Sep 19, 2022

Date Reported : Sep 28, 2022

Report Number : 2448307-1

Page 1 of 1

Sample Number	22109935-3
Sampled Date	Sep 19, 2022 12:20 PM
Sample Description	Soil
Location	บ่อสังเกตการณ์ด้านทิศตะวันออกของโครงการฯ (S7-MW3-HD4) 30 cm.
Date Analysis Commenced	Sep 20, 2022
Condition of Sample	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
Organic Compounds							
n-Hexane	mg/kg	-	0.2	<0.2	1000	Based on US EPA, Method 5035 and 8260D	Bangkok
Petroleum Hydrocarbons							
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 :

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Technical Management

Narin Saiseng

Supervisor

ทะเบียนเลขที่ ว-204-จ-4715

Approved by

Kanokkorn Anek

Senior Manager

ทะเบียนเลขที่ ว-204-ค-6111

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Mueang Rayong, Rayong Thailand 21150

P/O : 5002223208

Project Name : Environmental Monitoring

Project Location: Site 7

Lot ID: 22109935

Date Received : Sep 19, 2022

Date Reported : Sep 28, 2022

Report Number : 2448307-2

Page 1 of 1

Sample Number	22109935-3
Sampled Date	Sep 19, 2022 12:20 PM
Sample Description	Soil
Location	บ่อสังเกตการณ์ด้านทิศตะวันออกของโครงการฯ (S7-MW3-HD4) 30 cm.
Date Analysis Commenced	Sep 20, 2022
Condition of Sample	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
Soil Testing							
pH aqueous phase 50% (w/v)		-	-	4.2	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

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Narin Saiseng
Supervisor



Analysis / Test Report

Client : Thai Polyethylene Co., Ltd.

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Mueang Rayong, Rayong Thailand 21150

P/O : 5002223208

Project Name : Environmental Monitoring

Project Location: Site 7

Lot ID: 22109935

Date Received : Sep 19, 2022

Date Reported : Sep 28, 2022

Report Number : 2448308-1

Page 1 of 1

Sample Number	22109935-4
Sampled Date	Sep 19, 2022 12:36 PM
Sample Description	Soil
Location	บ่อส่งผลการดำเนินงานที่สถานีออกของโครงการฯ (S7-MW3-HD4) 2.5 m.
Date Analysis Commenced	Sep 20, 2022
Condition of Sample	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
Organic Compounds							
n-Hexane	mg/kg	-	0.2	<0.2	1000	Based on US EPA, Method 5035 and 8260D	Bangkok
Petroleum Hydrocarbons							
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 :

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- "<" : 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-ค-6111

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Mueang Rayong, Rayong Thailand 21150

P/O : 5002223208

Project Name : Environmental Monitoring

Project Location: Site 7

Lot ID: 22109935

Date Received : Sep 19, 2022

Date Reported : Sep 28, 2022

Report Number : 2448308-2

Page 1 of 1

Sample Number	22109935-4
Sampled Date	Sep 19, 2022 12:36 PM
Sample Description	Soil
Location	บ่อสังเกตการณ์ด้านทิศตะวันออกของโครงการฯ (S7-MW3-HD4) 2.5 m.
Date Analysis Commenced	Sep 20, 2022
Condition of Sample	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
Soil Testing							
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 :

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Narin Saiseng
Supervisor

ภาคผนวก ค-6

คุณภาพอากาศภายในสถานประกอบการ

คุณภาพอากาศภายในสถานประกอบการ ของโรงงาน PP3



Analysis / Test Report

Client : Thai Polyethylene Co., Ltd.

88/4-5, Map Ta Phut Industrial Estate, Rayong - Highway 3191 Road, Map Ta Phut,
Mueang Rayong, Rayong Thailand 21150

P/O :

Project Name : Environmental Monitoring

Project Location : PP3

Lot ID: 2312341

Date Received : Feb 07, 2023

Date Reported : Feb 14, 2023

Report Number : 2557347-1

Page 1 of 4

Sample Number	2312341-1
Sampled Date	Feb 07, 2023
Sample Description	Air Quality
Location	หน่วยผลิตโพลีเมอร์ (Polymerization Unit)
Date Analysis Commenced	Feb 08, 2023
Condition of Sample	Drawn into two 10-L air sampling bags
Barometric Pressure	756 mmHg
Atmospheric Temperature	32.0 °C

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

Guideline :

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

Sampled By : Ronnachai Mounigma

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.

88/4-5, Map Ta Phut Industrial Estate, Rayong - Highway 3191 Road, Map Ta Phut,
Mueang Rayong, Rayong Thailand 21150

P/O :

Project Name : Environmental Monitoring

Project Location : PP3

Lot ID: 2312341

Date Received : Feb 07, 2023

Date Reported : Feb 14, 2023

Report Number : 2557347-1

Page 2 of 4

Sample Number	2312341-2
Sampled Date	Feb 07, 2023
Sample Description	Air Quality
Location	หน่วยคัดเม็ด (Pelletization Unit)
Date Analysis Commenced	Feb 08, 2023
Condition of Sample	Drawn into two 10-L air sampling bags
Barometric Pressure	756 mmHg
Atmospheric Temperature	32.0 °C

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

Guideline :

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

Sampled By : Ronnachai Mounigma

Remark :

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Scientist (4)

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Analysis / Test Report

Client : Thai Polyethylene Co., Ltd.

88/4-5, Map Ta Phut Industrial Estate, Rayong - Highway 3191 Road, Map Ta Phut,
Mueang Rayong, Rayong Thailand 21150

P/O :

Project Name : Environmental Monitoring

Project Location : PP3

Lot ID: 2312341

Date Received : Feb 07, 2023

Date Reported : Feb 14, 2023

Report Number : 2557347-1

Page 3 of 4

Sample Number	2312341-3
Sampled Date	Feb 07, 2023
Sample Description	Air Quality
Location	หน่วยแยกผงลิเมอร์และทำให้แห้ง (Separation and Drying Unit)
Date Analysis Commenced	Feb 08, 2023
Condition of Sample	Drawn into one 10-L air sampling bag

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Total Hydrocarbon as Methane	10:00 AM - 12:00 PM	ppm	-	1.0	10.8	No Standard	Total Hydrocarbon Analyzer	-	Rayong

Guideline :

Sampled By : Ronnachai Mounigma

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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Client : Thai Polyethylene Co., Ltd.

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Mueang Rayong, Rayong Thailand 21150

P/O :

Project Name : Environmental Monitoring

Project Location : PP3

Lot ID: 2312341

Date Received : Feb 07, 2023

Date Reported : Feb 14, 2023

Report Number : 2557347-1

Page 4 of 4

Sample Number 2312341-4
Sampled Date Feb 07, 2023
Sample Description Air Quality
Location หน่วยบรรจุเม็ด (Packing Unit)
Date Analysis Commenced Feb 08, 2023
Condition of Sample Drawn into one filter paper placed in plastic cassette
Barometric Pressure 756 mmHg
Atmospheric Temperature 32.0 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Total Dust	10:00 AM - 12:00 PM	mg/m3	-	0.15	<0.15	15	Based on NIOSH (1994), 0500	OSHA	Rayong

Guideline :

OSHA : Occupational Safety and Health Administration

Sampled By : Ronnachai Mounigma

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.

88/4-5, Map Ta Phut Industrial Estate, Rayong - Highway 3191 Road, Map Ta Phut,
Mueang Rayong, Rayong Thailand 21150

P/O : PMM-23-11

Project Name : Environmental Monitoring

Project Location : PP3

Lot ID: 2346320

Date Received : May 31, 2023

Date Reported : Jun 09, 2023

Report Number : 2632622-1

Page 1 of 4

Sample Number	2346320-1
Sampled Date	May 30, 2023
Sample Description	Air Quality
Location	หน่วยผลิตโพลีเมอร์ (Polymerization Unit)
Date Analysis Commenced	Jun 02, 2023
Condition of Sample	Drawn into one 10-L air sampling bag
Barometric Pressure	760 mmHg
Atmospheric Temperature	31.0 °C

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

Guideline :

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

Sampled By : Natthapon Jiengwareewong

Remark :

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

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Approved by

Orawan R.

Orawan Rakyong
Scientist (3)



Analysis / Test Report

Client : Thai Polyethylene Co., Ltd.

88/4-5, Map Ta Phut Industrial Estate, Rayong - Highway 3191 Road, Map Ta Phut,
Mueang Rayong, Rayong Thailand 21150

P/O : PMM-23-11

Project Name : Environmental Monitoring

Project Location : PP3

Lot ID: 2346320

Date Received : May 31, 2023

Date Reported : Jun 09, 2023

Report Number : 2632622-1

Page 2 of 4

Sample Number 2346320-2
Sampled Date May 30, 2023
Sample Description Air Quality
Location หน่วยดัดเม็ด (Pelletization Unit)
Date Analysis Commenced Jun 02, 2023
Condition of Sample Drawn into one 10-L air sampling bag
Barometric Pressure 760 mmHg
Atmospheric Temperature 31.0 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Ethylene	09:30 AM - 11:30 AM	ppm	-	1.0	<1.0	200	Based on ASTM, D 2712-91	ACGIH	Bangkok
Propylene	09:30 AM - 11:30 AM	ppm	-	1.0	<1.0	500	Based on ASTM, D 2712-91	ACGIH	Bangkok

Guideline :

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

Sampled By : Natthapon Jiengwareewong

Remark :

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Approved by

Orawan R.

Orawan Rakyong
Scientist (3)



Analysis / Test Report

Client : Thai Polyethylene Co., Ltd.

88/4-5, Map Ta Phut Industrial Estate, Rayong - Highway 3191 Road, Map Ta Phut,
Mueang Rayong, Rayong Thailand 21150

P/O : PMM-23-11

Project Name : Environmental Monitoring

Project Location : PP3

Lot ID: 2346320

Date Received : May 31, 2023

Date Reported : Jun 09, 2023

Report Number : 2632622-1

Page 3 of 4

Sample Number	2346320-3
Sampled Date	May 30, 2023
Sample Description	Air Quality
Location	หน่วยแยกผงลิเมอร์และทำให้แห้ง (Separation and Drying Unit)
Date Analysis Commenced	Jun 01, 2023
Condition of Sample	Drawn into one 10-L air sampling bag

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Total Hydrocarbon as Methane	09:00 AM - 11:00 AM	ppm	-	1.0	5.1	No Standard	Total Hydrocarbon Analyzer	-	Rayong

Guideline :

Sampled By : Natthapon Jiengwareewong

Remark :

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Approved by

Orawan R.

Orawan Rakyong
Scientist (3)



Analysis / Test Report

Client : Thai Polyethylene Co., Ltd.

88/4-5, Map Ta Phut Industrial Estate, Rayong - Highway 3191 Road, Map Ta Phut,
Mueang Rayong, Rayong Thailand 21150

P/O : PMM-23-11

Project Name : Environmental Monitoring

Project Location : PP3

Lot ID: 2346320

Date Received : May 31, 2023

Date Reported : Jun 09, 2023

Report Number : 2632622-1

Page 4 of 4

Sample Number 2346320-4
Sampled Date May 30, 2023
Sample Description Air Quality
Location หน่วยบรรจุเม็ด (Packing Unit)
Date Analysis Commenced Jun 01, 2023
Condition of Sample Drawn into one filter paper placed in plastic cassette
Barometric Pressure 760 mmHg
Atmospheric Temperature 31.0 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Total Dust	09:30 AM - 11:30 AM	mg/m3	-	0.15	<0.15	15	Based on NIOSH (1994), 0500	OSHA	Rayong

Guideline :

OSHA : Occupational Safety and Health Administration

Sampled By : Natthapon Jiengwareewong

Remark :

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Approved by

Orawan R.

Orawan Rakyong
Scientist (3)

คุณภาพอากาศภายในสถานประกอบการ ของโรงงาน HDPE4



Analysis / Test Report

Client : Thai Polyethylene Co., Ltd.

88/4-5, Map Ta Phut Industrial Estate, Rayong - Highway 3191 Road, Map Ta Phut,
Mueang Rayong, Rayong Thailand 21150

P/O :

Project Name : Environmental Monitoring

Project Location : HD 4

Lot ID: 2313782

Date Received : Feb 07, 2023

Date Reported : Feb 17, 2023

Report Number : 2560457-1

Page 1 of 3

Sample Number	2313782-1
Sampled Date	Feb 07, 2023
Sample Description	Air Quality
Location	หน่วยผลิตโพลีเมอร์ (Polymerization Unit)
Date Analysis Commenced	Feb 08, 2023
Condition of Sample	Drawn into one 10-L air sampling bag and one sorbent tube, refrigerated
Barometric Pressure	756 mmHg
Atmospheric Temperature	32.0 °C

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

Guideline :

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

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

Sampled By : Ronnachai Mounigma

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.

88/4-5, Map Ta Phut Industrial Estate, Rayong - Highway 3191 Road, Map Ta Phut,
Mueang Rayong, Rayong Thailand 21150

P/O :

Project Name : Environmental Monitoring

Project Location : HD 4

Lot ID: 2313782

Date Received : Feb 07, 2023

Date Reported : Feb 17, 2023

Report Number : 2560457-1

Page 2 of 3

Sample Number	2313782-2
Sampled Date	Feb 07, 2023
Sample Description	Air Quality
Location	หน่วยคัดเม็ด (Pelletization Unit)
Date Analysis Commenced	Feb 08, 2023
Condition of Sample	Drawn into one 10-L air sampling bag and one sorbent tube, refrigerated
Barometric Pressure	756 mmHg
Atmospheric Temperature	32.0 °C

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

Guideline :

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

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

Sampled By : Ronnachai Mounigma

Remark :

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Saranya C.

Saranya Chalermthamrong
Scientist (4)

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Analysis / Test Report

Client : Thai Polyethylene Co., Ltd.

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Mueang Rayong, Rayong Thailand 21150

P/O :

Project Name : Environmental Monitoring

Project Location : HD 4

Lot ID: 2313782

Date Received : Feb 07, 2023

Date Reported : Feb 17, 2023

Report Number : 2560457-1

Page 3 of 3

Sample Number 2313782-3
Sampled Date Feb 07, 2023
Sample Description Air Quality
Location หน่วยบรรจุเม็ด (Packing Unit)
Date Analysis Commenced Feb 08, 2023
Condition of Sample Drawn into one filter paper placed in plastic cassette
Barometric Pressure 756 mmHg
Atmospheric Temperature 32.0 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Total Dust	10:00 AM - 12:00 PM	mg/m3	-	0.15	<0.15	15	Based on NIOSH (1994), 0500	OSHA	Rayong

Guideline :

OSHA : Occupational Safety and Health Administration

Sampled By : Ronnachai MOUNGMA

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.

88/4-5, Map Ta Phut Industrial Estate, Rayong - Highway 3191 Road, Map Ta Phut,
Mueang Rayong, Rayong Thailand 21150

P/O : PMM-23-11

Project Name : Environmental Monitoring

Project Location : HD 4

Lot ID: 2356042

Date Received : May 25, 2023

Date Reported : Jun 06, 2023

Report Number : 2653821-1

Page 1 of 3

Sample Number	2356042-1
Sampled Date	May 23, 2023
Sample Description	Air Quality
Location	หน่วยผลิตโพลีเมอร์ (Polymerization Unit)
Date Analysis Commenced	May 26, 2023
Condition of Sample	Drawn into one 10-L air sampling bag and one sorbent tube, refrigerated
Barometric Pressure	757 mmHg
Atmospheric Temperature	31.0 °C

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

Guideline :

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

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

Sampled By : Prasarnmit Kueanpet

Remark :

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Approved by

Orawan R.

Orawan Rakyong
Scientist (3)

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Analysis / Test Report

Client : Thai Polyethylene Co., Ltd.

88/4-5, Map Ta Phut Industrial Estate, Rayong - Highway 3191 Road, Map Ta Phut,
Mueang Rayong, Rayong Thailand 21150

P/O : PMM-23-11

Project Name : Environmental Monitoring

Project Location : HD 4

Lot ID: 2356042

Date Received : May 25, 2023

Date Reported : Jun 06, 2023

Report Number : 2653821-1

Page 2 of 3

Sample Number	2356042-2
Sampled Date	May 23, 2023
Sample Description	Air Quality
Location	หน่วยคัดเม็ด (Pelletization Unit)
Date Analysis Commenced	May 26, 2023
Condition of Sample	Drawn into one 10-L air sampling bag and one sorbent tube, refrigerated
Barometric Pressure	757 mmHg
Atmospheric Temperature	31.0 °C

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

Guideline :

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Sampled By : Prasarnmit Kueanpet

Remark :

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Approved by

Orawan R.

Orawan Rakyong
Scientist (3)



Analysis / Test Report

Client : Thai Polyethylene Co., Ltd.

88/4-5, Map Ta Phut Industrial Estate, Rayong - Highway 3191 Road, Map Ta Phut,
Mueang Rayong, Rayong Thailand 21150

P/O : PMM-23-11

Project Name : Environmental Monitoring

Project Location : HD 4

Lot ID: 2356042

Date Received : May 25, 2023

Date Reported : Jun 06, 2023

Report Number : 2653821-1

Page 3 of 3

Sample Number 2356042-3
Sampled Date May 23, 2023
Sample Description Air Quality
Location หน่วยบรรจุเม็ด (Packing Unit)
Date Analysis Commenced May 27, 2023
Condition of Sample Drawn into one filter paper placed in plastic cassette
Barometric Pressure 757 mmHg
Atmospheric Temperature 31.0 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Total Dust	10:00 AM - 12:00 PM	mg/m3	-	0.15	<0.15	15	Based on NIOSH (1994), 0500	OSHA	Rayong

Guideline :

OSHA : Occupational Safety and Health Administration

Sampled By : Prasanmit Kueanpet

Remark :

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

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Approved by

Orawan R.

Orawan Rakyong
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ภาคผนวก ค-7

ระดับเสียงในสถานประกอบการ

ระดับเสียงในสถานประกอบการ ของโรงงาน PP3



Analysis / Test Report

Client : Thai Polyethylene Co., Ltd.

88/4-5, Map Ta Phut Industrial Estate, Rayong - Highway 3191 Road, Map Ta Phut,
Mueang Rayong, Rayong Thailand 21150

P/O : PMM-23-11

Project Name : Environmental Monitoring

Project Location : PP3

Lot ID: 2352817

Date Received : May 31, 2023

Date Reported : Jun 03, 2023

Report Number : 2646797-1

Page 1 of 1

Sample Number 2352817-1
Sampled Date May 30, 2023
Sample Description Noise Dose
Personal Sampling คุณณัฐวุฒิ มีสดี
Date Analysis Commenced Jun 01, 2023

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Noise Dose (12 hrs.) (Calculated from Lavg)	08:00 AM - 08:00 PM	%	-	-	49.0	No Standard	MOL, Department Labour Protection and Welfare (B.E.2561)	MOL	Bangkok
Noise Dose (8 hrs.)	08:00 AM - 08:00 PM	%	-	1	46.8	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)	-	-	79.9	83*	MOL, Department Labour Protection and Welfare (B.E.2561)	MOL	Bangkok
TWA (8 hrs.)	08:00 AM - 08:00 PM	dB(A)	-	-	81.7	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 : Natthapon Jiengwareewong

Remark :

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

Approved by

Wichan Choonharat
Assistant Manager

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Analysis / Test Report

Client : Thai Polyethylene Co., Ltd.

88/4-5, Map Ta Phut Industrial Estate, Rayong - Highway 3191 Road, Map Ta Phut, Mueang
Rayong, Rayong Thailand 21150

P/O : PMM-23-11

Project Name : Environmental Monitoring

Project Location : PP3

Lot ID: 2337098

Date Received : May 31, 2023

Date Reported : Jun 07, 2023

Report Number: 2674800-1

Page 1 of 1

Sample Number 2337098-1
Parameter Noise (Leq 12 hrs.)
Location หน่วยผลิตโพลีเมอร์ (Polymerization Unit)
Measurement Date May 30, 2023
Measurement by Natthapon Jiengwareewong

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
08:45 AM - 09:45 AM	83.3	90.7	83.0
09:45 AM - 10:45 AM	82.7	90.1	82.4
10:45 AM - 11:45 AM	82.2	82.7	82.1
11:45 AM - 12:45 PM	81.8	82.9	81.7
12:45 PM - 01:45 PM	82.7	84.3	82.1
01:45 PM - 02:45 PM	83.8	85.7	83.3
02:45 PM - 03:45 PM	83.9	85.2	83.6
03:45 PM - 04:45 PM	83.8	84.9	83.6
04:45 PM - 05:45 PM	83.7	85.6	83.6
05:45 PM - 06:45 PM	83.8	85.7	83.7
06:45 PM - 07:45 PM	83.4	85.3	83.3
07:45 PM - 08:45 PM	83.0	84.9	82.9

Leq Average 12 hrs. (dB(A))

83.2

Lmax (dB(A))

90.7

Standard (dB(A))

87

140

Reference Method : ISO1996-1 and 1996-2

Standard : ประกาศกระทรวงอุตสาหกรรม เรื่อง มาตรการคุ้มครองความปลอดภัย
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Technical Management

Thanita K.

Thanita Kulsuriwong
Scientist (4)

Approved by

Supot S.

Supot Salamteh
Section Head

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Analysis / Test Report

Client : Thai Polyethylene Co., Ltd.

88/4-5, Map Ta Phut Industrial Estate, Rayong - Highway 3191 Road, Map Ta Phut, Mueang
Rayong, Rayong Thailand 21150

P/O : PMM-23-11

Project Name : Environmental Monitoring

Project Location : PP3

Lot ID: 2337098

Date Received : May 31, 2023

Date Reported : Jun 07, 2023

Report Number: 2674801-1

Page 1 of 1

Sample Number 2337098-2
Parameter Noise (Leq 12 hrs.)
Location หน่วยตัดเม็ด (Pelletization Unit) ของโรงงาน PP3
Measurement Date May 30, 2023
Measurement by Natthapon Jiengwareewong

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
08:25 AM - 09:25 AM	82.8	85.1	82.2
09:25 AM - 10:25 AM	83.1	85.4	82.5
10:25 AM - 11:25 AM	83.0	83.7	82.9
11:25 AM - 12:25 PM	83.1	83.9	82.9
12:25 PM - 01:25 PM	83.8	84.8	83.7
01:25 PM - 02:25 PM	83.0	84.3	82.8
02:25 PM - 03:25 PM	83.7	85.0	83.4
03:25 PM - 04:25 PM	83.4	85.9	83.0
04:25 PM - 05:25 PM	83.9	86.4	83.5
05:25 PM - 06:25 PM	83.4	84.3	83.2
06:25 PM - 07:25 PM	83.8	84.7	83.6
07:25 PM - 08:25 PM	83.4	84.3	83.2

Leq Average 12 hrs. (dB(A))

83.4

Lmax (dB(A))

86.4

Standard (dB(A))

87

140

Reference Method : ISO1996-1 and 1996-2

Standard : ประกาศกระทรวงอุตสาหกรรม เรื่อง มาตรการคุ้มครองความปลอดภัย
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Technical Management

Thanita K.

Thanita Kulsuriwong
Scientist (4)

Approved by

Supot S.

Supot Salamteh
Section Head

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Analysis / Test Report

Client : Thai Polyethylene Co., Ltd.

88/4-5, Map Ta Phut Industrial Estate, Rayong - Highway 3191 Road, Map Ta Phut,
Mueang Rayong, Rayong Thailand 21150

P/O : PMM-23-11

Project Name : Environmental Monitoring

Project Location : PP3

Lot ID: 2337104

Date Received : May 31, 2023

Date Reported : Jun 07, 2023

Report Number : 2675432-1

Page 1 of 1

Sample Number 2337104-1
Parameter Octave Band
Location หน่วยผลิตโพลีเมอร์ (Polymerization Unit)
Measurement Date May 30, 2023
Measurement By Natthapon Jiengwareewong

Time	Result (dB(A))											
	Leq	16 Hz	31.5 Hz	63 Hz	125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	8 kHz	16 kHz
08:45 AM - 09:45 AM	83.3	26.1	42.5	55.7	66.0	71.0	77.9	78.6	75.6	73.2	66.3	53.0
09:45 AM - 10:45 AM	82.7	25.5	41.9	55.1	65.4	70.4	77.3	78.0	75.0	72.6	65.7	52.4
10:45 AM - 11:45 AM	82.2	23.2	40.4	54.7	65.2	70.1	76.8	77.5	74.6	72.3	64.6	51.0
11:45 AM - 12:45 PM	81.8	22.8	40.7	54.9	64.9	69.7	76.4	77.0	74.3	72.3	64.7	50.8
12:45 PM - 01:45 PM	82.7	23.3	40.5	54.9	65.4	69.9	76.7	77.9	75.6	73.9	67.1	52.8
01:45 PM - 02:45 PM	83.8	23.5	40.5	54.9	65.5	70.0	76.7	79.0	77.9	74.8	67.6	53.4
02:45 PM - 03:45 PM	83.9	23.5	41.1	55.2	65.7	70.2	76.8	79.0	78.6	74.1	65.7	51.8
03:45 PM - 04:45 PM	83.8	23.6	41.0	55.1	65.6	70.2	76.8	79.2	78.5	73.8	64.7	51.1
04:45 PM - 05:45 PM	83.7	23.3	40.4	54.6	65.4	69.8	76.5	78.8	78.8	74.0	64.4	50.8
05:45 PM - 06:45 PM	83.8	23.4	40.5	54.7	65.5	69.9	76.6	78.9	78.9	74.1	64.5	50.9
06:45 PM - 07:45 PM	83.4	23.0	40.1	54.3	65.1	69.5	76.2	78.5	78.5	73.7	64.1	50.5
07:45 PM - 08:45 PM	83.0	22.6	39.7	53.9	64.7	69.1	75.8	78.1	78.1	73.3	63.7	50.1
Average	83.2	23.8	40.8	54.9	65.4	70.0	76.7	78.4	77.4	73.6	65.4	51.7

Reference Method : ANSI Standard S1.6-1984

Technical Management

Saranya C.

Saranya Chalermthamrong
Scientist (4)

Approved by

Supot S.

Supot Salamteh
Section Head

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Analysis / Test Report

Client : Thai Polyethylene Co., Ltd.

88/4-5, Map Ta Phut Industrial Estate, Rayong - Highway 3191 Road, Map Ta Phut,
Mueang Rayong, Rayong Thailand 21150

P/O : PMM-23-11

Project Name : Environmental Monitoring

Project Location : PP3

Lot ID: 2337104

Date Received : May 31, 2023

Date Reported : Jun 07, 2023

Report Number : 2675433-1

Page 1 of 1

Sample Number 2337104-2
Parameter Octave Band
Location หน่วยคัดเม็ด (Pelletization Unit) ของโรงงาน PP3
Measurement Date May 30, 2023
Measurement By Natthapon Jiengwareewong

Time	Result (dB(A))											
	Leq	16 Hz	31.5 Hz	63 Hz	125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	8 kHz	16 kHz
08:25 AM - 09:25 AM	82.8	21.0	37.8	52.1	70.4	70.2	74.2	76.6	75.0	76.4	73.5	62.9
09:25 AM - 10:25 AM	83.1	21.3	38.1	52.4	70.7	70.5	74.5	76.9	75.3	76.7	73.8	63.2
10:25 AM - 11:25 AM	83.0	24.0	40.0	53.5	71.5	69.8	73.7	76.6	75.1	76.9	74.1	63.0
11:25 AM - 12:25 PM	83.1	23.8	40.7	53.6	71.5	69.8	74.0	76.7	75.0	76.8	74.1	62.9
12:25 PM - 01:25 PM	83.8	24.5	41.4	54.6	72.6	70.4	74.3	77.4	75.7	77.7	75.0	63.5
01:25 PM - 02:25 PM	83.0	24.7	41.2	53.5	71.0	69.5	74.0	76.8	74.9	76.6	73.9	62.8
02:25 PM - 03:25 PM	83.7	24.6	42.0	54.4	71.3	70.1	74.6	77.6	75.6	77.4	74.8	64.4
03:25 PM - 04:25 PM	83.4	25.0	40.1	52.6	70.5	69.4	74.3	76.8	75.5	77.3	74.8	65.1
04:25 PM - 05:25 PM	83.9	25.5	40.6	53.1	71.0	69.9	74.8	77.3	76.0	77.8	75.3	65.6
05:25 PM - 06:25 PM	83.4	25.4	40.4	52.9	71.0	69.9	74.6	77.1	75.7	77.1	74.5	64.2
06:25 PM - 07:25 PM	83.8	25.8	40.8	53.3	71.4	70.3	75.0	77.5	76.1	77.5	74.9	64.6
07:25 PM - 08:25 PM	83.4	25.4	40.4	52.9	71.0	69.9	74.6	77.1	75.7	77.1	74.5	64.2
Average	83.4	24.5	40.4	53.3	71.2	70.0	74.4	77.0	75.5	77.1	74.5	64.0

Reference Method : ANSI Standard S1.6-1984

Technical Management

Saranya C.

Saranya Chalermthamrong
Scientist (4)

Approved by

Supot S.

Supot Salamteh
Section Head

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ระดับเสียงในสถานประกอบการ ของโรงงาน HDPE4



Analysis / Test Report

Client : Thai Polyethylene Co., Ltd.

88/4-5, Map Ta Phut Industrial Estate, Rayong - Highway 3191 Road, Map Ta Phut,
Mueang Rayong, Rayong Thailand 21150

P/O :

Project Name : Environmental Monitoring

Project Location : HDPE4

Lot ID: 2371813

Date Received : Jun 23, 2023

Date Reported : Jun 27, 2023

Report Number : 2692631-1

Page 1 of 1

Sample Number 2371813-1
Sampled Date Jun 22, 2023
Sample Description Noise Dose (12 hrs.)
Location พนักงาน Operator
Personal Sampling คุณเกรก บันลือเขตต์
Date Analysis Commenced Jun 27, 2023

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Noise Dose (12 hrs.) (Calculated from Lavg)	08:00 AM - 08:00 PM	%	-	-	27.5	No Standard	MOL, Department Labour Protection and Welfare (B.E.2561)	MOL	Bangkok
Noise Dose (8 hrs.)	08:00 AM - 08:00 PM	%	-	1	26.3	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)	-	-	77.4	83*	MOL, Department Labour Protection and Welfare (B.E.2561)	MOL	Bangkok
TWA (8 hrs.)	08:00 AM - 08:00 PM	dB(A)	-	-	79.2	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 : Tinnakorn Kumpasee

Remark :

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

Approved by

Wichan Choonharat
Assistant Manager

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Analysis / Test Report

Client : Thai Polyethylene Co., Ltd.

88/4-5, Map Ta Phut Industrial Estate, Rayong - Highway 3191 Road, Map Ta Phut, Mueang
Rayong, Rayong Thailand 21150

P/O : PMM-23-11

Project Name : Environmental Monitoring

Project Location : HD 4

Lot ID: 2352820

Date Received : May 25, 2023

Date Reported : May 29, 2023

Report Number: 2664333-1

Page 1 of 1

Sample Number 2352820-1
Parameter Noise (Leq 12 hrs.)
Location หน่วยผลิตโพลีเมอร์ (Polymerization Unit)
Measurement Date May 23, 2023
Measurement by Prasarnmit Kueanpet

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
10:00 AM - 11:00 AM	83.0	85.6	82.8
11:00 AM - 12:00 PM	82.9	83.3	82.8
12:00 PM - 01:00 PM	82.9	83.5	82.7
01:00 PM - 02:00 PM	82.9	83.5	82.8
02:00 PM - 03:00 PM	83.0	83.7	82.9
03:00 PM - 04:00 PM	83.1	83.6	83.0
04:00 PM - 05:00 PM	83.1	83.9	83.0
05:00 PM - 06:00 PM	83.3	85.2	83.2
06:00 PM - 07:00 PM	83.4	84.1	83.2
07:00 PM - 08:00 PM	82.9	83.6	82.7
08:00 PM - 09:00 PM	82.6	83.3	82.4
09:00 PM - 10:00 PM	82.4	83.1	82.2

Leq Average 12 hrs. (dB(A))

83.0

Lmax (dB(A))

85.6

Standard (dB(A))

87

140

Reference Method : ISO1996-1 and 1996-2

Standard : ประกาศกระทรวงอุตสาหกรรม เรื่อง มาตรการคุ้มครองความปลอดภัย
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Technical Management

Thanita K.

Thanita Kulsuriwong
Scientist (4)

Approved by

Supot S.

Supot Salamteh
Section Head

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Analysis / Test Report

Client : Thai Polyethylene Co., Ltd.

88/4-5, Map Ta Phut Industrial Estate, Rayong - Highway 3191 Road, Map Ta Phut, Mueang
Rayong, Rayong Thailand 21150

P/O : PMM-23-11

Project Name : Environmental Monitoring

Project Location : HD 4

Lot ID: 2352820

Date Received : May 25, 2023

Date Reported : May 29, 2023

Report Number: 2664334-1

Page 1 of 1

Sample Number 2352820-2
Parameter Noise (Leq 12 hrs.)
Location หน่วยตัดเม็ด (Pelletization Unit) ของโรงงาน HDPE4
Measurement Date May 23, 2023
Measurement by Prasarnmit Kueanpet

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
10:20 AM - 11:20 AM	83.4	85.7	82.9
11:20 AM - 12:20 PM	83.5	86.8	82.9
12:20 PM - 01:20 PM	83.2	84.2	83.0
01:20 PM - 02:20 PM	83.1	87.9	82.9
02:20 PM - 03:20 PM	83.3	85.9	83.0
03:20 PM - 04:20 PM	83.1	87.7	82.9
04:20 PM - 05:20 PM	82.9	83.9	82.7
05:20 PM - 06:20 PM	83.3	87.2	82.9
06:20 PM - 07:20 PM	83.2	84.1	83.0
07:20 PM - 08:20 PM	83.3	84.2	83.1
08:20 PM - 09:20 PM	82.8	83.7	82.6
09:20 PM - 10:20 PM	83.6	84.5	83.4

Leq Average 12 hrs. (dB(A))

83.2

Lmax (dB(A))

87.9

Standard (dB(A))

87

140

Reference Method : ISO1996-1 and 1996-2

Standard : ประกาศกระทรวงอุตสาหกรรม เรื่อง มาตรการคุ้มครองความปลอดภัย
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Technical Management

Thanita K.

Thanita Kulsuriwong
Scientist (4)

Approved by

Supot S.

Supot Salamteh
Section Head

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Analysis / Test Report

Client : Thai Polyethylene Co., Ltd.

88/4-5, Map Ta Phut Industrial Estate, Rayong - Highway 3191 Road, Map Ta Phut,
Mueang Rayong, Rayong Thailand 21150

P/O : PMM-23-11

Project Name : Environmental Monitoring

Project Location : HD 4

Lot ID: 2352821

Date Received : May 25, 2023

Date Reported : May 31, 2023

Report Number : 2669236-1

Page 1 of 1

Sample Number 2352821-1
Parameter Octave Band (12 hrs.)
Location หน่วยผลิตโพลีเมอร์ (Polymerization Unit)
Measurement Date May 23, 2023
Measurement By Prasanmit Kueanpet

Time	Result (dB(A))											
	Leq	16 Hz	31.5 Hz	63 Hz	125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	8 kHz	16 kHz
10:00 AM - 11:00 AM	83.0	24.1	40.1	52.4	67.4	71.0	76.2	77.7	77.2	73.9	65.9	48.3
11:00 AM - 12:00 PM	82.9	24.1	40.0	52.0	67.0	70.6	76.1	77.6	77.2	73.9	65.9	48.2
12:00 PM - 01:00 PM	82.9	24.0	39.9	52.0	67.0	70.6	76.0	77.5	77.2	73.9	66.0	48.3
01:00 PM - 02:00 PM	82.9	23.9	40.1	52.1	66.9	70.7	76.1	77.5	77.2	73.9	66.0	48.2
02:00 PM - 03:00 PM	83.0	23.5	40.4	52.4	67.5	70.8	76.2	77.7	77.2	74.1	66.1	48.5
03:00 PM - 04:00 PM	83.1	23.7	40.6	52.5	67.7	70.9	76.3	77.7	77.2	74.1	65.9	48.4
04:00 PM - 05:00 PM	83.1	23.6	40.3	52.5	67.3	71.0	76.5	77.8	77.3	74.0	65.9	48.5
05:00 PM - 06:00 PM	83.3	23.7	40.4	52.6	67.2	71.2	76.7	78.0	77.5	74.2	65.8	48.5
06:00 PM - 07:00 PM	83.4	24.0	40.6	52.7	67.2	71.3	76.8	78.1	77.5	74.2	65.7	48.5
07:00 PM - 08:00 PM	82.9	23.5	40.1	52.2	66.7	70.8	76.3	77.6	77.0	73.7	65.2	48.0
08:00 PM - 09:00 PM	82.6	23.2	39.8	51.9	66.4	70.5	76.0	77.3	76.7	73.4	64.9	47.7
09:00 PM - 10:00 PM	82.4	23.0	39.6	51.7	66.2	70.3	75.8	77.1	76.5	73.2	64.7	47.5
Average	83.0	23.7	40.2	52.3	67.1	70.8	76.3	77.6	77.2	73.9	65.7	48.2

Reference Method : ANSI Standard S1.6-1984

Technical Management

Orawan R.

Orawan Rakyong
Scientist (3)

Approved by

Supot S.

Supot Salamteh
Section Head

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Analysis / Test Report

Client : Thai Polyethylene Co., Ltd.

88/4-5, Map Ta Phut Industrial Estate, Rayong - Highway 3191 Road, Map Ta Phut,
Mueang Rayong, Rayong Thailand 21150

P/O : PMM-23-11

Project Name : Environmental Monitoring

Project Location : HD 4

Lot ID: 2352821

Date Received : May 25, 2023

Date Reported : May 31, 2023

Report Number : 2669237-1

Page 1 of 1

Sample Number 2352821-2
Parameter Octave Band (12 hrs.)
Location หน่วยตัดเม็ด (Pelletization Unit) ของโรงงาน HDPE4
Measurement Date May 23, 2023
Measurement By Prasanmit Kueanpet

Time	Result (dB(A))											
	Leq	16 Hz	31.5 Hz	63 Hz	125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	8 kHz	16 kHz
10:20 AM - 11:20 AM	83.4	29.6	39.1	51.1	61.1	68.0	72.3	75.5	76.9	78.0	76.0	66.1
11:20 AM - 12:20 PM	83.5	30.2	38.7	51.0	61.0	67.8	72.5	75.2	76.9	78.3	76.4	66.8
12:20 PM - 01:20 PM	83.2	30.6	38.5	50.7	60.9	67.7	72.1	75.0	76.9	77.9	75.9	65.7
01:20 PM - 02:20 PM	83.1	30.9	38.5	50.7	61.0	67.5	72.0	74.9	76.8	77.9	75.8	65.7
02:20 PM - 03:20 PM	83.3	30.9	40.6	51.2	61.1	67.7	71.7	74.8	76.8	78.4	76.1	65.8
03:20 PM - 04:20 PM	83.1	30.3	43.0	55.5	63.8	68.5	72.1	74.9	76.7	77.9	75.7	65.7
04:20 PM - 05:20 PM	82.9	30.0	40.2	51.4	61.2	67.9	71.8	74.5	76.5	77.5	75.6	65.9
05:20 PM - 06:20 PM	83.3	30.7	39.5	51.4	61.5	68.0	71.9	75.1	76.8	78.2	76.0	66.0
06:20 PM - 07:20 PM	83.2	31.4	39.7	51.5	61.7	68.1	71.7	75.1	76.6	78.2	76.0	66.2
07:20 PM - 08:20 PM	83.3	31.5	39.8	51.6	61.8	68.2	71.8	75.2	76.7	78.3	76.1	66.3
08:20 PM - 09:20 PM	82.8	31.0	39.3	51.1	61.3	67.7	71.3	74.7	76.2	77.8	75.6	65.8
09:20 PM - 10:20 PM	83.6	31.8	40.1	51.9	62.1	68.5	72.1	75.5	77.0	78.6	76.4	66.6
Average	83.2	30.8	39.9	51.8	61.6	68.0	72.0	75.0	76.7	78.1	76.0	66.1

Reference Method : ANSI Standard S1.6-1984

Technical Management

Orawan R.

Orawan Rakyong
Scientist (3)

Approved by

Supot S.

Supot Salamteh
Section Head

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ภาคผนวก ค-8

ระดับความร้อนในสถานประกอบการ

ระดับความร้อนในสถานประกอบการ ของโรงงาน PP3



Analysis / Test Report

Client : Thai Polyethylene Co., Ltd.

88/4-5, Map Ta Phut Industrial Estate, Rayong - Highway 3191 Road, Map Ta Phut, Mueang Rayong, Rayong Thailand 21150

P/O :

Project Name : Environmental Monitoring

Project Location : PP3

Lot ID: 2325054

Date Received : Apr 24, 2023

Date Reported : Apr 26, 2023

Report Number: 2602323-1

Page 1 of 1

Sample Number 2325054-1
Parameter Heat Stress (Sampling Time : 01.30 PM - 03.30 PM)
Measurement Date Apr 20, 2023
Measurement by Natthapon Jiengwareewong
Location ปฏิบัติงาน 1 พื้นที่ (ชื่อ-นามสกุล ผู้ปฏิบัติงาน : - แผนก : -)

Location	Duration (min)	WBGT (°C)	NWB (°C)	GT (°C)	DB (°C)
หน่วยตัดเม็ด (Pelletization Unit) ของโรงงาน PP3	120	29.5	26.7	36.1	35.8
Average (WBGT)		29.5			
Guideline WBGT (°C)		34.0			

Reference Method : Wet Bulb Globe Temperature

Guideline:

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

Technical Management

Supot Salamteh
Section Head

Approved by

Wichan Choonharat
Assistant Manager

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ระดับความร้อนในสถานประกอบการ ของโรงงาน HDPE4



Analysis / Test Report

Client : Thai Polyethylene Co., Ltd.

88/4-5, Map Ta Phut Industrial Estate, Rayong - Highway 3191 Road, Map Ta Phut, Mueang Rayong, Rayong Thailand 21150

P/O :

Project Name : Environmental Monitoring

Project Location : HD 4

Lot ID: 2332577

Date Received : May 25, 2023

Date Reported : May 29, 2023

Report Number: 2602324-1

Page 1 of 1

Sample Number 2332577-1
Parameter Heat Stress (Sampling Time : 10.00 AM - 12.00 PM)
Measurement Date May 23, 2023
Measurement by Natthapon Jiengwareewong
Location ปฏิบัติงาน 1 พื้นที่ (ชื่อ-นามสกุล ผู้ปฏิบัติงาน : - แผนก : -)

Location	Duration (min)	WBGT (°C)	NWB (°C)	GT (°C)	DB (°C)
หน่วยตัดเม็ด (Pelletization Unit) ของโรงงาน	120	30.9	28.2	37.1	36.3
Average (WBGT)		30.9			
Guideline WBGT (°C)		34.0			

Reference Method : Wet Bulb Globe Temperature

Guideline:

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

Technical Management

Supot Salamteh
Section Head

Approved by

Wichan Choonharat
Assistant Manager

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