

ภาคผนวก ค

ใบรับรองผลการตรวจวิเคราะห์

คุณภาพอากาศในบรรยากาศ



Analysis / Test Report

Client : Thai Polyethylene Co., Ltd.

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

P/O : PMM-23-11

Project Name : Environmental Monitoring

Project Location : TPE Site 3

Lot ID: 2444370

Date Received : May 28, 2024

Date Reported : Jun 03, 2024

Report Number: 3011065-1

Page 1 of 1

Sample Description Air Quality
Location พื้นที่โรงงาน (GPS 47P 0733546, 1406890)
Parameter Nitrogen dioxide (ppm)
Measurement Date May 13, 2024 - May 20, 2024
Measurement by Anuwet Tema

	2444370-1 May 13, 2024	2444370-2 May 14, 2024	2444370-3 May 15, 2024	2444370-4 May 16, 2024	2444370-5 May 17, 2024	2444370-6 May 18, 2024	2444370-7 May 19, 2024
Time							
12:00 PM - 01:00 PM	<0.001	0.001	0.005	0.003	0.003	0.004	0.001
01:00 PM - 02:00 PM	0.004	0.001	0.001	0.004	0.005	0.003	<0.001
02:00 PM - 03:00 PM	0.001	<0.001	<0.001	0.003	0.010	0.003	<0.001
03:00 PM - 04:00 PM	0.003	<0.001	<0.001	0.003	0.004	0.005	<0.001
04:00 PM - 05:00 PM	0.003	<0.001	0.002	0.011	0.004	0.010	<0.001
05:00 PM - 06:00 PM	0.002	<0.001	0.003	0.006	0.004	0.013	0.004
06:00 PM - 07:00 PM	0.004	<0.001	0.002	0.009	0.004	0.009	0.002
07:00 PM - 08:00 PM	0.008	<0.001	0.008	0.023	0.007	0.006	<0.001
08:00 PM - 09:00 PM	0.006	<0.001	0.009	0.022	0.004	0.002	<0.001
09:00 PM - 10:00 PM	0.003	<0.001	<0.001	0.011	0.002	0.002	<0.001
10:00 PM - 11:00 PM	0.002	<0.001	0.013	0.004	<0.001	<0.001	<0.001
11:00 PM - 12:00 AM	0.001	<0.001	0.015	0.002	<0.001	0.001	<0.001
12:00 AM - 01:00 AM	0.001	<0.001	0.007	0.002	<0.001	0.002	<0.001
01:00 AM - 02:00 AM	0.001	<0.001	0.003	0.002	0.001	0.006	<0.001
02:00 AM - 03:00 AM	0.001	<0.001	<0.001	0.002	<0.001	0.001	<0.001
03:00 AM - 04:00 AM	0.001	<0.001	<0.001	0.002	<0.001	0.002	<0.001
04:00 AM - 05:00 AM	0.001	<0.001	<0.001	0.001	<0.001	0.003	<0.001
05:00 AM - 06:00 AM	<0.001	<0.001	<0.001	0.002	0.002	0.002	0.002
06:00 AM - 07:00 AM	0.008	0.003	0.011	0.006	0.006	0.004	0.014
07:00 AM - 08:00 AM	0.016	0.015	0.018	0.019	0.013	0.004	0.032
08:00 AM - 09:00 AM	0.013	0.003	0.004	0.008	0.020	0.003	0.014
09:00 AM - 10:00 AM	0.016	<0.001	0.004	0.004	0.017	<0.001	0.001
10:00 AM - 11:00 AM	0.002	0.003	0.004	0.024	0.004	0.001	<0.001
11:00 AM - 12:00 PM	0.001	0.004	0.005	0.006	0.003	<0.001	<0.001
Average	0.004	0.002	0.005	0.008	0.005	0.004	0.003
1hr - Maximum	0.016	0.015	0.018	0.024	0.020	0.013	0.032
Standard 1hr - Average	0.170	0.170	0.170	0.170	0.170	0.170	0.170

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

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

Approved by

Orawan R.

Orawan Rakyong

Scientist (3)

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. No part of this report 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.

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand | PHONE +66 0 2760 3000 | FAX +66 0 2760 3197
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



Analysis / Test Report

Client : Thai Polyethylene Co., Ltd.

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

P/O : PMM-23-11

Project Name : Environmental Monitoring

Project Location : TPE Site 3

Lot ID: 2444370

Date Received : May 28, 2024

Date Reported : Jun 03, 2024

Report Number: 3011067-1

Page 1 of 1

Sample Description Air Quality
Location วัดหนองแฟบห้วยคชฉัตราราม (GPS 47P0729825, 1403308)
Parameter Nitrogen dioxide (ppm)
Measurement Date May 13, 2024 - May 20, 2024
Measurement by Anuwet Tema

	2444370-8 May 13, 2024	2444370-9 May 14, 2024	2444370-10 May 15, 2024	2444370-11 May 16, 2024	2444370-12 May 17, 2024	2444370-13 May 18, 2024	2444370-14 May 19, 2024
Time							
11:00 AM - 12:00 PM	<0.001	0.001	0.005	0.002	0.002	<0.001	0.002
12:00 PM - 01:00 PM	<0.001	<0.001	0.005	0.002	0.004	<0.001	<0.001
01:00 PM - 02:00 PM	0.001	0.002	0.006	0.001	0.002	<0.001	0.002
02:00 PM - 03:00 PM	<0.001	<0.001	0.002	0.002	0.004	<0.001	<0.001
03:00 PM - 04:00 PM	0.004	0.001	0.003	0.001	0.004	<0.001	<0.001
04:00 PM - 05:00 PM	0.001	<0.001	0.002	0.002	0.004	<0.001	<0.001
05:00 PM - 06:00 PM	0.002	<0.001	0.003	0.002	0.005	<0.001	<0.001
06:00 PM - 07:00 PM	0.002	0.003	0.002	0.002	0.004	<0.001	<0.001
07:00 PM - 08:00 PM	0.002	0.003	0.002	0.002	0.003	<0.001	<0.001
08:00 PM - 09:00 PM	0.002	0.003	0.003	0.002	0.002	<0.001	<0.001
09:00 PM - 10:00 PM	0.001	0.003	<0.001	0.002	0.004	<0.001	<0.001
10:00 PM - 11:00 PM	0.001	0.003	0.002	0.002	0.003	<0.001	<0.001
11:00 PM - 12:00 AM	<0.001	0.002	<0.001	0.002	0.002	<0.001	<0.001
12:00 AM - 01:00 AM	0.001	0.002	0.002	0.003	0.002	0.001	<0.001
01:00 AM - 02:00 AM	<0.001	0.002	0.002	0.003	0.002	<0.001	<0.001
02:00 AM - 03:00 AM	0.002	0.002	0.002	0.003	0.002	0.001	<0.001
03:00 AM - 04:00 AM	0.002	0.002	0.002	0.002	0.002	<0.001	<0.001
04:00 AM - 05:00 AM	0.002	0.002	0.002	0.002	0.002	<0.001	<0.001
05:00 AM - 06:00 AM	0.003	0.002	<0.001	0.002	0.003	<0.001	<0.001
06:00 AM - 07:00 AM	0.003	0.002	<0.001	0.003	0.003	<0.001	<0.001
07:00 AM - 08:00 AM	0.003	0.002	0.001	0.002	0.004	<0.001	<0.001
08:00 AM - 09:00 AM	0.004	0.002	<0.001	0.002	0.004	<0.001	<0.001
09:00 AM - 10:00 AM	0.005	0.004	<0.001	0.003	0.004	<0.001	<0.001
10:00 AM - 11:00 AM	0.003	0.003	0.006	0.003	0.004	<0.001	0.002
Average	0.002	0.002	0.002	0.002	0.003	<0.001	<0.001
1hr - Maximum	0.005	0.004	0.006	0.003	0.005	0.001	0.002
Standard 1hr - Average	0.170	0.170	0.170	0.170	0.170	0.170	0.170

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

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

Approved by

Orawan R.

Orawan Rakyong

Scientist (3)

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. No part of this report 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.

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand | PHONE +66 0 2760 3000 | FAX +66 0 2760 3197
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



Analysis / Test Report

Client : Thai Polyethylene Co., Ltd.

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

P/O : PMM-23-11

Project Name : Environmental Monitoring

Project Location : TPE Site 3

Lot ID: 2444373

Date Received : May 28, 2024

Date Reported : Jun 04, 2024

Report Number: 2971403-1

Page 1 of 1

Sample Description Air Quality
Location โรงเรียนบ้านมาบตาพุด (โศภณราษฎร์นุรักษ์) (GPS 47P 0735343, 1406686)
Parameter Nitrogen dioxide (ppm)
Measurement Date May 13, 2024 - May 20, 2024
Measurement by Anuwet Tema

	2444373-1 May 13, 2024	2444373-2 May 14, 2024	2444373-3 May 15, 2024	2444373-4 May 16, 2024	2444373-5 May 17, 2024	2444373-6 May 18, 2024	2444373-7 May 19, 2024
Time							
10:00 AM - 11:00 AM	0.007	0.004	0.002	0.007	0.014	0.016	0.004
11:00 AM - 12:00 PM	0.006	0.003	0.005	0.007	0.008	0.007	0.003
12:00 PM - 01:00 PM	<0.001	0.003	0.008	0.003	0.006	0.013	0.005
01:00 PM - 02:00 PM	0.013	0.002	0.009	0.004	0.006	0.014	0.005
02:00 PM - 03:00 PM	0.007	0.002	0.003	0.002	0.006	0.008	0.004
03:00 PM - 04:00 PM	0.004	0.002	0.002	0.002	0.010	0.007	0.003
04:00 PM - 05:00 PM	0.003	0.002	0.001	0.003	0.012	0.006	0.004
05:00 PM - 06:00 PM	0.003	0.001	0.002	0.004	0.014	0.006	0.004
06:00 PM - 07:00 PM	0.003	0.001	0.002	0.005	0.007	0.006	0.003
07:00 PM - 08:00 PM	0.003	0.001	0.002	0.006	0.003	0.003	0.003
08:00 PM - 09:00 PM	0.004	0.001	0.003	0.009	0.002	0.004	0.002
09:00 PM - 10:00 PM	0.006	0.002	0.002	0.013	0.002	0.003	0.004
10:00 PM - 11:00 PM	0.005	0.002	0.002	0.006	0.002	0.002	0.004
11:00 PM - 12:00 AM	0.003	0.002	0.002	0.004	0.001	0.002	0.003
12:00 AM - 01:00 AM	0.002	0.002	0.001	0.003	0.001	0.002	0.002
01:00 AM - 02:00 AM	0.002	0.002	0.002	0.002	0.001	0.001	0.002
02:00 AM - 03:00 AM	0.002	0.001	0.002	0.002	0.001	0.001	0.002
03:00 AM - 04:00 AM	0.002	0.002	0.002	0.002	0.002	0.003	0.002
04:00 AM - 05:00 AM	0.002	0.002	0.002	0.002	0.002	0.002	0.002
05:00 AM - 06:00 AM	0.002	0.002	0.002	0.002	0.001	0.002	0.002
06:00 AM - 07:00 AM	0.002	0.004	0.003	0.002	0.003	0.002	0.004
07:00 AM - 08:00 AM	0.004	0.006	0.008	0.008	0.007	0.004	0.015
08:00 AM - 09:00 AM	0.004	0.003	0.005	0.006	0.005	0.004	0.012
09:00 AM - 10:00 AM	0.004	0.002	0.005	0.005	0.005	0.005	0.007
Average	0.004	0.002	0.003	0.005	0.005	0.005	0.004
1hr - Maximum	0.013	0.006	0.009	0.013	0.014	0.016	0.015
Standard 1hr - Average	0.170	0.170	0.170	0.170	0.170	0.170	0.170

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

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

Approved by

Orawan R.

Orawan Rakyong

Scientist (3)

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. No part of this report 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.

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand | PHONE +66 0 2760 3000 | FAX +66 0 2760 3197
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



Analysis / Test Report

Client : Thai Polyethylene Co., Ltd.
271, Sukhumvit Road, Tambol Map Ta Phut, Amphur Muang, Rayong Thailand 21150
P/O : PMM-23-11
Project Name : Environmental Monitoring
Project Location : TPE Site 3

Lot ID: 2444660

Date Received : May 27, 2024

Date Reported : Jun 01, 2024

Report Number : 2971409-1

Page 1 of 14

Sample Number : 2444660-1
Sampled Date : May 13, 2024
Sample Description : Air Quality
Location : พื้นที่โรงงาน (GPS 47P 0733546, 1406890)
Date Analysis Commenced : May 28, 2024
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							
Non-Methane Hydrocarbon	13/05/24 - 14/05/24	ppm	-	1.0	2.1	Total Hydrocarbon Analyzer (FID)	Rayong

Sampled By : Anuwet Tema

Remark :

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

Approved by

Thanita K.

Thanita Kulsuriwong
Scientist (4)

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. No part of this report 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.

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Pluakdaeng Rayong 21140 Thailand | PHONE +66 0 3304 8555 | FAX +66 0 3304 8556
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



Analysis / Test Report

Client : Thai Polyethylene Co., Ltd.
271, Sukhumvit Road, Tambol Map Ta Phut, Amphur Muang, Rayong Thailand 21150
P/O : PMM-23-11
Project Name : Environmental Monitoring
Project Location : TPE Site 3

Lot ID: 2444660

Date Received : May 27, 2024

Date Reported : Jun 01, 2024

Report Number : 2971409-1

Page 2 of 14

Sample Number : 2444660-2
Sampled Date : May 14, 2024
Sample Description : Air Quality
Location : พื้นที่โรงงาน (GPS 47P 0733546, 1406890)
Date Analysis Commenced : May 28, 2024
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							
Non-Methane Hydrocarbon	14/05/24 - 15/05/24	ppm	-	1.0	1.4	Total Hydrocarbon Analyzer (FID)	Rayong

Sampled By : Anuwet Tema

Remark :

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

Approved by

Thanita K.

Thanita Kulsuriwong
Scientist (4)

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. No part of this report 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.

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Pluakdaeng Rayong 21140 Thailand | PHONE +66 0 3304 8555 | FAX +66 0 3304 8556
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



Analysis / Test Report

Client : Thai Polyethylene Co., Ltd.
271, Sukhumvit Road, Tambol Map Ta Phut, Amphur Muang, Rayong Thailand 21150
P/O : PMM-23-11
Project Name : Environmental Monitoring
Project Location : TPE Site 3

Lot ID: 2444660

Date Received : May 27, 2024

Date Reported : Jun 01, 2024

Report Number : 2971409-1

Page 3 of 14

Sample Number : 2444660-3
Sampled Date : May 15, 2024
Sample Description : Air Quality
Location : พื้นที่โรงงาน (GPS 47P 0733546, 1406890)
Date Analysis Commenced : May 28, 2024
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							
Non-Methane Hydrocarbon	15/05/24 - 16/05/24	ppm	-	1.0	1.9	Total Hydrocarbon Analyzer (FID)	Rayong

Sampled By : Anuwet Tema

Remark :

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

Approved by

Thanita K.

Thanita Kulsuriwong
Scientist (4)

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. No part of this report 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.

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Pluakdaeng Rayong 21140 Thailand | PHONE +66 0 3304 8555 | FAX +66 0 3304 8556
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



Analysis / Test Report

Client : Thai Polyethylene Co., Ltd.

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

P/O : PMM-23-11

Project Name : Environmental Monitoring

Project Location : TPE Site 3

Lot ID: 2444660

Date Received : May 27, 2024

Date Reported : Jun 01, 2024

Report Number : 2971409-1

Page 4 of 14

Sample Number 2444660-4
Sampled Date May 16, 2024
Sample Description Air Quality
Location พื้นที่โรงงาน (GPS 47P 0733546, 1406890)
Date Analysis Commenced May 28, 2024
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							
Non-Methane Hydrocarbon	16/05/24 - 17/05/24	ppm	-	1.0	2.0	Total Hydrocarbon Analyzer (FID)	Rayong

Sampled By : Anuwet Tema

Remark :

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

Approved by

Thanita K.

Thanita Kulsuriwong
Scientist (4)

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. No part of this report 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.

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Pluakdaeng Rayong 21140 Thailand | PHONE +66 0 3304 8555 | FAX +66 0 3304 8556
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



Analysis / Test Report

Client : Thai Polyethylene Co., Ltd.
271, Sukhumvit Road, Tambol Map Ta Phut, Amphur Muang, Rayong Thailand 21150
P/O : PMM-23-11
Project Name : Environmental Monitoring
Project Location : TPE Site 3

Lot ID: 2444660

Date Received : May 27, 2024
Date Reported : Jun 01, 2024
Report Number : 2971409-1

Page 5 of 14

Sample Number : 2444660-5
Sampled Date : May 17, 2024
Sample Description : Air Quality
Location : พื้นที่โรงงาน (GPS 47P 0733546, 1406890)
Date Analysis Commenced : May 28, 2024
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							
Non-Methane Hydrocarbon	17/05/24 - 18/05/24	ppm	-	1.0	1.1	Total Hydrocarbon Analyzer (FID)	Rayong

Sampled By : Anuwet Tema

Remark :

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

Approved by

Thanita K.

Thanita Kulsuriwong
Scientist (4)

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. No part of this report 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.

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Pluakdaeng Rayong 21140 Thailand | PHONE +66 0 3304 8555 | FAX +66 0 3304 8556
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



Analysis / Test Report

Client : Thai Polyethylene Co., Ltd.
271, Sukhumvit Road, Tambol Map Ta Phut, Amphur Muang, Rayong Thailand 21150
P/O : PMM-23-11
Project Name : Environmental Monitoring
Project Location : TPE Site 3

Lot ID: 2444660

Date Received : May 27, 2024

Date Reported : Jun 01, 2024

Report Number : 2971409-1

Page 6 of 14

Sample Number : 2444660-6
Sampled Date : May 18, 2024
Sample Description : Air Quality
Location : พื้นที่โรงงาน (GPS 47P 0733546, 1406890)
Date Analysis Commenced : May 28, 2024
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							
Non-Methane Hydrocarbon	18/05/24 - 19/05/24	ppm	-	1.0	1.8	Total Hydrocarbon Analyzer (FID)	Rayong

Sampled By : Anuwet Tema

Remark :

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

Approved by

Thanita K.

Thanita Kulsuriwong
Scientist (4)

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. No part of this report 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.

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Pluakdaeng Rayong 21140 Thailand | PHONE +66 0 3304 8555 | FAX +66 0 3304 8556
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



Analysis / Test Report

Client : Thai Polyethylene Co., Ltd.
271, Sukhumvit Road, Tambol Map Ta Phut, Amphur Muang, Rayong Thailand 21150
P/O : PMM-23-11
Project Name : Environmental Monitoring
Project Location : TPE Site 3

Lot ID: 2444660

Date Received : May 27, 2024

Date Reported : Jun 01, 2024

Report Number : 2971409-1

Page 7 of 14

Sample Number : 2444660-7
Sampled Date : May 19, 2024
Sample Description : Air Quality
Location : พื้นที่โรงงาน (GPS 47P 0733546, 1406890)
Date Analysis Commenced : May 28, 2024
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							
Non-Methane Hydrocarbon	19/05/24 - 20/05/24	ppm	-	1.0	1.5	Total Hydrocarbon Analyzer (FID)	Rayong

Sampled By : Anuwet Tema

Remark :

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

Approved by

Thanita K.

Thanita Kulsuriwong
Scientist (4)

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. No part of this report 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.

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Pluakdaeng Rayong 21140 Thailand | PHONE +66 0 3304 8555 | FAX +66 0 3304 8556
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



Analysis / Test Report

Client : Thai Polyethylene Co., Ltd.
271, Sukhumvit Road, Tambol Map Ta Phut, Amphur Muang, Rayong Thailand 21150
P/O : PMM-23-11
Project Name : Environmental Monitoring
Project Location : TPE Site 3

Lot ID: 2444660

Date Received : May 27, 2024

Date Reported : Jun 01, 2024

Report Number : 2971409-1

Page 8 of 14

Sample Number : 2444660-8
Sampled Date : May 13, 2024
Sample Description : Air Quality
Location : วัดหนองแฟบทักษิณาราม (GPS 47P 0729825, 1403308)
Date Analysis Commenced : May 28, 2024
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							
Non-Methane Hydrocarbon	13/05/24 - 14/05/24	ppm	-	1.0	<1.0	Total Hydrocarbon Analyzer (FID)	Rayong

Sampled By : Anuwet Tema

Remark :

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

Approved by

Thanita K.

Thanita Kulsuriwong
Scientist (4)

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. No part of this report 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.

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Pluakdaeng Rayong 21140 Thailand | PHONE +66 0 3304 8555 | FAX +66 0 3304 8556
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



Analysis / Test Report

Client : Thai Polyethylene Co., Ltd.
271, Sukhumvit Road, Tambol Map Ta Phut, Amphur Muang, Rayong Thailand 21150
P/O : PMM-23-11
Project Name : Environmental Monitoring
Project Location : TPE Site 3

Lot ID: 2444660

Date Received : May 27, 2024

Date Reported : Jun 01, 2024

Report Number : 2971409-1

Page 9 of 14

Sample Number : 2444660-9
Sampled Date : May 14, 2024
Sample Description : Air Quality
Location : วัดหนองแฟบทักษิณาราม (GPS 47P 0729825, 1403308)
Date Analysis Commenced : May 28, 2024
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							
Non-Methane Hydrocarbon	14/05/24 - 15/05/24	ppm	-	1.0	1.3	Total Hydrocarbon Analyzer (FID)	Rayong

Sampled By : Anuwet Tema

Remark :

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

Approved by

Thanita K.

Thanita Kulsuriwong
Scientist (4)

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. No part of this report 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.

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Pluakdaeng Rayong 21140 Thailand | PHONE +66 0 3304 8555 | FAX +66 0 3304 8556
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



Analysis / Test Report

Client : Thai Polyethylene Co., Ltd.
271, Sukhumvit Road, Tambol Map Ta Phut, Amphur Muang, Rayong Thailand 21150
P/O : PMM-23-11
Project Name : Environmental Monitoring
Project Location : TPE Site 3

Lot ID: 2444660

Date Received : May 27, 2024
Date Reported : Jun 01, 2024
Report Number : 2971409-1

Page 10 of 14

Sample Number : 2444660-10
Sampled Date : May 15, 2024
Sample Description : Air Quality
Location : วัดหนองแฟบทักษิณาราม (GPS 47P 0729825, 1403308)
Date Analysis Commenced : May 28, 2024
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							
Non-Methane Hydrocarbon	15/05/24 - 16/05/24	ppm	-	1.0	1.2	Total Hydrocarbon Analyzer (FID)	Rayong

Sampled By : Anuwet Tema

Remark :

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

Approved by

Thanita K.

Thanita Kulsuriwong
Scientist (4)

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. No part of this report 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.

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Pluakdaeng Rayong 21140 Thailand | PHONE +66 0 3304 8555 | FAX +66 0 3304 8556
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



Analysis / Test Report

Client : Thai Polyethylene Co., Ltd.
271, Sukhumvit Road, Tambol Map Ta Phut, Amphur Muang, Rayong Thailand 21150
P/O : PMM-23-11
Project Name : Environmental Monitoring
Project Location : TPE Site 3

Lot ID: 2444660

Date Received : May 27, 2024
Date Reported : Jun 01, 2024
Report Number : 2971409-1

Page 11 of 14

Sample Number : 2444660-11
Sampled Date : May 16, 2024
Sample Description : Air Quality
Location : วัดหนองแฟบทักษิณาราม (GPS 47P 0729825, 1403308)
Date Analysis Commenced : May 28, 2024
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							
Non-Methane Hydrocarbon	16/05/24 - 17/05/24	ppm	-	1.0	2.4	Total Hydrocarbon Analyzer (FID)	Rayong

Sampled By : Anuwet Tema

Remark :

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

Approved by

Thanita K.

Thanita Kulsuriwong
Scientist (4)

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. No part of this report 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.

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Pluakdaeng Rayong 21140 Thailand | PHONE +66 0 3304 8555 | FAX +66 0 3304 8556
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



Analysis / Test Report

Client : Thai Polyethylene Co., Ltd.
271, Sukhumvit Road, Tambol Map Ta Phut, Amphur Muang, Rayong Thailand 21150
P/O : PMM-23-11
Project Name : Environmental Monitoring
Project Location : TPE Site 3

Lot ID: 2444660

Date Received : May 27, 2024
Date Reported : Jun 01, 2024
Report Number : 2971409-1

Page 12 of 14

Sample Number : 2444660-12
Sampled Date : May 17, 2024
Sample Description : Air Quality
Location : วัดหนองแฟบทักษิณาราม (GPS 47P 0729825, 1403308)
Date Analysis Commenced : May 28, 2024
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							
Non-Methane Hydrocarbon	17/05/24 - 18/05/24	ppm	-	1.0	1.0	Total Hydrocarbon Analyzer (FID)	Rayong

Sampled By : Anuwet Tema

Remark :

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

Approved by

Thanita K.

Thanita Kulsuriwong
Scientist (4)

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. No part of this report 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.

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Pluakdaeng Rayong 21140 Thailand | PHONE +66 0 3304 8555 | FAX +66 0 3304 8556
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



Analysis / Test Report

Client : Thai Polyethylene Co., Ltd.
271, Sukhumvit Road, Tambol Map Ta Phut, Amphur Muang, Rayong Thailand 21150
P/O : PMM-23-11
Project Name : Environmental Monitoring
Project Location : TPE Site 3

Lot ID: 2444660

Date Received : May 27, 2024
Date Reported : Jun 01, 2024
Report Number : 2971409-1

Page 13 of 14

Sample Number : 2444660-13
Sampled Date : May 18, 2024
Sample Description : Air Quality
Location : วัดหนองแฟบทักษิณาราม (GPS 47P 0729825, 1403308)
Date Analysis Commenced : May 28, 2024
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							
Non-Methane Hydrocarbon	18/05/24 - 19/05/24	ppm	-	1.0	1.4	Total Hydrocarbon Analyzer (FID)	Rayong

Sampled By : Anuwet Tema

Remark :

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

Approved by

Thanita K.

Thanita Kulsuriwong
Scientist (4)

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. No part of this report 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.

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Pluakdaeng Rayong 21140 Thailand | PHONE +66 0 3304 8555 | FAX +66 0 3304 8556
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



Analysis / Test Report

Client : Thai Polyethylene Co., Ltd.
271, Sukhumvit Road, Tambol Map Ta Phut, Amphur Muang, Rayong Thailand 21150
P/O : PMM-23-11
Project Name : Environmental Monitoring
Project Location : TPE Site 3

Lot ID: 2444660

Date Received : May 27, 2024

Date Reported : Jun 01, 2024

Report Number : 2971409-1

Page 14 of 14

Sample Number : 2444660-14
Sampled Date : May 19, 2024
Sample Description : Air Quality
Location : วัดหนองแฟบทักษิณาราม (GPS 47P 0729825, 1403308)
Date Analysis Commenced : May 28, 2024
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							
Non-Methane Hydrocarbon	19/05/24 - 20/05/24	ppm	-	1.0	2.9	Total Hydrocarbon Analyzer (FID)	Rayong

Sampled By : Anuwet Tema

Remark :

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

Approved by

Thanita K.

Thanita Kulsuriwong
Scientist (4)

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. No part of this report 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.

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Pluakdaeng Rayong 21140 Thailand | PHONE +66 0 3304 8555 | FAX +66 0 3304 8556
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



Analysis / Test Report

Client : Thai Polyethylene Co., Ltd.
271, Sukhumvit Road, Tambol Map Ta Phut, Amphur Muang, Rayong Thailand 21150
P/O : PMM-23-11
Project Name : Environmental Monitoring
Project Location :

Lot ID: 2444663

Date Received : May 27, 2024

Date Reported : Jun 01, 2024

Report Number : 2971413-1

Page 1 of 7

Sample Number : 2444663-1
Sampled Date : May 13, 2024
Sample Description : Air Quality
Location : โรงเรียนบ้านมาบตาพุด (โศภณราษฎร์บูรณะ) (GPS 47P 0735343, 1406686)
Date Analysis Commenced : May 28, 2024
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							
Non-Methane Hydrocarbon	13/05/24 - 14/05/24	ppm	-	1.0	<1.0	Total Hydrocarbon Analyzer (FID)	Rayong

Sampled By : Anuwet Tema

Remark :

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

Approved by

Thanita K.

Thanita Kulsuriwong
Scientist (4)

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. No part of this report 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.

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Pluakdaeng Rayong 21140 Thailand | PHONE +66 0 3304 8555 | FAX +66 0 3304 8556
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



Analysis / Test Report

Client : Thai Polyethylene Co., Ltd.
271, Sukhumvit Road, Tambol Map Ta Phut, Amphur Muang, Rayong Thailand 21150
P/O : PMM-23-11
Project Name : Environmental Monitoring
Project Location :

Lot ID: 2444663

Date Received : May 27, 2024
Date Reported : Jun 01, 2024
Report Number : 2971413-1

Page 2 of 7

Sample Number : 2444663-2
Sampled Date : May 14, 2024
Sample Description : Air Quality
Location : โรงเรียนบ้านมาบตาพุด (โศภณราษฎร์บูรณะ) (GPS 47P 0735343, 1406686)
Date Analysis Commenced : May 28, 2024
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							
Non-Methane Hydrocarbon	14/05/24 - 15/05/24	ppm	-	1.0	1.3	Total Hydrocarbon Analyzer (FID)	Rayong

Sampled By : Anuwet Tema

Remark :

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

Approved by

Thanita K.

Thanita Kulsuriwong
Scientist (4)

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. No part of this report 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.

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Pluakdaeng Rayong 21140 Thailand | PHONE +66 0 3304 8555 | FAX +66 0 3304 8556
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



Analysis / Test Report

Client : Thai Polyethylene Co., Ltd.
271, Sukhumvit Road, Tambol Map Ta Phut, Amphur Muang, Rayong Thailand 21150
P/O : PMM-23-11
Project Name : Environmental Monitoring
Project Location :

Lot ID: 2444663

Date Received : May 27, 2024
Date Reported : Jun 01, 2024
Report Number : 2971413-1

Page 3 of 7

Sample Number 2444663-3
Sampled Date May 15, 2024
Sample Description Air Quality
Location โรงเรียนบ้านมาบตาพุด (โศภนราษฎร์บุรณะ) (GPS 47P 0735343, 1406686)
Date Analysis Commenced May 28, 2024
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							
Non-Methane Hydrocarbon	15/05/24 - 16/05/24	ppm	-	1.0	1.4	Total Hydrocarbon Analyzer (FID)	Rayong

Sampled By : Anuwet Tema

Remark :

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

Approved by

Thanita K.

Thanita Kulsuriwong
Scientist (4)

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. No part of this report 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.

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Pluakdaeng Rayong 21140 Thailand | PHONE +66 0 3304 8555 | FAX +66 0 3304 8556
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



Analysis / Test Report

Client : Thai Polyethylene Co., Ltd.
271, Sukhumvit Road, Tambol Map Ta Phut, Amphur Muang, Rayong Thailand 21150
P/O : PMM-23-11
Project Name : Environmental Monitoring
Project Location :

Lot ID: 2444663

Date Received : May 27, 2024

Date Reported : Jun 01, 2024

Report Number : 2971413-1

Page 4 of 7

Sample Number : 2444663-4
Sampled Date : May 16, 2024
Sample Description : Air Quality
Location : โรงเรียนบ้านมาบตาพุด (โศภณราษฎร์บูรณะ) (GPS 47P 0735343, 1406686)
Date Analysis Commenced : May 28, 2024
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							
Non-Methane Hydrocarbon	16/05/24 - 17/05/24	ppm	-	1.0	6.7	Total Hydrocarbon Analyzer (FID)	Rayong

Sampled By : Anuwet Tema

Remark :

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

Approved by

Thanita K.

Thanita Kulsuriwong
Scientist (4)

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. No part of this report 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.

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Pluakdaeng Rayong 21140 Thailand | PHONE +66 0 3304 8555 | FAX +66 0 3304 8556
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



Analysis / Test Report

Client : Thai Polyethylene Co., Ltd.
271, Sukhumvit Road, Tambol Map Ta Phut, Amphur Muang, Rayong Thailand 21150
P/O : PMM-23-11
Project Name : Environmental Monitoring
Project Location :

Lot ID: 2444663

Date Received : May 27, 2024
Date Reported : Jun 01, 2024
Report Number : 2971413-1

Page 5 of 7

Sample Number 2444663-5
Sampled Date May 17, 2024
Sample Description Air Quality
Location โรงเรียนบ้านมาบตาพุด (โศภณราษฎร์บูรณะ) (GPS 47P 0735343, 1406686)
Date Analysis Commenced May 28, 2024
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							
Non-Methane Hydrocarbon	17/05/24 - 18/05/24	ppm	-	1.0	8.6	Total Hydrocarbon Analyzer (FID)	Rayong

Sampled By : Anuwet Tema

Remark :

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

Approved by

Thanita K.

Thanita Kulsuriwong
Scientist (4)

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. No part of this report 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.

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Pluakdaeng Rayong 21140 Thailand | PHONE +66 0 3304 8555 | FAX +66 0 3304 8556
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



Analysis / Test Report

Client : Thai Polyethylene Co., Ltd.
271, Sukhumvit Road, Tambol Map Ta Phut, Amphur Muang, Rayong Thailand 21150
P/O : PMM-23-11
Project Name : Environmental Monitoring
Project Location :

Lot ID: 2444663

Date Received : May 27, 2024
Date Reported : Jun 01, 2024
Report Number : 2971413-1

Page 6 of 7

Sample Number 2444663-6
Sampled Date May 18, 2024
Sample Description Air Quality
Location โรงเรียนบ้านมาบตาพุด (โศภณราษฎร์บูรณะ) (GPS 47P 0735343, 1406686)
Date Analysis Commenced May 28, 2024
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							
Non-Methane Hydrocarbon	18/05/24 - 19/05/24	ppm	-	1.0	2.9	Total Hydrocarbon Analyzer (FID)	Rayong

Sampled By : Anuwet Tema

Remark :

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

Approved by

Thanita K.

Thanita Kulsuriwong
Scientist (4)

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. No part of this report 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.

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Pluakdaeng Rayong 21140 Thailand | PHONE +66 0 3304 8555 | FAX +66 0 3304 8556
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



Analysis / Test Report

Client : Thai Polyethylene Co., Ltd.
271, Sukhumvit Road, Tambol Map Ta Phut, Amphur Muang, Rayong Thailand 21150
P/O : PMM-23-11
Project Name : Environmental Monitoring
Project Location :

Lot ID: 2444663

Date Received : May 27, 2024

Date Reported : Jun 01, 2024

Report Number : 2971413-1

Page 7 of 7

Sample Number : 2444663-7
Sampled Date : May 19, 2024
Sample Description : Air Quality
Location : โรงเรียนบ้านมาบตาพุด (โศภนราษฎร์บุรณะ) (GPS 47P 0735343, 1406686)
Date Analysis Commenced : May 28, 2024
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							
Non-Methane Hydrocarbon	19/05/24 - 20/05/24	ppm	-	1.0	1.2	Total Hydrocarbon Analyzer (FID)	Rayong

Sampled By : Anuwet Tema

Remark :

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

Approved by

Thanita K.

Thanita Kulsuriwong
Scientist (4)

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. No part of this report 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.

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Pluakdaeng Rayong 21140 Thailand | PHONE +66 0 3304 8555 | FAX +66 0 3304 8556
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



Analysis / Test Report

Client : Thai Polyethylene Co., Ltd.

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

Lot ID: 2444665

Date Received : May 31, 2024

Date Reported : Jun 03, 2024

Report Number: 2971417-1

P/O : PMM-23-11

Project Name : Environmental Monitoring

Project Location :

Page 1 of 2

Sample Number 2444665-1 to 7
Parameter Wind Speed / Wind Direction
Location พื้นที่โรงงาน (GPS 47P 0733546, 1406890)
Sampling Date May 13 - May 20, 2024
Sampling by Anuwet Tema

Time	May 13 - May 14, 2024			May 14 - May 15, 2024			May 15 - May 16, 2024			May 16 - May 17, 2024			May 17 - May 18, 2024			May 18 - May 19, 2024			May 19 - May 20, 2024		
	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)	
12:00 PM - 01:00 PM	4.1	210.0	SSW	2.7	248.0	WSW	3.4	241.0	WSW	0.0	-	-	2.8	201.0	SSW	1.6	233.0	SW	2.5	242.0	WSW
01:00 PM - 02:00 PM	1.2	287.0	WNW	2.5	262.0	W	1.7	247.0	WSW	1.6	45.0	NE	1.7	228.0	SW	0.7	276.0	W	1.6	211.0	SSW
02:00 PM - 03:00 PM	2.3	58.0	ENE	3.8	256.0	WSW	1.5	283.0	WNW	0.2	-	-	2.6	241.0	WSW	1.0	232.0	SW	1.4	214.0	SW
03:00 PM - 04:00 PM	2.8	50.0	NE	0.4	243.0	WSW	0.4	204.0	SSW	1.4	48.0	NE	0.4	292.0	WNW	2.3	268.0	W	0.4	243.0	WSW
04:00 PM - 05:00 PM	1.8	28.0	NNE	0.8	58.0	ENE	2.6	63.0	ENE	0.8	1.0	N	1.1	242.0	WSW	0.2	-	-	1.8	260.0	W
05:00 PM - 06:00 PM	1.5	60.0	ENE	0.0	-	-	2.0	65.0	ENE	0.9	31.0	NNE	0.4	63.0	ENE	1.6	86.0	E	1.5	259.0	W
06:00 PM - 07:00 PM	0.8	50.0	NE	0.0	-	-	2.4	79.0	E	1.3	70.0	ENE	1.4	54.0	NE	1.1	69.0	ENE	1.1	299.0	WNW
07:00 PM - 08:00 PM	1.5	246.0	WSW	0.0	-	-	2.2	73.0	ENE	1.0	21.0	NNE	0.8	31.0	NNE	3.2	92.0	E	2.4	219.0	SW
08:00 PM - 09:00 PM	1.4	248.0	WSW	0.0	-	-	2.5	83.0	E	1.3	52.0	NE	1.5	72.0	ENE	2.1	25.0	NNE	1.9	219.0	SW
09:00 PM - 10:00 PM	1.2	46.0	NE	0.2	-	-	1.6	76.0	ENE	1.9	59.0	ENE	2.1	65.0	ENE	3.4	80.0	E	1.7	281.0	W
10:00 PM - 11:00 PM	1.0	42.0	NE	0.8	262.0	W	1.6	63.0	ENE	2.2	78.0	ENE	2.6	72.0	ENE	2.4	86.0	E	2.0	256.0	WSW
11:00 PM - 12:00 AM	1.0	41.0	NE	0.8	261.0	W	1.6	63.0	ENE	1.2	346.0	NNW	2.3	78.0	ENE	0.5	59.0	ENE	0.7	288.0	WNW
12:00 AM - 01:00 AM	1.1	53.0	NE	1.2	235.0	SW	1.7	69.0	ENE	1.8	180.0	S	1.8	64.0	ENE	0.6	211.0	SSW	0.8	178.0	S
01:00 AM - 02:00 AM	1.4	42.0	NE	0.9	241.0	WSW	1.5	55.0	NE	0.9	261.0	W	1.7	68.0	ENE	1.3	228.0	SW	0.3	133.0	SE
02:00 AM - 03:00 AM	1.3	60.0	ENE	0.0	-	-	2.4	69.0	ENE	1.2	54.0	NE	1.7	61.0	ENE	1.0	218.0	SW	0.5	249.0	WSW
03:00 AM - 04:00 AM	0.9	78.0	ENE	1.1	285.0	WNW	0.9	42.0	NE	2.2	51.0	NE	1.2	68.0	ENE	0.5	38.0	NE	0.7	174.0	S
04:00 AM - 05:00 AM	1.0	36.0	NE	0.6	282.0	WNW	0.8	331.0	NNW	1.6	39.0	NE	0.6	53.0	NE	1.2	241.0	WSW	0.3	150.0	SSE
05:00 AM - 06:00 AM	1.4	42.0	NE	0.7	71.0	ENE	1.5	35.0	NE	1.2	52.0	NE	1.1	343.0	NNW	0.9	52.0	NE	0.2	-	-
06:00 AM - 07:00 AM	1.8	68.0	ENE	1.0	68.0	ENE	1.7	113.0	ESE	1.7	62.0	ENE	1.2	51.0	NE	1.7	264.0	W	0.8	58.0	ENE
07:00 AM - 08:00 AM	1.7	67.0	ENE	0.3	250.0	WSW	1.1	231.0	SW	2.3	62.0	ENE	3.9	253.0	WSW	1.8	243.0	WSW	0.9	11.0	N
08:00 AM - 09:00 AM	1.6	62.0	ENE	1.6	216.0	SW	1.0	202.0	SSW	2.4	67.0	ENE	0.8	198.0	SSW	1.3	246.0	WSW	0.9	165.0	SSE
09:00 AM - 10:00 AM	1.3	57.0	ENE	0.7	253.0	WSW	1.6	260.0	W	0.2	-	-	2.0	148.0	SSE	0.8	259.0	W	2.0	150.0	SSE
10:00 AM - 11:00 AM	0.6	88.0	E	1.8	216.0	SW	0.7	226.0	SW	1.5	201.0	SSW	2.2	248.0	WSW	2.2	177.0	S	1.1	145.0	SE
11:00 AM - 12:00 PM	1.2	161.0	SSE	3.0	225.0	SW	0.6	267.0	W	1.4	254.0	WSW	1.2	233.0	SW	2.3	257.0	WSW	1.6	268.0	W

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.

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

P/O : PMM-23-11

Project Name : Environmental Monitoring

Project Location :

Lot ID: 2444665

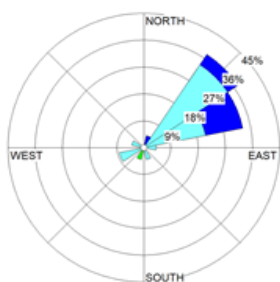
Date Received : May 31, 2024

Date Reported : Jun 03, 2024

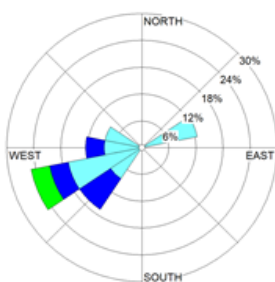
Report Number: 2971417-1

Page 2 of 2

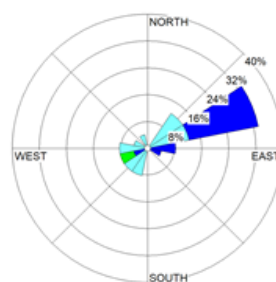
Wind Rose



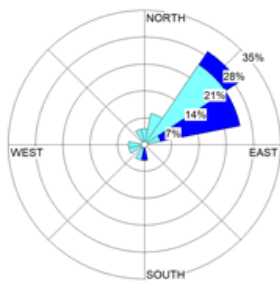
Date : May 13-14, 2024



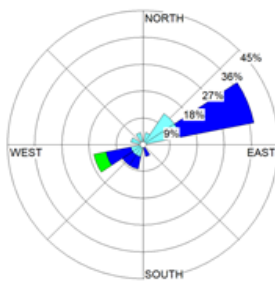
Date : May 14-15, 2024



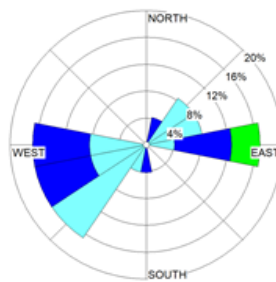
Date : May 15-16, 2024



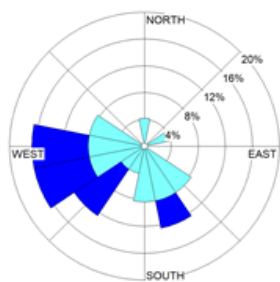
Date : May 16-17, 2024



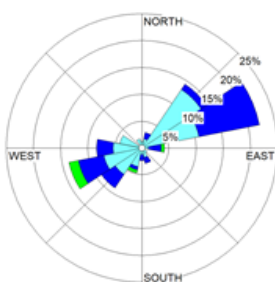
Date : May 17-18, 2024



Date : May 18-19, 2024



Date : May 19-20, 2024



Date : May 13-20, 2024

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	30.36
0.3-1.7	60.12
Calms	6.55

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 Jitranont
Assistant General Manager

คุณภาพน้ำทิ้ง



Analysis / Test Report

TESTING
No.0042

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

P/O :

Project Name : Environmental Monitoring

Project Location: HDPE#3

Lot ID: 241166

Date Received : Jan 04, 2024

Date Reported : Jan 11, 2024

Report Number : 2877433-1

Page 1 of 2

Sample Number	241166-1						
Sampled Date	Jan 04, 2024 9:38 AM						
Sample Description	Wastewater						
Location	HD3 : บ่อพักน้ำทิ้งหลังผ่านการบำบัดแล้ว						
Date Analysis Commenced	Jan 04, 2024						
Condition of Sample	Contained in one amber glass bottle, one BOD bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	<2.0	≤20	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	<25	≤120	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Rayong
Color (at Original pH)	ADMI	-	5	<5	≤300	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2120 F	Rayong
Color (at pH 7.0)	ADMI	-	5	<5	≤300	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2120 F	Rayong
Oil & Grease	mg/L	-	3	<3	≤5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
pH at 25 degree C		-	-	7.8	5.5-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	39.2	≤40	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	6	≤50	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

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

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

Remark :

Technical Management

N. Banchoangkit

Narumon Banchoangkit
Supervisor
ทะเบียนเลขที่ ว-323-จ-9445

Approved by

D. Changchon

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

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. No part of this report 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.

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Pluakdaeng Rayong 21140 Thailand | PHONE +66 0 3304 8555 | FAX +66 0 3304 8556
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



Analysis / Test Report

Client : Thai Polyethylene Co., Ltd.

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

P/O :

Project Name : Environmental Monitoring

Project Location: HDPE#3

TESTING

No.0042

Lot ID: 241166

Date Received : Jan 04, 2024

Date Reported : Jan 11, 2024

Report Number : 2877433-1

Page 2 of 2

- 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

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. No part of this report 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.

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Pluakdaeng Rayong 21140 Thailand | PHONE +66 0 3304 8555 | FAX +66 0 3304 8556
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



Analysis / Test Report

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

P/O :

Project Name : Environmental Monitoring

Project Location: HDPE#3

Lot ID: 241166

Date Received : Jan 04, 2024

Date Reported : Jan 11, 2024

Report Number : 2877433-2

Page 1 of 1

Sample Number	241166-1						
Sampled Date	Jan 04, 2024 9:38 AM						
Sample Description	Wastewater						
Location	HD3 : บ่อพักน้ำทิ้งหลังผ่านการบำบัดแล้ว						
Date Analysis Commenced	Jan 04, 2024						
Condition of Sample	Contained in one amber glass bottle, one BOD bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Dissolved Oxygen	mg/L	-	0.1	4.4	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-O (C)	Rayong
Flow rate	m3/s	-	-	0.003	No Standard	Flow meter	Rayong

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

Sampling By : Chainusorn Lertnanthakunchai

Remark :

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

Approved by

N. Banchongkit

Narumon Banchongkit
Supervisor

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. No part of this report 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.

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Pluakdaeng Rayong 21140 Thailand | PHONE +66 0 3304 8555 | FAX +66 0 3304 8556
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



Analysis / Test Report

TESTING
No.0042

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

P/O :

Project Name : Environmental Monitoring

Project Location: HDPE3

Lot ID: 247173

Date Received : Jan 24, 2024

Date Reported : Jan 27, 2024

Report Number : 2889885-1

Page 1 of 1

Sample Number 247173-1
Sampled Date Jan 24, 2024 9:27 AM
Sample Description Wastewater
Location HD3 : บ่อพักน้ำทิ้งหลังผ่านการบำบัดแล้ว
Date Analysis Commenced Jan 25, 2024
Condition of Sample Contained in one plastic bottle, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	324	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong

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

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

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. Banongkit

Narumon Banchongkit
Supervisor
ทะเบียนเลขที่ ว-323-จ-9445

Approved by

D. Changchon

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

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. No part of this report 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.

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Pluakdaeng Rayong 21140 Thailand | PHONE +66 0 3304 8555 | FAX +66 0 3304 8556
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



Analysis / Test Report

TESTING
No.0042

Client : Thai Polyethylene Co., Ltd.
271, Sukhumvit Road, Tambol Map Ta Phut, Amphur Muang, Rayong Thailand 21150
P/O : PMM-23-11
Project Name : Environmental Monitoring
Project Location : HDPE3

Lot ID: 243508

Date Received : Feb 08, 2024

Date Reported : Feb 15, 2024

Report Number : 2882553-1

Page 1 of 2

Sample Number	243508-1
Sampled Date	Feb 08, 2024 10:16 AM
Sample Description	Wastewater
Location	HD3 : บ่อพักน้ำทิ้งหลังผ่านการบำบัดแล้ว
Date Analysis Commenced	Feb 08, 2024
Condition of Sample	Contained in one BOD bottle, one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	<2.0	≤20	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	<25	≤120	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Rayong
Color (at Original pH)	ADMI	-	5	<5	≤300	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2120 F	Rayong
Color (at pH 7.0)	ADMI	-	5	<5	≤300	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2120 F	Rayong
Oil & Grease	mg/L	-	3	<3	≤5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
pH at 25 degree C		-	-	7.5	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	-	-	38.7	≤40	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	6	≤50	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

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

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

Remark :

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

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. No part of this report 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.

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Pluakdaeng Rayong 21140 Thailand | PHONE +66 0 3304 8555 | FAX +66 0 3304 8556
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



Analysis / Test Report

Client : Thai Polyethylene Co., Ltd.

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

P/O : PMM-23-11

Project Name : Environmental Monitoring

Project Location : HDPE3

TESTING

No.0042

Lot ID: 243508

Date Received : Feb 08, 2024

Date Reported : Feb 15, 2024

Report Number : 2882553-1

Page 2 of 2

- 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

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. No part of this report 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.

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Pluakdaeng Rayong 21140 Thailand | PHONE +66 0 3304 8555 | FAX +66 0 3304 8556
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



Analysis / Test Report

Client : Thai Polyethylene Co., Ltd.
271, Sukhumvit Road, Tambol Map Ta Phut, Amphur Muang, Rayong Thailand 21150
P/O : PMM-23-11
Project Name : Environmental Monitoring
Project Location : HDPE3

Lot ID: 243508

Date Received : Feb 08, 2024

Date Reported : Feb 15, 2024

Report Number : 2882553-2

Page 1 of 1

Sample Number	243508-1						
Sampled Date	Feb 08, 2024 10:16 AM						
Sample Description	Wastewater						
Location	HD3 : บ่อพักน้ำทิ้งหลังผ่านการบำบัดแล้ว						
Date Analysis Commenced	Feb 08, 2024						
Condition of Sample	Contained in one BOD bottle, one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Dissolved Oxygen	mg/L	-	0.1	5.1	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-O (C)	Rayong
Flow rate	m3/s	-	-	0.002	No Standard	Flow meter	Rayong

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

Sampling By : Chainusorn Lertnanthakunchai

Remark :

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

Approved by

N. Banchongkit

Narumon Banchongkit
Supervisor

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. No part of this report 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.

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Pluakdaeng Rayong 21140 Thailand | PHONE +66 0 3304 8555 | FAX +66 0 3304 8556
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



Analysis / Test Report

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

P/O :

Project Name : Environmental Monitoring

Project Location: HDPE3

TESTING

No.0042

Lot ID: 2418387

Date Received : Feb 22, 2024

Date Reported : Feb 28, 2024

Report Number : 2913084-1

Page 1 of 1

Sample Number	2418387-1
Sampled Date	Feb 22, 2024 10:00 AM
Sample Description	Wastewater
Location	HD3 : บ่อพักน้ำทิ้งหลังผ่านการบำบัดแล้ว
Date Analysis Commenced	Feb 23, 2024
Condition of Sample	Contained in one plastic bottle, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	940	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong

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

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

Photchana S.

Photchana Seeda

Scientist (4)

ทะเบียนเลขที่ ว-323-จ-9446

Approved by

D. Changchon.

Dej Changchon

Senior Manager

ทะเบียนเลขที่ ว-323-ค-9442

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. No part of this report 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.

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Pluakdaeng Rayong 21140 Thailand | PHONE +66 0 3304 8555 | FAX +66 0 3304 8556
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



Analysis / Test Report

TESTING

No.0042

Lot ID: 2417396

Date Received : Mar 07, 2024

Date Reported : Mar 14, 2024

Report Number : 2910788-1

Client : Thai Polyethylene Co., Ltd.

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

P/O : PMM-23-11

Project Name : Environmental Monitoring

Project Location : HDPE3

Page 1 of 2

Sample Number	2417396-1
Sampled Date	Mar 07, 2024 9:30 AM
Sample Description	Wastewater
Location	HD3 : บ่อพักน้ำทิ้งหลังผ่านการบำบัดแล้ว
Date Analysis Commenced	Mar 07, 2024
Condition of Sample	Contained in one amber glass bottle, one BOD bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	<2.0	≤20	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	<25	≤120	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Rayong
Color (at Original pH)	ADMI	-	5	<5	≤300	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2120 F	Rayong
Color (at pH 7.0)	ADMI	-	5	<5	≤300	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2120 F	Rayong
Oil & Grease	mg/L	-	3	<3	≤5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
pH at 25 degree C		-	-	7.7	5.5-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	37.9	≤40	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	436	≤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	≤50	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

Technical Management

N. Banongkit

Narumon Banchongkit

Supervisor

ทะเบียนเลขที่ จ-323-จ-9445

Approved by

D. Changchon

Dej Changchon

Senior Manager

ทะเบียนเลขที่ จ-323-ค-9442

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. No part of this report 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.

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Pluakdaeng Rayong 21140 Thailand | PHONE +66 0 3304 8555 | FAX +66 0 3304 8556
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



Analysis / Test Report

Client : Thai Polyethylene Co., Ltd.
271, Sukhumvit Road, Tambol Map Ta Phut, Amphur Muang, Rayong Thailand 21150
P/O : PMM-23-11
Project Name : Environmental Monitoring
Project Location : HDPE3

TESTING
No.0042
Lot ID: 2417396
Date Received : Mar 07, 2024
Date Reported : Mar 14, 2024
Report Number : 2910788-1

Page 2 of 2

Guideline : Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017).
Sampling By : Chainusorn Lertnanthakunchai ทะเบียนเลขที่ ว-323-จ-9461

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

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. No part of this report 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.

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Pluakdaeng Rayong 21140 Thailand | PHONE +66 0 3304 8555 | FAX +66 0 3304 8556
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



Analysis / Test Report

Client : Thai Polyethylene Co., Ltd.
271, Sukhumvit Road, Tambol Map Ta Phut, Amphur Muang, Rayong Thailand 21150
P/O : PMM-23-11
Project Name : Environmental Monitoring
Project Location : HDPE3

Lot ID: 2417396

Date Received : Mar 07, 2024

Date Reported : Mar 14, 2024

Report Number : 2910788-2

Page 1 of 1

Sample Number	2417396-1						
Sampled Date	Mar 07, 2024 9:30 AM						
Sample Description	Wastewater						
Location	HD3 : บ่อพักน้ำทิ้งหลังผ่านการบำบัดแล้ว						
Date Analysis Commenced	Mar 07, 2024						
Condition of Sample	Contained in one amber glass bottle, one BOD bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Dissolved Oxygen	mg/L	-	0.1	4.5	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-O (C)	Rayong
Flow rate	m3/s	-	-	0.002	No Standard	Flow meter	Rayong

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

Sampling By : Chainusorn Lertnanthakunchai

Remark :

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

Approved by

N. Banchongkit

Narumon Banchongkit
Supervisor

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. No part of this report 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.

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Pluakdaeng Rayong 21140 Thailand | PHONE +66 0 3304 8555 | FAX +66 0 3304 8556
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



Analysis / Test Report

TESTING

No.0042

Lot ID: 2430481

Date Received : Apr 04, 2024

Date Reported : Apr 11, 2024

Report Number : 2939595-1

Client : Thai Polyethylene Co., Ltd.

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

P/O : PMM-23-11

Project Name : Environmental Monitoring

Project Location : HDPE3

Page 1 of 2

Sample Number	2430481-1						
Sampled Date	Apr 04, 2024 10:10 AM						
Sample Description	Wastewater						
Location	HD3 : บ่อพักน้ำทิ้งหลังผ่านการบำบัดแล้ว						
Date Analysis Commenced	Apr 04, 2024						
Condition of Sample	Contained in one BOD bottle, one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	<2.0	≤20	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	<25	≤120	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Rayong
Color (at Original pH)	ADMI	-	5	<5	≤300	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2120 F	Rayong
Color (at pH 7.0)	ADMI	-	5	<5	≤300	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2120 F	Rayong
Oil & Grease	mg/L	-	3	<3	≤5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
pH at 25 degree C		-	-	7.6	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	-	-	38.4	≤40	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	2240	≤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	16	≤50	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

Technical Management

N. Banongkit

Narumon Banchongkit

Supervisor

ทะเบียนเลขที่ จ-323-จ-9445

Approved by

D. Changchon

Dej Changchon

Senior Manager

ทะเบียนเลขที่ จ-323-ค-9442

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. No part of this report 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.

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Pluakdaeng Rayong 21140 Thailand | PHONE +66 0 3304 8555 | FAX +66 0 3304 8556
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



Analysis / Test Report

Client : Thai Polyethylene Co., Ltd.

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

P/O : PMM-23-11

Project Name : Environmental Monitoring

Project Location: HDPE3

TESTING

No.0042

Lot ID: 2430481

Date Received : Apr 04, 2024

Date Reported : Apr 11, 2024

Report Number : 2939595-1

Page 2 of 2

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

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

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

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. No part of this report 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.

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Pluakdaeng Rayong 21140 Thailand | PHONE +66 0 3304 8555 | FAX +66 0 3304 8556
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



Analysis / Test Report

Client : Thai Polyethylene Co., Ltd.
271, Sukhumvit Road, Tambol Map Ta Phut, Amphur Muang, Rayong Thailand 21150
P/O : PMM-23-11
Project Name : Environmental Monitoring
Project Location : HDPE3

Lot ID: 2430481

Date Received : Apr 04, 2024

Date Reported : Apr 11, 2024

Report Number : 2939595-2

Page 1 of 1

Sample Number	2430481-1						
Sampled Date	Apr 04, 2024 10:10 AM						
Sample Description	Wastewater						
Location	HD3 : บ่อพักน้ำทิ้งหลังผ่านการบำบัดแล้ว						
Date Analysis Commenced	Apr 04, 2024						
Condition of Sample	Contained in one BOD bottle, one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Dissolved Oxygen	mg/L	-	0.1	5.7	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-O (C)	Rayong
Flow rate	m3/s	-	-	0.003	No Standard	Flow meter	Rayong

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

Sampling By : Chainusorn Lertnanthakunchai

Remark :

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

Approved by

Narumon Banchongkit
Supervisor

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. No part of this report 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.

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Pluakdaeng Rayong 21140 Thailand | PHONE +66 0 3304 8555 | FAX +66 0 3304 8556
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



Analysis / Test Report

TESTING

No.0042

Lot ID: 2444678

Date Received : May 21, 2024

Date Reported : Jun 05, 2024

Report Number : 2971430-1 Rev. No.1

Client : Thai Polyethylene Co., Ltd.

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

P/O : PMM-23-11

Project Name : Environmental Monitoring

Project Location : HDPE3

Page 1 of 2

Sample Number	2444678-1					
Sampled Date	May 21, 2024 10:20 AM					
Sample Description	Wastewater					
Location	HD3 : บ่อพักน้ำทิ้งหลังผ่านการบำบัดแล้ว					
Date Analysis Commenced	May 21, 2024					
Condition of Sample	Contained in one amber glass bottle, two BOD bottles 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	<2.0	≤20	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	<25	≤120	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Rayong
Color (at Original pH)	ADMI	-	5	<5	≤300	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2120 F	Rayong
Color (at pH 7.0)	ADMI	-	5	<5	≤300	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2120 F	Rayong
Oil & Grease	mg/L	-	3	<3	≤5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
pH at 25 degree C		-	-	8.1	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	-	-	36.4	≤40	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	9	≤50	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

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

Note : This Analysis test report is reissued to supersede report No.2971430-1, Date Reported : May 29, 2024 due to revise analytical information.

Technical Management

Chontichak

Chonticha Subongkoch

Scientist (3)

ทะเบียนเลขที่ ว-323-จ-9449

Approved by

D. Changchon

Dej Changchon

Senior Manager

ทะเบียนเลขที่ ว-323-ค-9442

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. No part of this report 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.

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Pluakdaeng Rayong 21140 Thailand | PHONE +66 0 3304 8555 | FAX +66 0 3304 8556
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



Analysis / Test Report

Client : Thai Polyethylene Co., Ltd.

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

P/O : PMM-23-11

Project Name : Environmental Monitoring

Project Location: HDPE3

TESTING

No.0042

Lot ID: 2444678

Date Received : May 21, 2024

Date Reported : Jun 05, 2024

Report Number : 2971430-1 Rev. No.1

Page 2 of 2

Sampling By : Sansoen Khuiyoksui ทะเบียนเลขที่ ว-323-จ-0005

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

Chontichak

Chonticha Subongkoch

Scientist (3)

ทะเบียนเลขที่ ว-323-จ-9449

Approved by

D. Chumson

Dej Changchon

Senior Manager

ทะเบียนเลขที่ ว-323-ค-9442

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. No part of this report 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.

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Pluakdaeng Rayong 21140 Thailand | PHONE +66 0 3304 8555 | FAX +66 0 3304 8556
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



Analysis / Test Report

Client : Thai Polyethylene Co., Ltd.
271, Sukhumvit Road, Tambol Map Ta Phut, Amphur Muang, Rayong Thailand 21150
P/O : PMM-23-11
Project Name : Environmental Monitoring
Project Location : HDPE3

Lot ID: 2444678

Date Received : May 21, 2024
Date Reported : Jun 05, 2024
Report Number : 2971430-2 Rev. No.1

Page 1 of 1

Sample Number	2444678-1
Sampled Date	May 21, 2024 10:20 AM
Sample Description	Wastewater
Location	HD3 : บ่อพักน้ำทิ้งหลังผ่านการบำบัดแล้ว
Date Analysis Commenced	May 21, 2024
Condition of Sample	Contained in one amber glass bottle, two BOD bottles 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							
Dissolved Oxygen	mg/L	-	0.1	4.4	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-O (C)	Rayong
Flow rate	m3/s	-	-	0.005	No Standard	Flow meter	Rayong

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

Note : This Analysis test report is reissued to supersede report No.2971430-2, Date Reported : May 29, 2024 due to revise analytical information.

Sampling By : Sansoen Khuiyoksui

Remark :

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

Approved by

Chontichak

Chonticha Subongkoch
Scientist (3)

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. No part of this report 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.

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Pluakdaeng Rayong 21140 Thailand | PHONE +66 0 3304 8555 | FAX +66 0 3304 8556
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



Analysis / Test Report

TESTING

No.0042

Lot ID: 2461911

Date Received : May 31, 2024

Date Reported : Jun 04, 2024

Report Number : 3008742-1

Client : Thai Polyethylene Co., Ltd.

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

P/O :

Project Name : Environmental Monitoring

Project Location: HDPE3

Page 1 of 1

Sample Number	2461911-1
Sampled Date	May 31, 2024 1:53 PM
Sample Description	Wastewater
Location	HD3 : บ่อพักน้ำทิ้งหลังผ่านการบำบัดแล้ว
Date Analysis Commenced	Jun 01, 2024
Condition of Sample	Contained in one plastic bottle, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	1870	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong

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

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

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

Photchana S.

Photchana Seeda

Scientist (4)

ทะเบียนเลขที่ ว-323-จ-9446

Approved by

D. Changchon.

Dej Changchon

Senior Manager

ทะเบียนเลขที่ ว-323-ค-9442

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. No part of this report 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.

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Pluakdaeng Rayong 21140 Thailand | PHONE +66 0 3304 8555 | FAX +66 0 3304 8556
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



Analysis / Test Report

TESTING

No.0042

Lot ID: 2460085

Date Received : Jun 06, 2024

Date Reported : Jul 02, 2024

Report Number : 3042440-1

Client : Thai Polyethylene Co., Ltd.

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

P/O : PMM-23-11

Project Name : Environmental Monitoring

Project Location : HDPE3

Page 1 of 2

Sample Number	2460085-1
Sampled Date	Jun 06, 2024 9:50 AM
Sample Description	Wastewater
Location	HD3 : บ่อพักน้ำทิ้งหลังผ่านการบำบัดแล้ว
Date Analysis Commenced	Jun 06, 2024
Condition of Sample	Contained in two BOD bottles, 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	<2.0	≤20	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	<25	≤120	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Rayong
Color (at Original pH)	ADMI	-	5	<5	≤300	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2120 F	Rayong
Color (at pH 7.0)	ADMI	-	5	<5	≤300	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2120 F	Rayong
pH at 25 degree C		-	-	8.2	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	-	-	38.8	≤40	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	8	≤50	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

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

Note : This Analysis test report is reissued to supersede report No.3004549-1, Date Reported : Jun 13, 2024 due to revise analytical information.

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

Remark :

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

Technical Management

Photchana S.

Photchana Seeda

Scientist (4)

ทะเบียนเลขที่ ว-323-จ-9446

Approved by

D. Changchon.

Dej Changchon

Senior Manager

ทะเบียนเลขที่ ว-323-ค-9442

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. No part of this report 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.

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Pluakdaeng Rayong 21140 Thailand | PHONE +66 0 3304 8555 | FAX +66 0 3304 8556
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



Analysis / Test Report

Client : Thai Polyethylene Co., Ltd.

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

P/O : PMM-23-11

Project Name : Environmental Monitoring

Project Location: HDPE3

TESTING

No.0042

Lot ID: 2460085

Date Received : Jun 06, 2024

Date Reported : Jul 02, 2024

Report Number : 3042440-1

Page 2 of 2

- 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

Photchana S.

Photchana Seeda

Scientist (4)

ทะเบียนเลขที่ ว-323-จ-9446

Approved by

D. Changchon.

Dej Changchon

Senior Manager

ทะเบียนเลขที่ ว-323-ค-9442

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. No part of this report 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.

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Pluakdaeng Rayong 21140 Thailand | PHONE +66 0 3304 8555 | FAX +66 0 3304 8556
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



Analysis / Test Report

Client : Thai Polyethylene Co., Ltd.
271, Sukhumvit Road, Tambol Map Ta Phut, Amphur Muang, Rayong Thailand 21150
P/O : PMM-23-11
Project Name : Environmental Monitoring
Project Location : HDPE3

Lot ID: 2460085

Date Received : Jun 06, 2024

Date Reported : Jul 02, 2024

Report Number : 3042440-2

Page 1 of 1

Sample Number	2460085-1						
Sampled Date	Jun 06, 2024 9:50 AM						
Sample Description	Wastewater						
Location	HD3 : บ่อพักน้ำทิ้งหลังผ่านการบำบัดแล้ว						
Date Analysis Commenced	Jun 06, 2024						
Condition of Sample	Contained in two BOD bottles, 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							
Dissolved Oxygen	mg/L	-	0.1	6.2	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-O (C)	Rayong
Flow rate	m3/s	-	-	0.004	No Standard	Flow meter	Rayong

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

Note : This Analysis test report is reissued to supersede report No.3004549-2, Date Reported : Jun 13, 2024 due to revise analytical information.

Sampling By : Chainusorn Lertnanthakunchai

Remark :

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

Approved by

Photchana S.

Photchana Seeda
Scientist (4)

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. No part of this report 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.

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Pluakdaeng Rayong 21140 Thailand | PHONE +66 0 3304 8555 | FAX +66 0 3304 8556
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



Analysis / Test Report

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

P/O :

Project Name : Environmental Monitoring

Project Location: HDPE3

TESTING

No.0042

Lot ID: 2468039

Date Received : Jun 18, 2024

Date Reported : Jul 02, 2024

Report Number : 3042448-2

Page 1 of 1

Sample Number	2468039-1
Sampled Date	Jun 18, 2024 10:30 AM
Sample Description	Wastewater
Location	HD3 : บ่อพักน้ำทิ้งหลังผ่านการบำบัดแล้ว
Date Analysis Commenced	Jun 19, 2024
Condition of Sample	Contained in one amber glass bottle 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							
Oil & Grease	mg/L	-	3	<3	≤5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong

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

Note : This Analysis test report is reissued to supersede report No.3025498-1, Date Reported : Jun 22, 2024 due to revise analytical information.

Sampling By : Surawit Narapong ทะเบียนเลขที่ ว-323-จ-0011

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

Photchana S.

Photchana Seeda

Scientist (4)

ทะเบียนเลขที่ ว-323-จ-9446

Approved by

D. Changchon.

Dej Changchon

Senior Manager

ทะเบียนเลขที่ ว-323-ค-9442

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. No part of this report 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.

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Pluakdaeng Rayong 21140 Thailand | PHONE +66 0 3304 8555 | FAX +66 0 3304 8556
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



Analysis / Test Report

TESTING

No.0042

Lot ID: 2472458

Date Received : Jun 25, 2024

Date Reported : Jun 28, 2024

Report Number : 3034274-1

Client : Thai Polyethylene Co., Ltd.

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

P/O :

Project Name : Environmental Monitoring

Project Location: HDPE3

Page 1 of 1

Sample Number	2472458-1
Sampled Date	Jun 25, 2024 10:15 AM
Sample Description	Wastewater
Location	HD3 : บ่อพักน้ำทิ้งหลังผ่านการบำบัดแล้ว
Date Analysis Commenced	Jun 26, 2024
Condition of Sample	Contained in one plastic bottle, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	1440	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong

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

Sampling By : Sansoen Khuiyoksui ทะเบียนเลขที่ ว-323-จ-0005

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

Chontichak

Chonticha Subongkoch

Scientist (3)

ทะเบียนเลขที่ ว-323-จ-9449

Approved by

D. Changchon

Dej Changchon

Senior Manager

ทะเบียนเลขที่ ว-323-ค-9442

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. No part of this report 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.

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Pluakdaeng Rayong 21140 Thailand | PHONE +66 0 3304 8555 | FAX +66 0 3304 8556
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



Analysis / Test Report

TESTING

No.0042

Lot ID: 246145

Date Received : Jan 24, 2024

Date Reported : Jan 30, 2024

Report Number : 2887758-1

Client : Thai Polyethylene Co., Ltd.

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

P/O :

Project Name : Environmental Monitoring

Project Location: HDPE3

Page 1 of 2

Sample Number	246145-1
Sampled Date	Jan 24, 2024 2:20 PM
Sample Description	Wastewater
Location	ปลายท่อน้ำทิ้งก่อนระบายออกสู่รางระบายน้ำของนิคมฯ
Date Analysis Commenced	Jan 24, 2024
Condition of Sample	Contained in one amber glass bottle, one BOD bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	2.5	≤20	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	34	≤120	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Rayong
Color (at Original pH)	ADMI	-	5	30	≤300	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2120 F	Rayong
Color (at pH 7.0)	ADMI	-	5	28	≤300	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2120 F	Rayong
Oil & Grease	mg/L	-	3	<3	≤5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
pH at 25 degree C		-	-	8.5	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	-	-	29.3	≤40	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	1930	≤39000 (1)	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	12	≤50	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

Technical Management

N. Banchongkit

Narumon Banchongkit
Supervisor

ทะเบียนเลขที่ ว-323-จ-9445

Approved by

D. Changchon

Dej Changchon
Senior Manager

ทะเบียนเลขที่ ว-323-ค-9442

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. No part of this report 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.

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Pluakdaeng Rayong 21140 Thailand | PHONE +66 0 3304 8555 | FAX +66 0 3304 8556
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



Analysis / Test Report

Client : Thai Polyethylene Co., Ltd.

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

P/O :

Project Name : Environmental Monitoring

Project Location: HDPE3

TESTING

No.0042

Lot ID: 246145

Date Received : Jan 24, 2024

Date Reported : Jan 30, 2024

Report Number : 2887758-1

Page 2 of 2

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

(1) Total Dissolved Solids when discharged to receiving water having TDS > 3,000 mg/L, TDS in the to-be-discharged wastewater can exceed the TDS already found in the receiving water by not higher than 5,000 mg/L.

Note : Total Dissolved Solids of receiving water is 34,000 mg/L (Refer to Lot ID 248748-1 : หาดทรายทอง)

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

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

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. No part of this report 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.

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Pluakdaeng Rayong 21140 Thailand | PHONE +66 0 3304 8555 | FAX +66 0 3304 8556
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



Analysis / Test Report

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

P/O :

Project Name : Environmental Monitoring

Project Location: HDPE3

Lot ID: 246145

Date Received : Jan 24, 2024

Date Reported : Jan 30, 2024

Report Number : 2887758-2

Page 1 of 1

Sample Number	246145-1						
Sampled Date	Jan 24, 2024 2:20 PM						
Sample Description	Wastewater						
Location	ปลายท่อน้ำทิ้งก่อนระบายออกสู่รางระบายน้ำของนิคมฯ						
Date Analysis Commenced	Jan 25, 2024						
Condition of Sample	Contained in one amber glass bottle, one BOD bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Dissolved Oxygen	mg/L	-	0.1	7.2	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-O (C)	Rayong

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

(1) Total Dissolved Solids when discharged to receiving water having TDS > 3,000 mg/L, TDS in the to-be-discharged wastewater can exceed the TDS already found in the receiving water by not higher than 5,000 mg/L.

Note : Total Dissolved Solids of receiving water is 34,000 mg/L (Refer to Lot ID 248748-1 : หาดทรายทอง)

Sampling By : Chainusorn Lertnanthakunchai

Remark :

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

Approved by

N. Banchongkit

Narumon Banchongkit
Supervisor

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. No part of this report 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.

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Pluakdaeng Rayong 21140 Thailand | PHONE +66 0 3304 8555 | FAX +66 0 3304 8556
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



Analysis / Test Report

TESTING

No.0042

Lot ID: 241168

Date Received : Feb 15, 2024

Date Reported : Feb 22, 2024

Report Number : 2877446-1

Client : Thai Polyethylene Co., Ltd.

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

P/O : PMM-23-11

Project Name : Environmental Monitoring

Project Location: HDPE3

Page 1 of 2

Sample Number	241168-1						
Sampled Date	Feb 15, 2024 2:05 PM						
Sample Description	Wastewater						
Location	ปลายท่อน้ำทิ้งก่อนระบายออกสู่รางระบายน้ำของนิคมฯ						
Date Analysis Commenced	Feb 15, 2024						
Condition of Sample	Contained in one BOD bottle, one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	<2.0	≤20	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	27	≤120	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Rayong
Color (at Original pH)	ADMI	-	5	22	≤300	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2120 F	Rayong
Color (at pH 7.0)	ADMI	-	5	19	≤300	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2120 F	Rayong
Oil & Grease	mg/L	-	3	<3	≤5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
pH at 25 degree C		-	-	8.6	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	-	-	31.3	≤40	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	1810	≤40200 (1)	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	8	≤50	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

Technical Management

N. Banongkit

Narumon Banchongkit

Supervisor

ทะเบียนเลขที่ จ-323-จ-9445

Approved by

D. Changchon

Dej Changchon

Senior Manager

ทะเบียนเลขที่ จ-323-ค-9442

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. No part of this report 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.

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Pluakdaeng Rayong 21140 Thailand | PHONE +66 0 3304 8555 | FAX +66 0 3304 8556
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



Analysis / Test Report

TESTING
No.0042

Client : Thai Polyethylene Co., Ltd.

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

P/O : PMM-23-11

Project Name : Environmental Monitoring

Project Location: HDPE3

Lot ID: 241168

Date Received : Feb 15, 2024

Date Reported : Feb 22, 2024

Report Number : 2877446-1

Page 2 of 2

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

(1) Total Dissolved Solids when discharged to receiving water having TDS > 3,000 mg/L, TDS in the to-be-discharged wastewater can exceed the TDS already found in the receiving water by not higher than 5,000 mg/L.

Note : Total Dissolved Solids of receiving water is 35,200 mg/L (Refer to Lot ID 246992-1 : หาดทรายทอง)

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

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

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. No part of this report 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.

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Pluakdaeng Rayong 21140 Thailand | PHONE +66 0 3304 8555 | FAX +66 0 3304 8556
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



Analysis / Test Report

Client : Thai Polyethylene Co., Ltd.
271, Sukhumvit Road, Tambol Map Ta Phut, Amphur Muang, Rayong Thailand 21150
P/O : PMM-23-11
Project Name : Environmental Monitoring
Project Location: HDPE3

Lot ID: 241168

Date Received : Feb 15, 2024
Date Reported : Feb 22, 2024
Report Number : 2877446-2

Page 1 of 1

Sample Number	241168-1						
Sampled Date	Feb 15, 2024 2:05 PM						
Sample Description	Wastewater						
Location	ปลายท่อน้ำทิ้งก่อนระบายออกสู่รางระบายน้ำของนิคมฯ						
Date Analysis Commenced	Feb 16, 2024						
Condition of Sample	Contained in one BOD bottle, one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Dissolved Oxygen	mg/L	-	0.1	7.4	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-O (C)	Rayong

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

(1) Total Dissolved Solids when discharged to receiving water having TDS > 3,000 mg/L, TDS in the to-be-discharged wastewater can exceed the TDS already found in the receiving water by not higher than 5,000 mg/L.

Note : Total Dissolved Solids of receiving water is 35,200 mg/L (Refer to Lot ID 246992-1 : หาดทรายทอง)

Sampling By : Chainusorn Lertnanthakunchai

Remark :

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

Approved by

N. Banchongkit

Narumon Banchongkit
Supervisor

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. No part of this report 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.

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Pluakdaeng Rayong 21140 Thailand | PHONE +66 0 3304 8555 | FAX +66 0 3304 8556
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



Analysis / Test Report

TESTING

No.0042

Lot ID: 2417398

Date Received : Mar 07, 2024

Date Reported : Mar 14, 2024

Report Number : 2910791-1

Client : Thai Polyethylene Co., Ltd.

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

P/O : PMM-23-11

Project Name : Environmental Monitoring

Project Location : HDPE3

Page 1 of 2

Sample Number	2417398-1
Sampled Date	Mar 07, 2024 2:10 PM
Sample Description	Wastewater
Location	ปลายท่อน้ำทิ้งก่อนระบายออกสู่รางระบายน้ำของนิคมฯ
Date Analysis Commenced	Mar 07, 2024
Condition of Sample	Contained in one amber glass bottle, one BOD bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	2.0	≤20	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	31	≤120	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Rayong
Color (at Original pH)	ADMI	-	5	25	≤300	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2120 F	Rayong
Color (at pH 7.0)	ADMI	-	5	23	≤300	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2120 F	Rayong
Oil & Grease	mg/L	-	3	<3	≤5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
pH at 25 degree C		-	-	7.8	5.5-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	33.8	≤40	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	1080	≤35200 (1)	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	≤50	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

Technical Management

N. Banchongkit

Narumon Banchongkit

Supervisor

ทะเบียนเลขที่ ว-323-จ-9445

Approved by

D. Changchon

Dej Changchon

Senior Manager

ทะเบียนเลขที่ ว-323-ค-9442

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. No part of this report 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.

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Pluakdaeng Rayong 21140 Thailand | PHONE +66 0 3304 8555 | FAX +66 0 3304 8556
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



Analysis / Test Report

Client : Thai Polyethylene Co., Ltd.

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

P/O : PMM-23-11

Project Name : Environmental Monitoring

Project Location: HDPE3

TESTING

No.0042

Lot ID: 2417398

Date Received : Mar 07, 2024

Date Reported : Mar 14, 2024

Report Number : 2910791-1

Page 2 of 2

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

(1) Total Dissolved Solids when discharged to receiving water having TDS > 3,000 mg/L, TDS in the to-be-discharged wastewater can exceed the TDS already found in the receiving water by not higher than 5,000 mg/L.

Note : Total Dissolved Solids of receiving water is 30,200 mg/L (Refer to Lot ID 2416891-1 : หาดทรายทอง)

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

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

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. No part of this report 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.

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Pluakdaeng Rayong 21140 Thailand | PHONE +66 0 3304 8555 | FAX +66 0 3304 8556
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



Analysis / Test Report

Client : Thai Polyethylene Co., Ltd.
271, Sukhumvit Road, Tambol Map Ta Phut, Amphur Muang, Rayong Thailand 21150
P/O : PMM-23-11
Project Name : Environmental Monitoring
Project Location : HDPE3

Lot ID: 2417398

Date Received : Mar 07, 2024

Date Reported : Mar 14, 2024

Report Number : 2910791-2

Page 1 of 1

Sample Number	2417398-1						
Sampled Date	Mar 07, 2024 2:10 PM						
Sample Description	Wastewater						
Location	ปลายท่อน้ำทิ้งก่อนระบายออกสู่รางระบายน้ำของนิคมฯ						
Date Analysis Commenced	Mar 08, 2024						
Condition of Sample	Contained in one amber glass bottle, one BOD bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Dissolved Oxygen	mg/L	-	0.1	6.0	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-O (C)	Rayong

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

(1) Total Dissolved Solids when discharged to receiving water having TDS > 3,000 mg/L, TDS in the to-be-discharged wastewater can exceed the TDS already found in the receiving water by not higher than 5,000 mg/L.

Note : Total Dissolved Solids of receiving water is 30,200 mg/L (Refer to Lot ID 2416891-1 : หาดทรายทอง)

Sampling By : Chainusorn Lertnanthakunchai

Remark :

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

Approved by

N. Banchongkit

Narumon Banchongkit
Supervisor

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. No part of this report 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.

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Pluakdaeng Rayong 21140 Thailand | PHONE +66 0 3304 8555 | FAX +66 0 3304 8556
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



Analysis / Test Report

TESTING

No.0042

Lot ID: 2430484

Date Received : Apr 11, 2024

Date Reported : Apr 22, 2024

Report Number : 2939600-1

Client : Thai Polyethylene Co., Ltd.

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

P/O : PMM-23-11

Project Name : Environmental Monitoring

Project Location: HDPE3

Page 1 of 2

Sample Number	2430484-1						
Sampled Date	Apr 11, 2024 3:00 PM						
Sample Description	Wastewater						
Location	ปลายท่อน้ำทิ้งก่อนระบายออกสู่รางระบายน้ำของนิคมฯ						
Date Analysis Commenced	Apr 11, 2024						
Condition of Sample	Contained in one amber glass bottle, one BOD bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	<2.0	≤20	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	38	≤120	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Rayong
Color (at Original pH)	ADMI	-	5	31	≤300	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2120 F	Rayong
Color (at pH 7.0)	ADMI	-	5	30	≤300	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2120 F	Rayong
Oil & Grease	mg/L	-	3	<3	≤5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
pH at 25 degree C		-	-	8.6	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	-	-	35.2	≤40	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	4200	(1)	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	≤50	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

Technical Management

N. Banchongkit

Narumon Banchongkit

Supervisor

ทะเบียนเลขที่ ว-323-จ-9445

Approved by

D. Changchon

Dej Changchon

Senior Manager

ทะเบียนเลขที่ ว-323-ค-9442

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. No part of this report 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.

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Pluakdaeng Rayong 21140 Thailand | PHONE +66 0 3304 8555 | FAX +66 0 3304 8556
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



Analysis / Test Report

Client : Thai Polyethylene Co., Ltd.

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

P/O : PMM-23-11

Project Name : Environmental Monitoring

Project Location: HDPE3

TESTING

No.0042

Lot ID: 2430484

Date Received : Apr 11, 2024

Date Reported : Apr 22, 2024

Report Number : 2939600-1

Page 2 of 2

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

(1) Total Dissolved Solids when discharged to receiving water having TDS > 3,000 mg/L, TDS in the to-be-discharged wastewater can exceed the TDS already found in the receiving water by not higher than 5,000 mg/L.

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

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. No part of this report 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.

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Pluakdaeng Rayong 21140 Thailand | PHONE +66 0 3304 8555 | FAX +66 0 3304 8556
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



Analysis / Test Report

Client : Thai Polyethylene Co., Ltd.
271, Sukhumvit Road, Tambol Map Ta Phut, Amphur Muang, Rayong Thailand 21150
P/O : PMM-23-11
Project Name : Environmental Monitoring
Project Location : HDPE3

Lot ID: 2430484

Date Received : Apr 11, 2024

Date Reported : Apr 22, 2024

Report Number : 2939600-2

Page 1 of 1

Sample Number	2430484-1						
Sampled Date	Apr 11, 2024 3:00 PM						
Sample Description	Wastewater						
Location	ปลายท่อน้ำทิ้งก่อนระบายออกสู่รางระบายน้ำของนิคมฯ						
Date Analysis Commenced	Apr 13, 2024						
Condition of Sample	Contained in one amber glass bottle, one BOD bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Dissolved Oxygen	mg/L	-	0.1	6.9	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-O (C)	Rayong

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

(1) Total Dissolved Solids when discharged to receiving water having TDS > 3,000 mg/L, TDS in the to-be-discharged wastewater can exceed the TDS already found in the receiving water by not higher than 5,000 mg/L.

Sampling By : Wanlop Hunchainaow

Remark :

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

Approved by

N. Banchongkit

Narumon Banchongkit
Supervisor

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. No part of this report 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.

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Pluakdaeng Rayong 21140 Thailand | PHONE +66 0 3304 8555 | FAX +66 0 3304 8556
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



Analysis / Test Report

TESTING

No.0042

Lot ID: 2444682

Date Received : May 16, 2024

Date Reported : May 24, 2024

Report Number : 2971433-1

Client : Thai Polyethylene Co., Ltd.

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

P/O : PMM-23-11

Project Name : Environmental Monitoring

Project Location: HDPE3

Page 1 of 2

Sample Number	2444682-1
Sampled Date	May 16, 2024 10:40 AM
Sample Description	Wastewater
Location	ปลายท่อน้ำทิ้งก่อนระบายออกสู่รางระบายน้ำของนิคมฯ
Date Analysis Commenced	May 16, 2024
Condition of Sample	Contained in one amber glass bottle, two BOD bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	<2.0	≤20	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	33	≤120	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Rayong
Color (at Original pH)	ADMI	-	5	44	≤300	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2120 F	Rayong
Color (at pH 7.0)	ADMI	-	5	43	≤300	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2120 F	Rayong
Dissolved Oxygen *	mg/L	-	0.1	6.0	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-O (C)	Rayong
Oil & Grease	mg/L	-	3	<3	≤5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
pH at 25 degree C		-	-	8.4	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	-	-	33.5	≤40	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	2560	≤37350 (1)	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong

Technical Management

Photchana S.

Photchana Seeda

Scientist (4)

ทะเบียนเลขที่ ว-323-จ-9446

Approved by

D. Changchon.

Dej Changchon

Senior Manager

ทะเบียนเลขที่ ว-323-ค-9442

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. No part of this report 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.

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Pluakdaeng Rayong 21140 Thailand | PHONE +66 0 3304 8555 | FAX +66 0 3304 8556
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



Analysis / Test Report

TESTING

No.0042

Lot ID: 2444682

Date Received : May 16, 2024

Date Reported : May 24, 2024

Report Number : 2971433-1

Client : Thai Polyethylene Co., Ltd.

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

P/O : PMM-23-11

Project Name : Environmental Monitoring

Project Location: HDPE3

Page 2 of 2

Sample Number	2444682-1
Sampled Date	May 16, 2024 10:40 AM
Sample Description	Wastewater
Location	ปลายท่อน้ำทิ้งก่อนระบายออกสู่รางระบายน้ำของนิคมฯ
Date Analysis Commenced	May 16, 2024
Condition of Sample	Contained in one amber glass bottle, two BOD bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	13	≤50	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

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

(1) Total Dissolved Solids when discharged to receiving water having TDS > 3,000 mg/L, TDS in the to-be-discharged wastewater can exceed the TDS already found in the receiving water by not higher than 5,000 mg/L.

Note : Total Dissolved Solids of receiving water is 32,350 mg/L (Refer to Lot ID 2443511-1 : หาดทรายทอง)

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

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

Photchana S.

Photchana Seeda

Scientist (4)

ทะเบียนเลขที่ ว-323-จ-9446

Approved by

D. Changchon.

Dej Changchon

Senior Manager

ทะเบียนเลขที่ ว-323-ค-9442

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. No part of this report 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.

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Pluakdaeng Rayong 21140 Thailand | PHONE +66 0 3304 8555 | FAX +66 0 3304 8556
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



Analysis / Test Report

Client : Thai Polyethylene Co., Ltd.
271, Sukhumvit Road, Tambol Map Ta Phut, Amphur Muang, Rayong Thailand 21150
P/O : PMM-23-11
Project Name : Environmental Monitoring
Project Location : HDPE3

Lot ID: 2444682

Date Received : May 16, 2024

Date Reported : May 24, 2024

Report Number : 2971433-2

Page 1 of 1

Sample Number	2444682-1						
Sampled Date	May 16, 2024 10:40 AM						
Sample Description	Wastewater						
Location	ปลายท่อน้ำทิ้งก่อนระบายออกสู่รางระบายน้ำของนิคมฯ						
Date Analysis Commenced	May 18, 2024						
Condition of Sample	Contained in one amber glass bottle, two BOD bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Dissolved Oxygen	mg/L	-	0.1	6.0	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-O (C)	Rayong

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

(1) Total Dissolved Solids when discharged to receiving water having TDS > 3,000 mg/L, TDS in the to-be-discharged wastewater can exceed the TDS already found in the receiving water by not higher than 5,000 mg/L.

Note : Total Dissolved Solids of receiving water is 32,350 mg/L (Refer to Lot ID 2443511-1 : หาดทรายทอง)

Sampling By : Chainusorn Lertnanthakunchai

Remark :

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

Approved by

Wilawan Borirak
Manager

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. No part of this report 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.

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Pluakdaeng Rayong 21140 Thailand | PHONE +66 0 3304 8555 | FAX +66 0 3304 8556
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



Analysis / Test Report

TESTING

No.0042

Lot ID: 2460086

Date Received : Jun 06, 2024

Date Reported : Jun 13, 2024

Report Number : 3004550-1

Client : Thai Polyethylene Co., Ltd.

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

P/O : PMM-23-11

Project Name : Environmental Monitoring

Project Location : HDPE3

Page 1 of 2

Sample Number	2460086-1
Sampled Date	Jun 06, 2024 2:30 PM
Sample Description	Wastewater
Location	ปลายท่อน้ำทิ้งก่อนระบายออกสู่รางระบายน้ำของนิคมฯ
Date Analysis Commenced	Jun 06, 2024
Condition of Sample	Contained in two BOD bottles, 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	4.4	≤20	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	57	≤120	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Rayong
Color (at Original pH)	ADMI	-	5	34	≤300	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2120 F	Rayong
Color (at pH 7.0)	ADMI	-	5	30	≤300	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2120 F	Rayong
Oil & Grease	mg/L	-	3	<3	≤5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
pH at 25 degree C		-	-	8.6	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	-	-	35.0	≤40	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	4000	≤37650(1)	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	≤50	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

Technical Management

Chontichak

Chonticha Subongkoch
Scientist (3)

ทะเบียนเลขที่ ว-323-จ-9449

Approved by

D. Changchon

Dej Changchon
Senior Manager

ทะเบียนเลขที่ ว-323-ค-9442

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. No part of this report 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.

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Pluakdaeng Rayong 21140 Thailand | PHONE +66 0 3304 8555 | FAX +66 0 3304 8556
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



Analysis / Test Report

Client : Thai Polyethylene Co., Ltd.
271, Sukhumvit Road, Tambol Map Ta Phut, Amphur Muang, Rayong Thailand 21150
P/O : PMM-23-11
Project Name : Environmental Monitoring
Project Location: HDPE3

TESTING
No.0042
Lot ID: 2460086
Date Received : Jun 06, 2024
Date Reported : Jun 13, 2024
Report Number : 3004550-1

Page 2 of 2

Guideline : Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017).
(1) Total Dissolved Solids when discharged to receiving water having TDS > 3,000 mg/L, TDS in the to-be-discharged wastewater can exceed the TDS already found in the receiving water by not higher than 5,000 mg/L.

Note : Total Dissolved Solids of receiving water is 32,650 mg/L (Refer to Lot ID 2460062-1 : หาดทรายทอง)

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

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

Chontichak

Chonticha Subongkoch
Scientist (3)
ทะเบียนเลขที่ ว-323-จ-9449

Approved by

D. Changchon

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

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. No part of this report 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.

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Pluakdaeng Rayong 21140 Thailand | PHONE +66 0 3304 8555 | FAX +66 0 3304 8556
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



Analysis / Test Report

Client : Thai Polyethylene Co., Ltd.
271, Sukhumvit Road, Tambol Map Ta Phut, Amphur Muang, Rayong Thailand 21150
P/O : PMM-23-11
Project Name : Environmental Monitoring
Project Location : HDPE3

Lot ID: 2460086

Date Received : Jun 06, 2024

Date Reported : Jun 13, 2024

Report Number : 3004550-2

Page 1 of 1

Sample Number	2460086-1						
Sampled Date	Jun 06, 2024 2:30 PM						
Sample Description	Wastewater						
Location	ปลายท่อน้ำทิ้งก่อนระบายออกสู่รางระบายน้ำของนิคมฯ						
Date Analysis Commenced	Jun 07, 2024						
Condition of Sample	Contained in two BOD bottles, 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							
Dissolved Oxygen	mg/L	-	0.1	5.3	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-O (C)	Rayong

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

(1) Total Dissolved Solids when discharged to receiving water having TDS > 3,000 mg/L, TDS in the to-be-discharged wastewater can exceed the TDS already found in the receiving water by not higher than 5,000 mg/L.

Note : Total Dissolved Solids of receiving water is 32,650 mg/L (Refer to Lot ID 2460062-1 : หาดทรายทอง)

Sampling By : Chainusorn Lertnanthakunchai

Remark :

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

Approved by

Chontichak

Chonticha Subongkoch
Scientist (3)

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. No part of this report 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.

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

ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER

คุณภาพน้ำผิวดิน



Analysis / Test Report

TESTING

No.0042

Lot ID: 2444684

Date Received : May 16, 2024

Date Reported : May 24, 2024

Report Number : 2971435-1

Client : Thai Polyethylene Co., Ltd.

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

P/O : PMM-23-11

Project Name : Environmental Monitoring

Project Location : HDPE3

Page 1 of 2

Sample Number	2444684-1						
Sampled Date	May 16, 2024 10:30 AM						
Sample Description	Wastewater						
Location	จุดปล่อยน้ำทิ้งของ HD3 ร่วมกับโรงงานใน Site 3						
Date Analysis Commenced	May 16, 2024						
Condition of Sample	Contained in one amber glass bottle, two BOD bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	2.5	≤20	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	35	≤120	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Rayong
Color (at Original pH)	ADMI	-	5	26	≤300	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2120 F	Rayong
Color (at pH 7.0)	ADMI	-	5	26	≤300	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2120 F	Rayong
Oil & Grease	mg/L	-	3	<3	≤5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
pH at 25 degree C		-	-	8.6	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	-	-	32.1	≤40	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	5160	≤37350 (1)	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	8	≤50	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

Technical Management

Photchana S.

Photchana Seeda

Scientist (4)

ทะเบียนเลขที่ ว-323-จ-9446

Approved by

D. Changchon.

Dej Changchon

Senior Manager

ทะเบียนเลขที่ ว-323-ค-9442

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. No part of this report 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.

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Pluakdaeng Rayong 21140 Thailand | PHONE +66 0 3304 8555 | FAX +66 0 3304 8556
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



Analysis / Test Report

Client : Thai Polyethylene Co., Ltd.

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

P/O : PMM-23-11

Project Name : Environmental Monitoring

Project Location: HDPE3

TESTING

No.0042

Lot ID: 2444684

Date Received : May 16, 2024

Date Reported : May 24, 2024

Report Number : 2971435-1

Page 2 of 2

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

(1) Total Dissolved Solids when discharged to receiving water having TDS > 3,000 mg/L, TDS in the to-be-discharged wastewater can exceed the TDS already found in the receiving water by not higher than 5,000 mg/L.

Note : Total Dissolved Solids of receiving water is 32,350 mg/L (Refer to Lot ID 2443511-1 : หาดทรายทอง)

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

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

Photchana S.

Photchana Seeda

Scientist (4)

ทะเบียนเลขที่ ว-323-จ-9446

Approved by

D. Changchon

Dej Changchon

Senior Manager

ทะเบียนเลขที่ ว-323-ค-9442

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. No part of this report 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.

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Pluakdaeng Rayong 21140 Thailand | PHONE +66 0 3304 8555 | FAX +66 0 3304 8556
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



Analysis / Test Report

Client : Thai Polyethylene Co., Ltd.
271, Sukhumvit Road, Tambol Map Ta Phut, Amphur Muang, Rayong Thailand 21150
P/O : PMM-23-11
Project Name : Environmental Monitoring
Project Location : HDPE3

Lot ID: 2444684

Date Received : May 16, 2024

Date Reported : May 24, 2024

Report Number : 2971435-2

Page 1 of 1

Sample Number	2444684-1						
Sampled Date	May 16, 2024 10:30 AM						
Sample Description	Wastewater						
Location	จุดปล่อยน้ำทิ้งของ HD3 ร่วมกับโรงงานใน Site 3						
Date Analysis Commenced	May 16, 2024						
Condition of Sample	Contained in one amber glass bottle, two BOD bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Dissolved Oxygen	mg/L	-	0.1	6.1	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-O (C)	Rayong
Flow rate	m3/s	-	-	0.033	No Standard	Flow meter	Rayong

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

(1) Total Dissolved Solids when discharged to receiving water having TDS > 3,000 mg/L, TDS in the to-be-discharged wastewater can exceed the TDS already found in the receiving water by not higher than 5,000 mg/L.

Note : Total Dissolved Solids of receiving water is 32,350 mg/L (Refer to Lot ID 2443511-1 : หาดทรายทอง)

Sampling By : Chainusorn Lertnanthakunchai

Remark :

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

Approved by

Photchana S.

Photchana Seeda
Scientist (4)

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. No part of this report 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.

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Pluakdaeng Rayong 21140 Thailand | PHONE +66 0 3304 8555 | FAX +66 0 3304 8556
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER

คุณภาพน้ำใต้ดิน



Analysis / Test Report

Client : Thai Polyethylene Co., Ltd.
271, Sukhumvit Road, Tambol Map Ta Phut, Amphur Muang, Rayong Thailand 21150
P/O : PMM-23-11
Project Name : Environmental Monitoring
Project Location : TPE Site 3

Lot ID: 2429715

Date Received : May 29, 2024
Date Reported : Jun 06, 2024
Report Number : 3010618-1

Page 1 of 1

Sample Number	2429715-1
Sampled Date	May 29, 2024 2:00 PM
Sample Description	Groundwater
Location	บ่อสังเกตการณ์ 1 MW1 : HDPE2
Date Analysis Commenced	May 29, 2024
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		-	-	5.3	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): ในกรณีที่มีการปนเปื้อนของกรดหรือด่างให้เปรียบเทียบผลวิเคราะห์ค่าพีเอชจากจุดเก็บตัวอย่างบ่อน้ำที่ใช้ในการติดตามตรวจสอบการปนเปื้อนกับผลวิเคราะห์จากจุดเก็บตัวอย่างบ่อเหนือน้ำที่ใช้เป็นบ่ออ้างอิงบนทิศทางการไหลของน้ำใต้ดินในพื้นที่ โดยค่าพีเอชที่เปลี่ยนแปลงจะต้องไม่เกินหนึ่งระดับ และไม่อยู่นอกช่วงค่าเกณฑ์อนุโลมสูงสุดของมาตรฐานคุณภาพน้ำบาดาลที่บริโภคคือ 6.5-9.2

Sampling By : Wanlop Hunchainaow ทะเบียนเลขที่ ว-323-จ-9457 , Samart Khumphlee ทะเบียนเลขที่ ว-204-จ-0084

Remark :

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

Technical Management

Photchana S.

Photchana Seeda

Scientist (4)

ทะเบียนเลขที่ ว-323-จ-9446

Approved by

D. Changchon.

Dej Changchon

Senior Manager

ทะเบียนเลขที่ ว-323-ค-9442

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. No part of this report 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.

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Pluakdaeng Rayong 21140 Thailand | PHONE +66 0 3304 8555 | FAX +66 0 3304 8556
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



Analysis / Test Report

Client : Thai Polyethylene Co., Ltd.
271, Sukhumvit Road, Tambol Map Ta Phut, Amphur Muang, Rayong Thailand 21150
P/O : PMM-23-11
Project Name : Environmental Monitoring
Project Location : TPE Site 3

Lot ID: 2429715

Date Received : May 29, 2024

Date Reported : Jun 06, 2024

Report Number : 3010618-2

Page 1 of 1

Sample Number	2429715-1						
Sampled Date	May 29, 2024 2:00 PM						
Sample Description	Groundwater						
Location	บ่อสังเกตการณ์ 1 MW1 : HDPE2						
Date Analysis Commenced	May 30, 2024						
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 C	Bangkok
TPH C>8-C16	mg/L	-	0.05	<0.05	1.7	United States Environmental Protection Agency, EPA Method 3510 C and 8015 C	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

Note : TPH C5-C8: Sum of n-Pentane, n-Hexane, n-Heptane and n-Octane
TPH C>8-C16: Sum of n-Nonane, n-Decane, n-Undecane, n-Dodecane, n-Tridecane, n-Tetradecane, n-Pentadecane and n-Hexadecane
TPH C>16-C35: Sum of n-Heptadecane, Pristane, n-Octadecane, Phytane, n-Nonadecane, n-Eicosane, 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-Tetratriacontane and n-Pentatriacontane
Integration mode: Peak to Peak

Sampling By : Wanlop Hunchainaow ทะเบียนเลขที่ ว-323-จ-9457 , Samart Khumplee ทะเบียนเลขที่ ว-204-จ-0084

Remark :

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

Technical Management

Nant Somb

Nanthawadee Somboon

Specialist 2

ทะเบียนเลขที่ ว-204-จ-0010

Approved by

Kanok Korn Anek

Kanokkorn Anek

Senior Manager

ทะเบียนเลขที่ ว-204-ค-0004

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. No part of this report 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.

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

ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



Analysis / Test Report

Client : Thai Polyethylene Co., Ltd.
271, Sukhumvit Road, Tambol Map Ta Phut, Amphur Muang, Rayong Thailand 21150
P/O : PMM-23-11
Project Name : Environmental Monitoring
Project Location : TPE Site 3

Lot ID: 2429715

Date Received : May 29, 2024

Date Reported : Jun 06, 2024

Report Number : 3010619-1

Page 1 of 1

Sample Number	2429715-2
Sampled Date	May 29, 2024 11:40 AM
Sample Description	Groundwater
Location	บ่อสังเกตการณ์ 2 MW2 : HDPE3
Date Analysis Commenced	May 29, 2024
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		-	-	4.6	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): ในกรณีที่มีการปนเปื้อนของกรดหรือด่างให้เปรียบเทียบผลวิเคราะห์ค่าพีเอชจากจุดเก็บตัวอย่างบ่อน้ำที่ใช้ในการติดตามตรวจสอบการปนเปื้อนกับผลวิเคราะห์จากจุดเก็บตัวอย่างบ่อเหนือน้ำที่ใช้เป็นบ่ออ้างอิงบนทิศทางการไหลของน้ำใต้ดินในพื้นที่ โดยค่าพีเอชที่เปลี่ยนแปลงจะต้องไม่เกินหนึ่งระดับ และไม่อยู่นอกช่วงค่าเกณฑ์อนุโลมสูงสุดของมาตรฐานคุณภาพน้ำบาดาลที่บริโภคคือ 6.5-9.2

Sampling By : Wanlop Hunchainaow ทะเบียนเลขที่ ว-323-จ-9457 , Samart Khumphlee ทะเบียนเลขที่ ว-204-จ-0084

Remark :

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

Technical Management

Photchana S.

Photchana Seeda

Scientist (4)

ทะเบียนเลขที่ ว-323-จ-9446

Approved by

D. Changchon.

Dej Changchon

Senior Manager

ทะเบียนเลขที่ ว-323-ค-9442

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. No part of this report 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.

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Pluakdaeng Rayong 21140 Thailand | PHONE +66 0 3304 8555 | FAX +66 0 3304 8556
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



Analysis / Test Report

Client : Thai Polyethylene Co., Ltd.
271, Sukhumvit Road, Tambol Map Ta Phut, Amphur Muang, Rayong Thailand 21150
P/O : PMM-23-11
Project Name : Environmental Monitoring
Project Location : TPE Site 3

Lot ID: 2429715

Date Received : May 29, 2024

Date Reported : Jun 06, 2024

Report Number : 3010619-2

Page 1 of 1

Sample Number	2429715-2						
Sampled Date	May 29, 2024 11:40 AM						
Sample Description	Groundwater						
Location	บ่อสังเกตการณ์ 2 MW2 : HDPE3						
Date Analysis Commenced	May 30, 2024						
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 C	Bangkok
TPH C>8-C16	mg/L	-	0.05	<0.05	1.7	United States Environmental Protection Agency, EPA Method 3510 C and 8015 C	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

Note : TPH C5-C8: Sum of n-Pentane, n-Hexane, n-Heptane and n-Octane
TPH C>8-C16: Sum of n-Nonane, n-Decane, n-Undecane, n-Dodecane, n-Tridecane, n-Tetradecane, n-Pentadecane and n-Hexadecane
TPH C>16-C35: Sum of n-Heptadecane, Pristane, n-Octadecane, Phytane, n-Nonadecane, n-Eicosane, 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-Tetratriacontane and n-Pentatriacontane
Integration mode: Peak to Peak

Sampling By : Wanlop Hunchainaow ทะเบียนเลขที่ ว-323-จ-9457 , Samart Khumplee ทะเบียนเลขที่ ว-204-จ-0084

Remark :

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

Technical Management

Nant Somb

Nanthawadee Somboon
Specialist 2
ทะเบียนเลขที่ ว-204-จ-0010

Approved by

Kanok Korn Anek

Kanokkorn Anek
Senior Manager
ทะเบียนเลขที่ ว-204-ค-0004

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. No part of this report 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.

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand | PHONE +66 0 2760 3000 | FAX +66 0 2760 3197
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



Analysis / Test Report

Client : Thai Polyethylene Co., Ltd.
271, Sukhumvit Road, Tambol Map Ta Phut, Amphur Muang, Rayong Thailand 21150
P/O : PMM-23-11
Project Name : Environmental Monitoring
Project Location : TPE Site 3

Lot ID: 2429715

Date Received : May 29, 2024

Date Reported : Jun 06, 2024

Report Number : 3010620-1

Page 1 of 1

Sample Number	2429715-3
Sampled Date	May 29, 2024 12:30 PM
Sample Description	Groundwater
Location	บ่อสังเกตการณ์ 3 MW3 : HDPE2
Date Analysis Commenced	May 29, 2024
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		-	-	4.5	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): ในกรณีที่มีการปนเปื้อนของกรดหรือด่างให้เปรียบเทียบผลวิเคราะห์ค่าพีเอชจากจุดเก็บตัวอย่างบ่อน้ำที่ใช้ในการติดตามตรวจสอบการปนเปื้อนกับผลวิเคราะห์จากจุดเก็บตัวอย่างบ่อเหนือน้ำที่ใช้เป็นบ่ออ้างอิงบนทิศทางการไหลของน้ำใต้ดินในพื้นที่ โดยค่าพีเอชที่เปลี่ยนแปลงจะต้องไม่เกินหนึ่งระดับ และไม่อยู่นอกช่วงค่าเกณฑ์อนุโลมสูงสุดของมาตรฐานคุณภาพน้ำบาดาลที่บริโภคคือ 6.5-9.2

Sampling By : Wanlop Hunchainaow ทะเบียนเลขที่ ว-323-จ-9457 , Samart Khumphlee ทะเบียนเลขที่ ว-204-จ-0084

Remark :

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

Technical Management

Photchana S.

Photchana Seeda

Scientist (4)

ทะเบียนเลขที่ ว-323-จ-9446

Approved by

D. Changchon.

Dej Changchon

Senior Manager

ทะเบียนเลขที่ ว-323-ค-9442

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. No part of this report 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.

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Pluakdaeng Rayong 21140 Thailand | PHONE +66 0 3304 8555 | FAX +66 0 3304 8556
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



Analysis / Test Report

Client : Thai Polyethylene Co., Ltd.
271, Sukhumvit Road, Tambol Map Ta Phut, Amphur Muang, Rayong Thailand 21150
P/O : PMM-23-11
Project Name : Environmental Monitoring
Project Location : TPE Site 3

Lot ID: 2429715

Date Received : May 29, 2024

Date Reported : Jun 06, 2024

Report Number : 3010620-2

Page 1 of 1

Sample Number	2429715-3						
Sampled Date	May 29, 2024 12:30 PM						
Sample Description	Groundwater						
Location	บ่อสังเกตการณ์ 3 MW3 : HDPE2						
Date Analysis Commenced	May 30, 2024						
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 C	Bangkok
TPH C>8-C16	mg/L	-	0.05	<0.05	1.7	United States Environmental Protection Agency, EPA Method 3510 C and 8015 C	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

Note : TPH C5-C8: Sum of n-Pentane, n-Hexane, n-Heptane and n-Octane
TPH C>8-C16: Sum of n-Nonane, n-Decane, n-Undecane, n-Dodecane, n-Tridecane, n-Tetradecane, n-Pentadecane and n-Hexadecane
TPH C>16-C35: Sum of n-Heptadecane, Pristane, n-Octadecane, Phytane, n-Nonadecane, n-Eicosane, 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-Tetratriacontane and n-Pentatriacontane
Integration mode: Peak to Peak

Sampling By : Wanlop Hunchainaow ทะเบียนเลขที่ ว-323-จ-9457 , Samart Khumplee ทะเบียนเลขที่ ว-204-จ-0084

Remark :

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

Technical Management

Nant Somb

Nanthawadee Somboon
Specialist 2
ทะเบียนเลขที่ ว-204-จ-0010

Approved by

Kanokkorn Anek

Kanokkorn Anek
Senior Manager
ทะเบียนเลขที่ ว-204-ค-0004

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. No part of this report 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.

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand | PHONE +66 0 2760 3000 | FAX +66 0 2760 3197
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



Analysis / Test Report

Client : Thai Polyethylene Co., Ltd.
271, Sukhumvit Road, Tambol Map Ta Phut, Amphur Muang, Rayong Thailand 21150
P/O : PMM-23-11
Project Name : Environmental Monitoring
Project Location : TPE Site 3

Lot ID: 2429715

Date Received : May 29, 2024

Date Reported : Jun 06, 2024

Report Number : 3010621-1

Page 1 of 1

Sample Number	2429715-4
Sampled Date	May 29, 2024 10:50 AM
Sample Description	Groundwater
Location	บ่อสังเกตการณ์ 4 MW4 : HDPE3
Date Analysis Commenced	May 29, 2024
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		-	-	5.1	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): ในกรณีที่มีการปนเปื้อนของกรดหรือด่างให้เปรียบเทียบผลวิเคราะห์ค่าพีเอชจากจุดเก็บตัวอย่างบ่อน้ำที่ใช้ในการติดตามตรวจสอบการปนเปื้อนกับผลวิเคราะห์จากจุดเก็บตัวอย่างบ่อเหนือน้ำที่ใช้เป็นบ่ออ้างอิงบนทิศทางการไหลของน้ำใต้ดินในพื้นที่ โดยค่าพีเอชที่เปลี่ยนแปลงจะต้องไม่เกินหนึ่งระดับ และไม่อยู่นอกช่วงค่าเกณฑ์อนุโลมสูงสุดของมาตรฐานคุณภาพน้ำบาดาลที่บริโภคคือ 6.5-9.2

Sampling By : Wanlop Hunchainaow ทะเบียนเลขที่ ว-323-จ-9457 , Samart Khumphlee ทะเบียนเลขที่ ว-204-จ-0084

Remark :

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

Technical Management

Photchana S.

Photchana Seeda

Scientist (4)

ทะเบียนเลขที่ ว-323-จ-9446

Approved by

D. Changchon.

Dej Changchon

Senior Manager

ทะเบียนเลขที่ ว-323-ค-9442

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. No part of this report 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.

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Pluakdaeng Rayong 21140 Thailand | PHONE +66 0 3304 8555 | FAX +66 0 3304 8556
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



Analysis / Test Report

Client : Thai Polyethylene Co., Ltd.
271, Sukhumvit Road, Tambol Map Ta Phut, Amphur Muang, Rayong Thailand 21150
P/O : PMM-23-11
Project Name : Environmental Monitoring
Project Location : TPE Site 3

Lot ID: 2429715

Date Received : May 29, 2024

Date Reported : Jun 06, 2024

Report Number : 3010621-2

Page 1 of 1

Sample Number	2429715-4						
Sampled Date	May 29, 2024 10:50 AM						
Sample Description	Groundwater						
Location	บ่อสังเกตการณ์ 4 MW4 : HDPE3						
Date Analysis Commenced	May 30, 2024						
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 C	Bangkok
TPH C>8-C16	mg/L	-	0.05	<0.05	1.7	United States Environmental Protection Agency, EPA Method 3510 C and 8015 C	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

Note : TPH C5-C8: Sum of n-Pentane, n-Hexane, n-Heptane and n-Octane
TPH C>8-C16: Sum of n-Nonane, n-Decane, n-Undecane, n-Dodecane, n-Tridecane, n-Tetradecane, n-Pentadecane and n-Hexadecane
TPH C>16-C35: Sum of n-Heptadecane, Pristane, n-Octadecane, Phytane, n-Nonadecane, n-Eicosane, 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-Tetratriacontane and n-Pentatriacontane
Integration mode: Peak to Peak

Sampling By : Wanlop Hunchainaow ทะเบียนเลขที่ ว-323-จ-9457 , Samart Khumplee ทะเบียนเลขที่ ว-204-จ-0084

Remark :

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

Technical Management

Nant Somb

Nanthawadee Somboon
Specialist 2
ทะเบียนเลขที่ ว-204-จ-0010

Approved by

Kanokkorn Anek

Kanokkorn Anek
Senior Manager
ทะเบียนเลขที่ ว-204-ค-0004

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. No part of this report 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.

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand | PHONE +66 0 2760 3000 | FAX +66 0 2760 3197
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER

คุณภาพดิน



Analysis / Test Report

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

P/O :
Project Name : Environmental Monitoring
Project Location : HDPE#3

Lot ID: 2296946

Date Received : Sep 15, 2022
Date Reported : Sep 24, 2022
Report Number : 2445211-1

Page 1 of 1

Sample Number 2296946-1
Sampled Date Sep 15, 2022 9:50 AM
Sample Description Soil
Location บ่อสังกะสีการไฟฟ้า 4 MW4 HDPE3 30 cm
Date Analysis Commenced Sep 16, 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)



Analysis / Test Report

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

P/O :
Project Name : Environmental Monitoring
Project Location : HDPE#3

Lot ID: 2296946

Date Received : Sep 15, 2022
Date Reported : Sep 24, 2022
Report Number : 2445211-2

Page 1 of 1

Sample Number 2296946-1
Sampled Date Sep 15, 2022 9:50 AM
Sample Description Soil
Location บ่อสังกะสีการไฟฟ้า 4 MW4 HDPE3 30 cm
Date Analysis Commenced Sep 16, 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 :
- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)

Technical Management

Narin Saiseng
Supervisor

หมายเลขโทรศัพท์ 2-204-4715

Approved by

Kanokkorn Anek
Senior Manager

หมายเลขโทรศัพท์ 2-204-6111

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.

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand | PHONE +66 0 2760 3000 | FAX +66 0 2760 3197
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER

8207-81/ EMAIL

S:\Reports\All_GL_rpt (10:49AM)

Approved by

Narin Saiseng
Supervisor

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand | PHONE +66 0 2760 3000 | FAX +66 0 2760 3197
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER

8207-81/ EMAIL

S:\Reports\All_GL_rpt (10:49AM)



Analysis / Test Report

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

P/O :
Project Name : Environmental Monitoring
Project Location : HDPE#3

Lot ID: 2296946

Date Received : Sep 15, 2022
Date Reported : Sep 24, 2022
Report Number : 2445212-1

Page 1 of 1

Sample Number 2296946-2
Sampled Date Sep 15, 2022 10:00 AM
Sample Description Soil
Location บ่อบึงหนองปรือ 4 MW4 HDPE3 1.5 m
Date Analysis Commenced Sep 16, 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)



Analysis / Test Report

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

P/O :
Project Name : Environmental Monitoring
Project Location : HDPE#3

Lot ID: 2296946

Date Received : Sep 15, 2022
Date Reported : Sep 24, 2022
Report Number : 2445212-2

Page 1 of 1

Sample Number 2296946-2
Sampled Date Sep 15, 2022 10:00 AM
Sample Description Soil
Location บ่อบึงหนองปรือ 4 MW4 HDPE3 1.5 m
Date Analysis Commenced Sep 16, 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 :
- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)

Technical Management

Narin Saiseng
Supervisor

ทะเบียนเลขที่ 2-204-3-4715

Approved by

Kanokkorn Anek
Senior Manager

ทะเบียนเลขที่ 2-204-3-6111

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.

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand | PHONE +66 0 2760 3000 | FAX +66 0 2760 3197
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER

8207-81/ EMAIL

S:\Reports\All_GL_rpt (10:50AM)

Approved by

Narin Saiseng
Supervisor

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand | PHONE +66 0 2760 3000 | FAX +66 0 2760 3197
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER

8207-81/ EMAIL

S:\Reports\All_GL_rpt (10:50AM)



Analysis / Test Report

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

P/O :
Project Name : Environmental Monitoring
Project Location : HDPE#3

Lot ID: 2296946

Date Received : Sep 15, 2022
Date Reported : Sep 24, 2022
Report Number : 2445213-1

Page 1 of 1

Sample Number 2296946-3
Sampled Date Sep 15, 2022 12:20 PM
Sample Description Soil
Location บ่าส่งผลการ 2 MW2 : HDPE3 30 cm
Date Analysis Commenced Sep 16, 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)



Analysis / Test Report

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

P/O :
Project Name : Environmental Monitoring
Project Location : HDPE#3

Lot ID: 2296946

Date Received : Sep 15, 2022
Date Reported : Sep 24, 2022
Report Number : 2445213-2

Page 1 of 1

Sample Number 2296946-3
Sampled Date Sep 15, 2022 12:20 PM
Sample Description Soil
Location บ่าส่งผลการ 2 MW2 : HDPE3 30 cm
Date Analysis Commenced Sep 16, 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

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

Technical Management

Narin Saiseng
Supervisor

ทะเบียนเลขที่ 2-204-3-4715

Approved by

Kanokkorn Anek
Senior Manager

ทะเบียนเลขที่ 2-204-3-6111

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.

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand | PHONE +66 0 2760 3000 | FAX +66 0 2760 3197
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER

8207-81/ EMAIL

S:\Reports\All_GL_rpt (10:50AM)

Approved by

Narin Saiseng
Supervisor

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand | PHONE +66 0 2760 3000 | FAX +66 0 2760 3197
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER

8207-81/ EMAIL

S:\Reports\All_GL_rpt (10:50AM)



Analysis / Test Report

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

P/O :
Project Name : Environmental Monitoring
Project Location : HDPE#2

Lot ID: 2296953

Date Received : Sep 15, 2022
Date Reported : Sep 24, 2022
Report Number : 2445208-1

Page 1 of 1

Sample Number 2296953-1
Sampled Date Sep 15, 2022 10:30 AM
Sample Description Soil
Location บ่อสังกะสีการณ 3 MW3 HDPE2 30 cm.
Date Analysis Commenced Sep 16, 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)



Analysis / Test Report

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

P/O :
Project Name : Environmental Monitoring
Project Location : HDPE#2

Lot ID: 2296953

Date Received : Sep 15, 2022
Date Reported : Sep 24, 2022
Report Number : 2445208-2

Page 1 of 1

Sample Number 2296953-1
Sampled Date Sep 15, 2022 10:30 AM
Sample Description Soil
Location บ่อสังกะสีการณ 3 MW3 HDPE2 30 cm.
Date Analysis Commenced Sep 16, 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)		-	-	8.2	No Standard	Based on US EPA, Method 9045D	Bangkok

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

Sampled By : Thanasoun Namakunna

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

Technical Management

Narin Saiseng
Supervisor

หมายเลขโทรศัพท์ 2-204-4715

Approved by

Kanokkorn Anek
Senior Manager

หมายเลขโทรศัพท์ 2-204-6111

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.

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand | PHONE +66 0 2760 3000 | FAX +66 0 2760 3197
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER

8207-81/ EMAIL

S:\Reports\All_GL_rpt (10:53AM)

Approved by

Narin Saiseng
Supervisor

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand | PHONE +66 0 2760 3000 | FAX +66 0 2760 3197
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER

8207-81/ EMAIL

S:\Reports\All_GL_rpt (10:53AM)



Analysis / Test Report

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

P/O :
Project Name : Environmental Monitoring
Project Location : HDPE#2

Lot ID: 2296953

Date Received : Sep 15, 2022
Date Reported : Sep 24, 2022
Report Number : 2445209-1

Page 1 of 1

Sample Number 2296953-2
Sampled Date Sep 15, 2022 10:40 AM
Sample Description Soil
Location บ่อสังกะสีการณ 3 MW3 HDPE2 3 m.
Date Analysis Commenced Sep 16, 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)



Analysis / Test Report

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

P/O :
Project Name : Environmental Monitoring
Project Location : HDPE#2

Lot ID: 2296953

Date Received : Sep 15, 2022
Date Reported : Sep 24, 2022
Report Number : 2445209-2

Page 1 of 1

Sample Number 2296953-2
Sampled Date Sep 15, 2022 10:40 AM
Sample Description Soil
Location บ่อสังกะสีการณ 3 MW3 HDPE2 3 m.
Date Analysis Commenced Sep 16, 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)		-	-	4.1	No Standard	Based on US EPA, Method 9045D	Bangkok

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

Sampled By : Thanasoun Namakunna

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

Technical Management

Narin Saiseng
Supervisor

ทะเบียนเลขที่ 2-204-3-4715

Approved by

Kanokkorn Anek
Senior Manager

ทะเบียนเลขที่ 2-204-3-6111

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.

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand | PHONE +66 0 2760 3000 | FAX +66 0 2760 3197
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER

8207-81/ EMAIL

S:\Reports\All_GL_rpt (10:53AM)

Approved by

Narin Saiseng
Supervisor

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand | PHONE +66 0 2760 3000 | FAX +66 0 2760 3197
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER

8207-81/ EMAIL

S:\Reports\All_GL_rpt (10:54AM)



Analysis / Test Report

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

P/O :
Project Name : Environmental Monitoring
Project Location : HDPE#2

Lot ID: 2296953

Date Received : Sep 15, 2022
Date Reported : Sep 24, 2022
Report Number : 2445210-1

Page 1 of 1

Sample Number 2296953-3
Sampled Date Sep 15, 2022 11:30 AM
Sample Description Soil
Location บ่อสังกะสีการไฟฟ้า 1 MW1 : HDPE2 30 cm.
Date Analysis Commenced Sep 16, 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)



Analysis / Test Report

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

P/O :
Project Name : Environmental Monitoring
Project Location : HDPE#2

Lot ID: 2296953

Date Received : Sep 15, 2022
Date Reported : Sep 24, 2022
Report Number : 2445210-2

Page 1 of 1

Sample Number 2296953-3
Sampled Date Sep 15, 2022 11:30 AM
Sample Description Soil
Location บ่อสังกะสีการไฟฟ้า 1 MW1 : HDPE2 30 cm.
Date Analysis Commenced Sep 16, 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)		-	-	8.3	No Standard	Based on US EPA, Method 9045D	Bangkok

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

Sampled By : Thanasoun Namakunna

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

Technical Management

Narin Saiseng
Supervisor

ทะเบียนเลขที่ 2-204-3-4715

Approved by

Kanokkorn Anek
Senior Manager

ทะเบียนเลขที่ 2-204-3-6111

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.

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand | PHONE +66 0 2760 3000 | FAX +66 0 2760 3197
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER

8207-81/ EMAIL

S:\Reports_All_GL_rpt (10:54AM)

Approved by

Narin Saiseng
Supervisor

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand | PHONE +66 0 2760 3000 | FAX +66 0 2760 3197
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER

8207-81/ EMAIL

S:\Reports_All_GL_rpt (10:54AM)

ระดับเสียงเฉลี่ย 24 ชั่วโมง



Analysis / Test Report

TESTING
No.0042

Client : Thai Polyethylene Co., Ltd.
271, Sukhumvit Road, Tambol Map Ta Phut, Amphur Muang, Rayong Thailand 21150
P/O : PMM-23-11
Project Name : Environmental Monitoring
Project Location : TPE Site 3

Lot ID: 2444669

Date Received : May 29, 2024
Date Reported : Jun 01, 2024
Report Number: 3010640-1

Page 1 of 1

Sample Number 2444669-1
Parameter Noise (Leq 24 hrs.)
Location บริเวณทางเข้าพื้นที่ SCG Chemicals Site#3 (GPS 47P 0733710, 1407346)
Measurement Date May 13 - May 14, 2024
Measurement by Anuwet Tema
Sound Level meter Serial No. 734221

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
10:00 AM - 11:00 AM	62.0	77.7	56.9
11:00 AM - 12:00 PM	62.6	82.8	57.6
12:00 PM - 01:00 PM	61.2	85.1	57.2
01:00 PM - 02:00 PM	60.7	83.9	56.3
02:00 PM - 03:00 PM	64.9	87.7	58.3
03:00 PM - 04:00 PM	63.4	85.0	59.4
04:00 PM - 05:00 PM	66.7	92.9	59.8
05:00 PM - 06:00 PM	63.4	78.7	58.8
06:00 PM - 07:00 PM	62.9	82.3	58.9
07:00 PM - 08:00 PM	62.2	77.3	56.3
08:00 PM - 09:00 PM	59.2	84.9	55.1
09:00 PM - 10:00 PM	58.2	82.0	55.1
10:00 PM - 11:00 PM	57.5	72.2	54.3
11:00 PM - 12:00 AM	60.2	74.4	54.9
12:00 AM - 01:00 AM	57.5	76.4	54.6
01:00 AM - 02:00 AM	56.6	73.0	54.2
02:00 AM - 03:00 AM	57.5	74.8	55.0
03:00 AM - 04:00 AM	67.6	79.6	57.3
04:00 AM - 05:00 AM	68.0	85.9	61.4
05:00 AM - 06:00 AM	68.5	87.7	61.6
06:00 AM - 07:00 AM	63.8	84.9	58.1
07:00 AM - 08:00 AM	63.8	80.2	56.0
08:00 AM - 09:00 AM	62.2	76.8	54.8
09:00 AM - 10:00 AM	61.6	74.6	55.8

Leq Average 24 hrs. (dB(A)) 63.5
Lmax (dB(A)) 92.9
L90 (dB(A)) 56.3
Ldn (dB(A)) 70.6
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



Analysis / Test Report

TESTING
No.0042

Client : Thai Polyethylene Co., Ltd.
271, Sukhumvit Road, Tambol Map Ta Phut, Amphur Muang, Rayong Thailand 21150
P/O : PMM-23-11
Project Name : Environmental Monitoring
Project Location : TPE Site 3

Lot ID: 2444669

Date Received : May 29, 2024
Date Reported : Jun 01, 2024
Report Number: 3010641-1

Page 1 of 1

Sample Number 2444669-2
Parameter Noise (Leq 24 hrs.)
Location บริเวณทางเข้าพื้นที่ SCG Chemicals Site#3 (GPS 47P 0733710, 1407346)
Measurement Date May 14 - May 15, 2024
Measurement by Anuwet Tema
Sound Level meter Serial No. 734221

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
10:00 AM - 11:00 AM	63.8	79.0	56.6
11:00 AM - 12:00 PM	64.6	81.8	57.4
12:00 PM - 01:00 PM	59.7	77.0	56.8
01:00 PM - 02:00 PM	63.2	77.7	56.9
02:00 PM - 03:00 PM	63.6	85.4	58.2
03:00 PM - 04:00 PM	61.4	77.7	57.5
04:00 PM - 05:00 PM	66.1	90.4	59.2
05:00 PM - 06:00 PM	63.3	80.9	58.5
06:00 PM - 07:00 PM	62.1	74.2	58.0
07:00 PM - 08:00 PM	59.6	80.6	55.6
08:00 PM - 09:00 PM	60.9	75.9	55.7
09:00 PM - 10:00 PM	58.4	75.2	56.0
10:00 PM - 11:00 PM	60.8	79.1	56.3
11:00 PM - 12:00 AM	58.6	81.1	56.7
12:00 AM - 01:00 AM	62.1	71.3	55.6
01:00 AM - 02:00 AM	57.4	71.7	55.1
02:00 AM - 03:00 AM	58.2	71.2	56.1
03:00 AM - 04:00 AM	67.1	78.7	57.6
04:00 AM - 05:00 AM	67.8	87.3	61.0
05:00 AM - 06:00 AM	68.9	87.0	61.6
06:00 AM - 07:00 AM	65.2	84.5	58.5
07:00 AM - 08:00 AM	62.9	83.0	57.7
08:00 AM - 09:00 AM	66.6	79.2	59.3
09:00 AM - 10:00 AM	67.6	80.3	59.2

Leq Average 24 hrs. (dB(A)) 64.1
Lmax (dB(A)) 90.4
L90 (dB(A)) 57.4
Ldn (dB(A)) 71.0
Standard (dB(A)) 70 115

Reference Method : ISO1996-1 and 1996-2

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

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Pluakdaeng Rayong 21140 Thailand | PHONE +66 0 3304 8555 | FAX +66 0 3304 8556
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



Analysis / Test Report

TESTING
No.0042

Client : Thai Polyethylene Co., Ltd.
271, Sukhumvit Road, Tambol Map Ta Phut, Amphur Muang, Rayong Thailand 21150
P/O : PMM-23-11
Project Name : Environmental Monitoring
Project Location : TPE Site 3

Lot ID: 2444669

Date Received : May 29, 2024
Date Reported : Jun 01, 2024
Report Number: 3010642-1

Page 1 of 1

Sample Number 2444669-3
Parameter Noise (Leq 24 hrs.)
Location บริเวณทางเข้าพื้นที่ SCG Chemicals Site#3 (GPS 47P 0733710, 1407346)
Measurement Date May 15 - May 16, 2024
Measurement by Anuwet Tema
Sound Level meter Serial No. 734221

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
10:00 AM - 11:00 AM	63.2	82.2	58.4
11:00 AM - 12:00 PM	62.7	79.3	57.9
12:00 PM - 01:00 PM	62.8	77.9	57.8
01:00 PM - 02:00 PM	61.5	84.2	57.6
02:00 PM - 03:00 PM	63.8	88.6	58.6
03:00 PM - 04:00 PM	62.2	81.7	58.5
04:00 PM - 05:00 PM	66.9	91.9	59.5
05:00 PM - 06:00 PM	64.1	85.0	58.9
06:00 PM - 07:00 PM	62.4	82.8	57.6
07:00 PM - 08:00 PM	60.5	79.0	56.7
08:00 PM - 09:00 PM	60.8	79.0	56.4
09:00 PM - 10:00 PM	59.5	77.2	56.1
10:00 PM - 11:00 PM	58.8	73.3	56.0
11:00 PM - 12:00 AM	58.4	81.5	55.8
12:00 AM - 01:00 AM	57.9	81.0	55.6
01:00 AM - 02:00 AM	64.7	72.9	56.3
02:00 AM - 03:00 AM	59.3	84.2	56.7
03:00 AM - 04:00 AM	66.9	81.8	57.7
04:00 AM - 05:00 AM	68.4	89.0	61.3
05:00 AM - 06:00 AM	68.4	85.9	61.1
06:00 AM - 07:00 AM	64.0	80.6	58.5
07:00 AM - 08:00 AM	65.9	77.1	57.6
08:00 AM - 09:00 AM	60.7	77.7	57.1
09:00 AM - 10:00 AM	65.1	85.8	57.5

Leq Average 24 hrs. (dB(A)) 63.9
Lmax (dB(A)) 91.9
L90 (dB(A)) 57.6
Ldn (dB(A)) 71.0
Standard (dB(A)) 70 115

Reference Method : ISO1996-1 and 1996-2

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



Analysis / Test Report

TESTING
No.0042

Client : Thai Polyethylene Co., Ltd.
271, Sukhumvit Road, Tambol Map Ta Phut, Amphur Muang, Rayong Thailand 21150
P/O : PMM-23-11
Project Name : Environmental Monitoring
Project Location : TPE Site 3

Lot ID: 2444669

Date Received : May 29, 2024
Date Reported : Jun 01, 2024
Report Number: 3010643-1

Page 1 of 1

Sample Number 2444669-4
Parameter Noise (Leq 24 hrs.)
Location บริเวณทางเข้าพื้นที่ SCG Chemicals Site#3 (GPS 47P 0733710, 1407346)
Measurement Date May 16 - May 17, 2024
Measurement by Anuwet Tema
Sound Level meter Serial No. 734221

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
10:00 AM - 11:00 AM	63.8	86.3	57.6
11:00 AM - 12:00 PM	65.8	86.1	59.8
12:00 PM - 01:00 PM	63.0	81.8	58.4
01:00 PM - 02:00 PM	62.5	81.6	58.5
02:00 PM - 03:00 PM	64.8	82.3	59.7
03:00 PM - 04:00 PM	63.3	84.1	59.3
04:00 PM - 05:00 PM	67.4	91.7	59.7
05:00 PM - 06:00 PM	65.0	90.8	58.4
06:00 PM - 07:00 PM	62.0	76.4	57.6
07:00 PM - 08:00 PM	61.0	78.6	56.6
08:00 PM - 09:00 PM	60.0	80.9	56.3
09:00 PM - 10:00 PM	60.2	73.8	56.4
10:00 PM - 11:00 PM	62.6	77.6	59.0
11:00 PM - 12:00 AM	62.1	79.0	60.5
12:00 AM - 01:00 AM	61.8	84.8	59.0
01:00 AM - 02:00 AM	60.2	85.4	57.4
02:00 AM - 03:00 AM	59.9	84.2	57.7
03:00 AM - 04:00 AM	68.1	78.7	56.2
04:00 AM - 05:00 AM	69.3	90.7	61.2
05:00 AM - 06:00 AM	69.1	90.5	61.6
06:00 AM - 07:00 AM	68.1	85.6	61.0
07:00 AM - 08:00 AM	66.8	78.0	58.5
08:00 AM - 09:00 AM	65.2	79.4	55.7
09:00 AM - 10:00 AM	61.6	86.1	56.1

Leq Average 24 hrs. (dB(A)) 64.9
Lmax (dB(A)) 91.7
L90 (dB(A)) 58.4
Ldn (dB(A)) 72.3
Standard (dB(A)) 70 115

Reference Method : ISO1996-1 and 1996-2

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

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

Technical Management

Thanita K.

Thanita Kulsuriwong
Scientist (4)

Approved by

Supot S.

Supot Salamteh
Section Head

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Pluakdaeng Rayong 21140 Thailand | PHONE +66 0 3304 8555 | FAX +66 0 3304 8556
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



Analysis / Test Report

TESTING
No.0042

Client : Thai Polyethylene Co., Ltd.
271, Sukhumvit Road, Tambol Map Ta Phut, Amphur Muang, Rayong Thailand 21150
P/O : PMM-23-11
Project Name : Environmental Monitoring
Project Location : TPE Site 3

Lot ID: 2444669

Date Received : May 29, 2024
Date Reported : Jun 01, 2024
Report Number: 3010644-1

Page 1 of 1

Sample Number 2444669-5
Parameter Noise (Leq 24 hrs.)
Location บริเวณทางเข้าพื้นที่ SCG Chemicals Site#3 (GPS 47P 0733710, 1407346)
Measurement Date May 17 - May 18, 2024
Measurement by Anuwet Tema
Sound Level meter Serial No. 734221

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
10:00 AM - 11:00 AM	64.5	85.2	56.3
11:00 AM - 12:00 PM	63.6	81.6	57.2
12:00 PM - 01:00 PM	60.1	81.6	55.8
01:00 PM - 02:00 PM	62.4	77.0	56.7
02:00 PM - 03:00 PM	64.1	82.4	57.7
03:00 PM - 04:00 PM	61.8	83.0	57.0
04:00 PM - 05:00 PM	66.8	90.2	58.1
05:00 PM - 06:00 PM	63.3	87.4	56.2
06:00 PM - 07:00 PM	62.1	79.1	55.7
07:00 PM - 08:00 PM	60.7	82.0	54.3
08:00 PM - 09:00 PM	60.6	77.6	53.6
09:00 PM - 10:00 PM	58.4	73.6	53.7
10:00 PM - 11:00 PM	61.6	72.7	54.2
11:00 PM - 12:00 AM	55.9	76.6	53.1
12:00 AM - 01:00 AM	57.2	77.6	53.4
01:00 AM - 02:00 AM	63.1	74.9	53.1
02:00 AM - 03:00 AM	55.7	71.2	52.8
03:00 AM - 04:00 AM	67.2	78.2	58.0
04:00 AM - 05:00 AM	68.1	87.3	60.3
05:00 AM - 06:00 AM	68.0	79.2	59.7
06:00 AM - 07:00 AM	64.1	81.3	57.5
07:00 AM - 08:00 AM	60.0	82.8	55.4
08:00 AM - 09:00 AM	64.3	77.5	56.6
09:00 AM - 10:00 AM	65.4	87.9	59.0

Leq Average 24 hrs. (dB(A)) 63.7
Lmax (dB(A)) 90.2
L90 (dB(A)) 56.2
Ldn (dB(A)) 70.7
Standard (dB(A)) 70 115

Reference Method : ISO1996-1 and 1996-2

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



Analysis / Test Report

TESTING
No.0042

Client : Thai Polyethylene Co., Ltd.
271, Sukhumvit Road, Tambol Map Ta Phut, Amphur Muang, Rayong Thailand 21150
P/O : PMM-23-11
Project Name : Environmental Monitoring
Project Location : TPE Site 3

Lot ID: 2444669

Date Received : May 29, 2024
Date Reported : Jun 01, 2024
Report Number: 3010645-1

Page 1 of 1

Sample Number 2444669-6
Parameter Noise (Leq 24 hrs.)
Location บริเวณทางเข้าพื้นที่ SCG Chemicals Site#3 (GPS 47P 0733710, 1407346)
Measurement Date May 18 - May 19, 2024
Measurement by Anuwet Tema
Sound Level meter Serial No. 734221

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
10:00 AM - 11:00 AM	66.7	85.0	57.6
11:00 AM - 12:00 PM	66.7	85.5	57.6
12:00 PM - 01:00 PM	61.1	87.6	56.9
01:00 PM - 02:00 PM	65.1	74.9	57.8
02:00 PM - 03:00 PM	63.5	85.0	57.9
03:00 PM - 04:00 PM	62.4	78.8	57.9
04:00 PM - 05:00 PM	63.7	76.7	55.7
05:00 PM - 06:00 PM	63.4	82.5	57.8
06:00 PM - 07:00 PM	61.7	87.0	56.5
07:00 PM - 08:00 PM	63.1	81.2	58.0
08:00 PM - 09:00 PM	62.9	81.6	58.5
09:00 PM - 10:00 PM	64.2	81.1	58.5
10:00 PM - 11:00 PM	61.7	81.3	58.1
11:00 PM - 12:00 AM	63.1	81.5	55.6
12:00 AM - 01:00 AM	59.6	75.3	55.9
01:00 AM - 02:00 AM	57.3	72.2	54.8
02:00 AM - 03:00 AM	57.1	73.6	54.6
03:00 AM - 04:00 AM	67.7	74.6	56.1
04:00 AM - 05:00 AM	67.4	95.4	57.5
05:00 AM - 06:00 AM	64.9	83.2	58.4
06:00 AM - 07:00 AM	62.2	86.1	57.0
07:00 AM - 08:00 AM	60.4	81.5	56.6
08:00 AM - 09:00 AM	65.2	78.2	57.2
09:00 AM - 10:00 AM	66.8	79.3	57.9

Leq Average 24 hrs. (dB(A)) 64.1
Lmax (dB(A)) 95.4
L90 (dB(A)) 57.5
Ldn (dB(A)) 70.3
Standard (dB(A)) 70 115

Reference Method : ISO1996-1 and 1996-2

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

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

Technical Management

Thanita K.

Thanita Kulsuriwong
Scientist (4)

Approved by

Supot S.

Supot Salamteh
Section Head



Analysis / Test Report

TESTING
No.0042

Client : Thai Polyethylene Co., Ltd.
271, Sukhumvit Road, Tambol Map Ta Phut, Amphur Muang, Rayong Thailand 21150
P/O : PMM-23-11
Project Name : Environmental Monitoring
Project Location : TPE Site 3

Lot ID: 2444669

Date Received : May 29, 2024
Date Reported : Jun 01, 2024
Report Number: 3010646-1

Page 1 of 1

Sample Number 2444669-7
Parameter Noise (Leq 24 hrs.)
Location บริเวณทางเข้าพื้นที่ SCG Chemicals Site#3 (GPS 47P 0733710, 1407346)
Measurement Date May 19 - May 20, 2024
Measurement by Anuwet Tema
Sound Level meter Serial No. 734221

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
10:00 AM - 11:00 AM	63.6	86.9	56.5
11:00 AM - 12:00 PM	60.7	80.4	56.3
12:00 PM - 01:00 PM	65.2	74.7	56.2
01:00 PM - 02:00 PM	60.5	77.6	56.7
02:00 PM - 03:00 PM	61.1	79.1	57.0
03:00 PM - 04:00 PM	59.8	76.6	56.3
04:00 PM - 05:00 PM	66.3	80.9	56.6
05:00 PM - 06:00 PM	63.7	90.5	57.5
06:00 PM - 07:00 PM	62.5	76.6	57.6
07:00 PM - 08:00 PM	62.3	89.4	56.7
08:00 PM - 09:00 PM	59.5	73.7	56.0
09:00 PM - 10:00 PM	63.1	79.5	56.2
10:00 PM - 11:00 PM	57.3	72.0	55.6
11:00 PM - 12:00 AM	56.9	80.4	54.0
12:00 AM - 01:00 AM	59.9	76.7	56.4
01:00 AM - 02:00 AM	62.7	79.1	55.8
02:00 AM - 03:00 AM	57.6	72.3	55.9
03:00 AM - 04:00 AM	56.8	80.3	53.9
04:00 AM - 05:00 AM	59.9	81.0	56.1
05:00 AM - 06:00 AM	63.0	82.6	59.4
06:00 AM - 07:00 AM	66.9	77.9	57.7
07:00 AM - 08:00 AM	64.0	90.8	57.8
08:00 AM - 09:00 AM	67.6	82.2	57.9
09:00 AM - 10:00 AM	66.2	80.8	56.5

Leq Average 24 hrs. (dB(A)) 63.0
Lmax (dB(A)) 90.8
L90 (dB(A)) 56.4
Ldn (dB(A)) 68.3
Standard (dB(A)) 70 115

Reference Method : ISO1996-1 and 1996-2

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

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

Technical Management

Thanita K.

Thanita Kulsuriwong
Scientist (4)

Approved by

Supot S.

Supot Salamteh
Section Head



Analysis / Test Report

TESTING
No.0042

Client : Thai Polyethylene Co., Ltd.
271, Sukhumvit Road, Tambol Map Ta Phut, Amphur Muang, Rayong Thailand 21150
P/O : PMM-23-11
Project Name : Environmental Monitoring
Project Location : TPE Site 3

Lot ID: 2444669

Date Received : May 29, 2024
Date Reported : Jun 01, 2024
Report Number: 3010647-1

Page 1 of 1

Sample Number 2444669-8
Parameter Noise (Leq 24 hrs.)
Location ด้านทิศตะวันออกของ SCG Chemicals Site#3 (GPS 47P 0734053, 1406462)
Measurement Date May 13 - May 14, 2024
Measurement by Anuwet Tema
Sound Level meter Serial No. 734223

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
12:00 PM - 01:00 PM	54.9	66.7	53.7
01:00 PM - 02:00 PM	56.2	71.0	54.0
02:00 PM - 03:00 PM	54.6	66.8	52.7
03:00 PM - 04:00 PM	52.6	61.6	51.8
04:00 PM - 05:00 PM	52.8	62.8	51.7
05:00 PM - 06:00 PM	53.1	60.8	52.3
06:00 PM - 07:00 PM	56.0	63.0	53.4
07:00 PM - 08:00 PM	55.4	65.0	54.0
08:00 PM - 09:00 PM	56.7	63.6	55.5
09:00 PM - 10:00 PM	53.7	62.9	52.4
10:00 PM - 11:00 PM	53.8	61.7	52.9
11:00 PM - 12:00 AM	53.5	56.4	52.7
12:00 AM - 01:00 AM	53.3	57.3	52.2
01:00 AM - 02:00 AM	55.3	60.4	53.8
02:00 AM - 03:00 AM	53.7	56.4	52.8
03:00 AM - 04:00 AM	53.0	58.9	52.3
04:00 AM - 05:00 AM	54.9	63.0	52.6
05:00 AM - 06:00 AM	54.7	61.6	52.9
06:00 AM - 07:00 AM	52.9	61.3	51.8
07:00 AM - 08:00 AM	52.5	60.0	51.3
08:00 AM - 09:00 AM	51.2	67.2	49.8
09:00 AM - 10:00 AM	54.2	61.6	49.9
10:00 AM - 11:00 AM	51.8	59.1	49.6
11:00 AM - 12:00 PM	52.0	57.6	50.8

Leq Average 24 hrs. (dB(A)) 54.1
Lmax (dB(A)) 71.0
L90 (dB(A)) 52.4
Ldn (dB(A)) 60.4
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



Analysis / Test Report

TESTING
No.0042

Client : Thai Polyethylene Co., Ltd.
271, Sukhumvit Road, Tambol Map Ta Phut, Amphur Muang, Rayong Thailand 21150
P/O : PMM-23-11
Project Name : Environmental Monitoring
Project Location : TPE Site 3

Lot ID: 2444669

Date Received : May 29, 2024
Date Reported : Jun 01, 2024
Report Number: 3010648-1

Page 1 of 1

Sample Number 2444669-9
Parameter Noise (Leq 24 hrs.)
Location ด้านทิศตะวันออกของ SCG Chemicals Site#3 (GPS 47P 0734053, 1406462)
Measurement Date May 14 - May 15, 2024
Measurement by Anuwet Tema
Sound Level meter Serial No. 734223

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
12:00 PM - 01:00 PM	53.3	58.2	51.4
01:00 PM - 02:00 PM	55.6	61.4	54.0
02:00 PM - 03:00 PM	54.6	62.5	53.3
03:00 PM - 04:00 PM	54.9	60.5	53.7
04:00 PM - 05:00 PM	53.9	61.4	52.5
05:00 PM - 06:00 PM	54.4	60.3	52.8
06:00 PM - 07:00 PM	57.1	67.2	53.7
07:00 PM - 08:00 PM	54.3	63.2	52.5
08:00 PM - 09:00 PM	54.3	63.0	53.3
09:00 PM - 10:00 PM	53.8	60.2	52.6
10:00 PM - 11:00 PM	54.2	62.4	53.3
11:00 PM - 12:00 AM	56.5	63.0	54.9
12:00 AM - 01:00 AM	56.5	65.3	55.4
01:00 AM - 02:00 AM	56.4	60.9	55.4
02:00 AM - 03:00 AM	56.6	60.6	55.5
03:00 AM - 04:00 AM	56.4	62.6	55.2
04:00 AM - 05:00 AM	57.1	64.6	54.6
05:00 AM - 06:00 AM	55.3	68.3	53.6
06:00 AM - 07:00 AM	53.2	64.5	51.6
07:00 AM - 08:00 AM	52.3	59.2	51.0
08:00 AM - 09:00 AM	54.8	59.2	53.7
09:00 AM - 10:00 AM	56.0	63.4	54.4
10:00 AM - 11:00 AM	55.3	62.6	53.6
11:00 AM - 12:00 PM	54.6	68.5	52.7

Leq Average 24 hrs. (dB(A)) 55.2
Lmax (dB(A)) 68.5
L90 (dB(A)) 53.6
Ldn (dB(A)) 62.2
Standard (dB(A)) 70 115

Reference Method : ISO1996-1 and 1996-2

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



Analysis / Test Report

TESTING
No.0042

Client : Thai Polyethylene Co., Ltd.
271, Sukhumvit Road, Tambol Map Ta Phut, Amphur Muang, Rayong Thailand 21150
P/O : PMM-23-11
Project Name : Environmental Monitoring
Project Location : TPE Site 3

Lot ID: 2444669

Date Received : May 29, 2024
Date Reported : Jun 01, 2024
Report Number: 3010649-1

Page 1 of 1

Sample Number 2444669-10
Parameter Noise (Leq 24 hrs.)
Location ด้านทิศตะวันออกของ SCG Chemicals Site#3 (GPS 47P 0734053, 1406462)
Measurement Date May 15 - May 16, 2024
Measurement by Anuwet Tema
Sound Level meter Serial No. 734223

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
12:00 PM - 01:00 PM	55.8	65.2	54.0
01:00 PM - 02:00 PM	56.9	66.0	54.7
02:00 PM - 03:00 PM	55.3	63.4	53.7
03:00 PM - 04:00 PM	54.6	64.2	52.1
04:00 PM - 05:00 PM	52.4	66.5	51.2
05:00 PM - 06:00 PM	53.4	63.1	52.1
06:00 PM - 07:00 PM	57.4	63.9	52.3
07:00 PM - 08:00 PM	52.4	65.2	51.4
08:00 PM - 09:00 PM	51.9	61.1	51.2
09:00 PM - 10:00 PM	52.3	61.4	51.5
10:00 PM - 11:00 PM	53.5	67.0	52.6
11:00 PM - 12:00 AM	54.1	64.2	52.9
12:00 AM - 01:00 AM	53.3	63.5	52.6
01:00 AM - 02:00 AM	53.1	60.7	52.4
02:00 AM - 03:00 AM	53.2	60.5	52.5
03:00 AM - 04:00 AM	54.3	61.5	53.5
04:00 AM - 05:00 AM	56.2	66.4	53.0
05:00 AM - 06:00 AM	57.8	68.3	53.4
06:00 AM - 07:00 AM	53.3	73.2	52.0
07:00 AM - 08:00 AM	52.7	64.9	51.5
08:00 AM - 09:00 AM	53.9	67.4	52.5
09:00 AM - 10:00 AM	54.3	60.0	53.1
10:00 AM - 11:00 AM	53.0	58.6	51.8
11:00 AM - 12:00 PM	53.8	61.6	51.9

Leq Average 24 hrs. (dB(A)) 54.5
Lmax (dB(A)) 73.2
L90 (dB(A)) 52.4
Ldn (dB(A)) 61.0
Standard (dB(A)) 70 115

Reference Method : ISO1996-1 and 1996-2

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

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Pluakdaeng Rayong 21140 Thailand | PHONE +66 0 3304 8555 | FAX +66 0 3304 8556
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



Analysis / Test Report

TESTING
No.0042

Client : Thai Polyethylene Co., Ltd.
271, Sukhumvit Road, Tambol Map Ta Phut, Amphur Muang, Rayong Thailand 21150
P/O : PMM-23-11
Project Name : Environmental Monitoring
Project Location : TPE Site 3

Lot ID: 2444669

Date Received : May 29, 2024
Date Reported : Jun 01, 2024
Report Number: 3010650-1

Page 1 of 1

Sample Number 2444669-11
Parameter Noise (Leq 24 hrs.)
Location ด้านทิศตะวันออกของ SCG Chemicals Site#3 (GPS 47P 0734053, 1406462)
Measurement Date May 16 - May 17, 2024
Measurement by Anuwet Tema
Sound Level meter Serial No. 734223

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
12:00 PM - 01:00 PM	57.1	78.2	54.4
01:00 PM - 02:00 PM	54.7	78.9	53.3
02:00 PM - 03:00 PM	54.0	61.5	53.1
03:00 PM - 04:00 PM	54.1	59.1	53.2
04:00 PM - 05:00 PM	53.4	62.3	52.3
05:00 PM - 06:00 PM	54.0	59.8	52.8
06:00 PM - 07:00 PM	58.8	65.9	53.9
07:00 PM - 08:00 PM	54.8	62.4	54.0
08:00 PM - 09:00 PM	54.3	58.1	53.2
09:00 PM - 10:00 PM	54.7	82.2	53.3
10:00 PM - 11:00 PM	54.4	67.7	53.2
11:00 PM - 12:00 AM	55.3	64.9	53.0
12:00 AM - 01:00 AM	57.1	76.0	53.4
01:00 AM - 02:00 AM	55.2	58.7	53.8
02:00 AM - 03:00 AM	55.5	62.2	53.9
03:00 AM - 04:00 AM	54.2	61.0	53.3
04:00 AM - 05:00 AM	57.0	68.1	52.6
05:00 AM - 06:00 AM	59.5	80.8	53.6
06:00 AM - 07:00 AM	53.8	64.9	52.9
07:00 AM - 08:00 AM	53.4	64.3	52.3
08:00 AM - 09:00 AM	52.1	60.2	50.9
09:00 AM - 10:00 AM	55.5	62.6	50.9
10:00 AM - 11:00 AM	60.1	72.4	52.0
11:00 AM - 12:00 PM	61.9	72.8	52.6

Leq Average 24 hrs. (dB(A)) 56.4
Lmax (dB(A)) 82.2
L90 (dB(A)) 53.2
Ldn (dB(A)) 62.6

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



Analysis / Test Report

TESTING
No.0042

Client : Thai Polyethylene Co., Ltd.
271, Sukhumvit Road, Tambol Map Ta Phut, Amphur Muang, Rayong Thailand 21150
P/O : PMM-23-11
Project Name : Environmental Monitoring
Project Location : TPE Site 3

Lot ID: 2444669

Date Received : May 29, 2024
Date Reported : Jun 01, 2024
Report Number: 3010651-1

Page 1 of 1

Sample Number 2444669-12
Parameter Noise (Leq 24 hrs.)
Location ด้านทิศตะวันออกของ SCG Chemicals Site#3 (GPS 47P 0734053, 1406462)
Measurement Date May 17 - May 18, 2024
Measurement by Anuwet Tema
Sound Level meter Serial No. 734223

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
12:00 PM - 01:00 PM	59.6	72.9	52.5
01:00 PM - 02:00 PM	53.6	61.5	52.5
02:00 PM - 03:00 PM	54.9	62.5	53.6
03:00 PM - 04:00 PM	53.9	61.5	52.9
04:00 PM - 05:00 PM	53.9	63.1	52.9
05:00 PM - 06:00 PM	54.1	65.8	52.7
06:00 PM - 07:00 PM	60.6	68.7	52.3
07:00 PM - 08:00 PM	52.8	63.9	51.7
08:00 PM - 09:00 PM	53.0	65.8	51.7
09:00 PM - 10:00 PM	52.4	67.2	51.3
10:00 PM - 11:00 PM	52.4	61.5	51.6
11:00 PM - 12:00 AM	53.5	62.1	51.6
12:00 AM - 01:00 AM	52.3	60.8	51.4
01:00 AM - 02:00 AM	52.9	59.5	52.1
02:00 AM - 03:00 AM	52.5	61.8	51.6
03:00 AM - 04:00 AM	52.5	60.1	51.6
04:00 AM - 05:00 AM	57.7	71.8	52.3
05:00 AM - 06:00 AM	60.8	71.8	52.5
06:00 AM - 07:00 AM	53.3	71.6	52.1
07:00 AM - 08:00 AM	52.4	63.6	51.2
08:00 AM - 09:00 AM	53.7	79.0	51.2
09:00 AM - 10:00 AM	53.3	60.6	52.2
10:00 AM - 11:00 AM	54.4	63.9	52.8
11:00 AM - 12:00 PM	59.2	67.4	52.6

Leq Average 24 hrs. (dB(A)) 55.6
Lmax (dB(A)) 79.0
L90 (dB(A)) 52.1
Ldn (dB(A)) 61.9
Standard (dB(A)) 70 115

Reference Method : ISO1996-1 and 1996-2

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

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Pluakdaeng Rayong 21140 Thailand | PHONE +66 0 3304 8555 | FAX +66 0 3304 8556
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



Analysis / Test Report

TESTING
No.0042

Client : Thai Polyethylene Co., Ltd.
271, Sukhumvit Road, Tambol Map Ta Phut, Amphur Muang, Rayong Thailand 21150
P/O : PMM-23-11
Project Name : Environmental Monitoring
Project Location : TPE Site 3

Lot ID: 2444669

Date Received : May 29, 2024
Date Reported : Jun 01, 2024
Report Number: 3010652-1

Page 1 of 1

Sample Number 2444669-13
Parameter Noise (Leq 24 hrs.)
Location ด้านทิศตะวันออกของ SCG Chemicals Site#3 (GPS 47P 0734053, 1406462)
Measurement Date May 18 - May 19, 2024
Measurement by Anuwet Tema
Sound Level meter Serial No. 734223

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
12:00 PM - 01:00 PM	53.6	64.1	52.4
01:00 PM - 02:00 PM	54.6	63.3	53.2
02:00 PM - 03:00 PM	54.8	64.7	53.7
03:00 PM - 04:00 PM	54.6	60.6	53.6
04:00 PM - 05:00 PM	53.1	62.8	51.6
05:00 PM - 06:00 PM	52.9	61.1	51.6
06:00 PM - 07:00 PM	60.2	67.5	51.7
07:00 PM - 08:00 PM	52.2	61.3	51.3
08:00 PM - 09:00 PM	52.4	66.2	51.5
09:00 PM - 10:00 PM	52.3	68.3	51.5
10:00 PM - 11:00 PM	52.9	63.0	51.5
11:00 PM - 12:00 AM	52.9	59.7	51.8
12:00 AM - 01:00 AM	56.8	63.6	52.4
01:00 AM - 02:00 AM	54.4	60.9	53.1
02:00 AM - 03:00 AM	56.0	76.0	54.0
03:00 AM - 04:00 AM	53.5	59.4	52.6
04:00 AM - 05:00 AM	58.2	70.2	53.3
05:00 AM - 06:00 AM	61.6	71.1	53.5
06:00 AM - 07:00 AM	54.9	71.5	52.6
07:00 AM - 08:00 AM	54.8	68.7	53.3
08:00 AM - 09:00 AM	55.4	76.3	53.9
09:00 AM - 10:00 AM	56.2	71.7	54.6
10:00 AM - 11:00 AM	59.0	68.9	53.9
11:00 AM - 12:00 PM	59.9	68.2	53.9

Leq Average 24 hrs. (dB(A)) 56.2
Lmax (dB(A)) 76.3
L90 (dB(A)) 52.6
Ldn (dB(A)) 63.0
Standard (dB(A)) 70 115

Reference Method : ISO1996-1 and 1996-2

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



Analysis / Test Report

TESTING
No.0042

Client : Thai Polyethylene Co., Ltd.
271, Sukhumvit Road, Tambol Map Ta Phut, Amphur Muang, Rayong Thailand 21150
P/O : PMM-23-11
Project Name : Environmental Monitoring
Project Location : TPE Site 3

Lot ID: 2444669

Date Received : May 29, 2024
Date Reported : Jun 01, 2024
Report Number: 3010653-1

Page 1 of 1

Sample Number 2444669-14
Parameter Noise (Leq 24 hrs.)
Location ด้านทิศตะวันออกของ SCG Chemicals Site#3 (GPS 47P 0734053, 1406462)
Measurement Date May 19 - May 20, 2024
Measurement by Anuwet Tema
Sound Level meter Serial No. 734223

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
12:00 PM - 01:00 PM	58.8	68.6	53.8
01:00 PM - 02:00 PM	57.2	67.7	53.6
02:00 PM - 03:00 PM	54.8	71.3	53.6
03:00 PM - 04:00 PM	55.2	65.5	53.9
04:00 PM - 05:00 PM	54.2	60.2	52.9
05:00 PM - 06:00 PM	53.9	61.3	52.7
06:00 PM - 07:00 PM	61.5	69.8	53.7
07:00 PM - 08:00 PM	55.3	62.3	54.1
08:00 PM - 09:00 PM	56.3	62.4	55.0
09:00 PM - 10:00 PM	55.7	62.8	54.2
10:00 PM - 11:00 PM	55.4	63.1	54.2
11:00 PM - 12:00 AM	55.8	62.7	54.4
12:00 AM - 01:00 AM	57.8	64.5	54.7
01:00 AM - 02:00 AM	52.9	61.2	51.9
02:00 AM - 03:00 AM	51.9	61.7	51.2
03:00 AM - 04:00 AM	52.2	65.9	51.5
04:00 AM - 05:00 AM	57.1	70.1	52.1
05:00 AM - 06:00 AM	60.0	71.3	53.0
06:00 AM - 07:00 AM	54.4	68.1	53.7
07:00 AM - 08:00 AM	56.7	64.4	55.5
08:00 AM - 09:00 AM	58.3	66.6	52.3
09:00 AM - 10:00 AM	57.4	72.9	55.8
10:00 AM - 11:00 AM	55.6	71.1	54.0
11:00 AM - 12:00 PM	59.8	68.1	52.0

Leq Average 24 hrs. (dB(A)) 56.9
Lmax (dB(A)) 72.9
L90 (dB(A)) 53.7
Ldn (dB(A)) 62.7
Standard (dB(A)) 70 115

Reference Method : ISO1996-1 and 1996-2

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

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Pluakdaeng Rayong 21140 Thailand | PHONE +66 0 3304 8555 | FAX +66 0 3304 8556
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



Analysis / Test Report

TESTING
No.0042

Client : Thai Polyethylene Co., Ltd.
271, Sukhumvit Road, Tambol Map Ta Phut, Amphur Muang, Rayong Thailand 21150
P/O : PMM-23-11
Project Name : Environmental Monitoring
Project Location : TPE Site 3

Lot ID: 2444669

Date Received : May 29, 2024
Date Reported : Jun 01, 2024
Report Number: 3010654-1

Page 1 of 1

Sample Number 2444669-15
Parameter Noise (Leq 24 hrs.)
Location บ้านเมืองใหม่มาบตาพุด หรือใกล้เคียง (GPS 47P 0734651, 1406341)
Measurement Date May 13 - May 14, 2024
Measurement by Anuwet Tema
Sound Level meter Serial No. 296516

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
12:00 PM - 01:00 PM	52.7	83.7	45.8
01:00 PM - 02:00 PM	52.1	67.0	43.9
02:00 PM - 03:00 PM	52.2	79.6	47.9
03:00 PM - 04:00 PM	48.5	63.0	46.0
04:00 PM - 05:00 PM	49.6	83.2	43.8
05:00 PM - 06:00 PM	50.0	63.4	43.8
06:00 PM - 07:00 PM	50.8	64.8	44.8
07:00 PM - 08:00 PM	52.0	61.9	50.2
08:00 PM - 09:00 PM	55.4	63.6	53.5
09:00 PM - 10:00 PM	56.6	63.1	54.1
10:00 PM - 11:00 PM	56.8	64.6	53.0
11:00 PM - 12:00 AM	55.5	63.5	51.3
12:00 AM - 01:00 AM	55.9	63.4	52.1
01:00 AM - 02:00 AM	52.8	62.1	49.3
02:00 AM - 03:00 AM	49.7	59.5	48.0
03:00 AM - 04:00 AM	49.2	57.9	44.7
04:00 AM - 05:00 AM	51.6	58.4	44.3
05:00 AM - 06:00 AM	54.4	64.7	45.6
06:00 AM - 07:00 AM	50.6	72.5	46.6
07:00 AM - 08:00 AM	47.6	70.9	42.8
08:00 AM - 09:00 AM	47.9	76.4	40.2
09:00 AM - 10:00 AM	44.7	70.6	38.5
10:00 AM - 11:00 AM	43.7	63.0	38.5
11:00 AM - 12:00 PM	51.6	62.7	39.8

Leq Average 24 hrs. (dB(A)) 52.5
Lmax (dB(A)) 83.7
L90 (dB(A)) 45.6
Ldn (dB(A)) 59.9
Standard (dB(A)) 70 115

Reference Method : ISO1996-1 and 1996-2

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



Analysis / Test Report

TESTING
No.0042

Client : Thai Polyethylene Co., Ltd.
271, Sukhumvit Road, Tambol Map Ta Phut, Amphur Muang, Rayong Thailand 21150
P/O : PMM-23-11
Project Name : Environmental Monitoring
Project Location : TPE Site 3

Lot ID: 2444669

Date Received : May 29, 2024
Date Reported : Jun 01, 2024
Report Number: 3010655-1

Page 1 of 1

Sample Number 2444669-16
Parameter Noise (Leq 24 hrs.)
Location บ้านเมืองใหม่มาตาพุด หรือใกล้เคียง (GPS 47P 0734651, 1406341)
Measurement Date May 14 - May 15, 2024
Measurement by Anuwet Tema
Sound Level meter Serial No. 296516

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
12:00 PM - 01:00 PM	50.6	64.6	49.6
01:00 PM - 02:00 PM	50.0	60.8	46.9
02:00 PM - 03:00 PM	48.8	60.5	46.9
03:00 PM - 04:00 PM	50.8	62.3	47.3
04:00 PM - 05:00 PM	54.0	66.9	47.3
05:00 PM - 06:00 PM	48.3	62.4	45.6
06:00 PM - 07:00 PM	53.1	73.7	46.4
07:00 PM - 08:00 PM	52.4	61.7	49.0
08:00 PM - 09:00 PM	49.6	62.1	47.0
09:00 PM - 10:00 PM	47.9	63.4	46.2
10:00 PM - 11:00 PM	47.9	58.1	46.8
11:00 PM - 12:00 AM	49.9	60.2	48.3
12:00 AM - 01:00 AM	50.1	59.9	48.9
01:00 AM - 02:00 AM	49.6	54.5	48.6
02:00 AM - 03:00 AM	49.8	54.1	48.8
03:00 AM - 04:00 AM	50.9	56.5	49.5
04:00 AM - 05:00 AM	51.7	57.7	50.3
05:00 AM - 06:00 AM	56.5	64.6	51.0
06:00 AM - 07:00 AM	51.1	64.4	48.6
07:00 AM - 08:00 AM	47.9	62.2	43.8
08:00 AM - 09:00 AM	46.7	64.8	42.3
09:00 AM - 10:00 AM	52.1	77.5	46.4
10:00 AM - 11:00 AM	51.7	63.6	47.1
11:00 AM - 12:00 PM	51.6	61.5	45.4

Leq Average 24 hrs. (dB(A)) 51.1
Lmax (dB(A)) 77.5
L90 (dB(A)) 47.1
Ldn (dB(A)) 57.9
Standard (dB(A)) 70 115

Reference Method : ISO1996-1 and 1996-2

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



Analysis / Test Report

TESTING
No.0042

Client : Thai Polyethylene Co., Ltd.
271, Sukhumvit Road, Tambol Map Ta Phut, Amphur Muang, Rayong Thailand 21150
P/O : PMM-23-11
Project Name : Environmental Monitoring
Project Location : TPE Site 3

Lot ID: 2444669

Date Received : May 29, 2024
Date Reported : Jun 01, 2024
Report Number: 3010656-1

Page 1 of 1

Sample Number 2444669-17
Parameter Noise (Leq 24 hrs.)
Location บ้านเมืองใหม่มาบตาพุด หรือใกล้เคียง (GPS 47P 0734651, 1406341)
Measurement Date May 15 - May 16, 2024
Measurement by Anuwet Tema
Sound Level meter Serial No. 296516

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
12:00 PM - 01:00 PM	66.4	91.6	47.4
01:00 PM - 02:00 PM	50.2	66.0	47.7
02:00 PM - 03:00 PM	49.4	68.1	47.5
03:00 PM - 04:00 PM	48.8	62.9	46.8
04:00 PM - 05:00 PM	49.8	73.5	44.3
05:00 PM - 06:00 PM	47.1	70.6	41.9
06:00 PM - 07:00 PM	55.0	63.8	46.1
07:00 PM - 08:00 PM	49.1	65.6	46.5
08:00 PM - 09:00 PM	46.8	60.2	44.8
09:00 PM - 10:00 PM	47.3	57.8	45.1
10:00 PM - 11:00 PM	47.7	75.9	44.6
11:00 PM - 12:00 AM	46.9	59.8	45.3
12:00 AM - 01:00 AM	46.4	61.2	45.0
01:00 AM - 02:00 AM	46.8	57.2	45.6
02:00 AM - 03:00 AM	44.9	58.9	43.6
03:00 AM - 04:00 AM	47.6	57.7	44.0
04:00 AM - 05:00 AM	49.3	59.4	48.1
05:00 AM - 06:00 AM	52.7	65.6	48.3
06:00 AM - 07:00 AM	49.9	73.9	46.2
07:00 AM - 08:00 AM	48.0	74.5	44.2
08:00 AM - 09:00 AM	46.9	69.7	41.6
09:00 AM - 10:00 AM	50.4	66.9	46.0
10:00 AM - 11:00 AM	48.4	69.8	45.7
11:00 AM - 12:00 PM	46.9	64.7	44.5

Leq Average 24 hrs. (dB(A)) 54.2
Lmax (dB(A)) 91.6
L90 (dB(A)) 45.3
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 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



Analysis / Test Report

TESTING
No.0042

Client : Thai Polyethylene Co., Ltd.
271, Sukhumvit Road, Tambol Map Ta Phut, Amphur Muang, Rayong Thailand 21150
P/O : PMM-23-11
Project Name : Environmental Monitoring
Project Location : TPE Site 3

Lot ID: 2444669

Date Received : May 29, 2024
Date Reported : Jun 01, 2024
Report Number: 3010657-1

Page 1 of 1

Sample Number 2444669-18
Parameter Noise (Leq 24 hrs.)
Location บ้านเมืองใหม่มาบตาพุด หรือใกล้เคียง (GPS 47P 0734651, 1406341)
Measurement Date May 16 - May 17, 2024
Measurement by Anuwet Tema
Sound Level meter Serial No. 296516

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
12:00 PM - 01:00 PM	59.8	67.1	49.1
01:00 PM - 02:00 PM	59.9	78.2	48.7
02:00 PM - 03:00 PM	49.6	67.3	46.4
03:00 PM - 04:00 PM	48.8	59.9	46.9
04:00 PM - 05:00 PM	49.2	61.8	46.8
05:00 PM - 06:00 PM	47.3	64.5	44.8
06:00 PM - 07:00 PM	52.4	67.6	48.0
07:00 PM - 08:00 PM	51.8	63.9	48.8
08:00 PM - 09:00 PM	52.3	57.9	50.0
09:00 PM - 10:00 PM	50.8	57.6	48.0
10:00 PM - 11:00 PM	51.0	62.8	48.6
11:00 PM - 12:00 AM	52.6	61.4	48.8
12:00 AM - 01:00 AM	60.0	72.7	50.5
01:00 AM - 02:00 AM	59.5	70.5	56.9
02:00 AM - 03:00 AM	57.1	65.0	51.9
03:00 AM - 04:00 AM	51.7	76.0	49.4
04:00 AM - 05:00 AM	52.4	57.4	50.1
05:00 AM - 06:00 AM	54.1	66.9	47.9
06:00 AM - 07:00 AM	50.4	71.1	47.5
07:00 AM - 08:00 AM	49.9	69.9	46.0
08:00 AM - 09:00 AM	49.2	73.4	44.4
09:00 AM - 10:00 AM	46.1	73.4	41.8
10:00 AM - 11:00 AM	48.3	62.8	43.1
11:00 AM - 12:00 PM	49.1	65.8	45.3

Leq Average 24 hrs. (dB(A)) 54.4
Lmax (dB(A)) 78.2
L90 (dB(A)) 48.0
Ldn (dB(A)) 61.9
Standard (dB(A)) 70 115

Reference Method : ISO1996-1 and 1996-2

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



Analysis / Test Report

TESTING
No.0042

Client : Thai Polyethylene Co., Ltd.
271, Sukhumvit Road, Tambol Map Ta Phut, Amphur Muang, Rayong Thailand 21150
P/O : PMM-23-11
Project Name : Environmental Monitoring
Project Location : TPE Site 3

Lot ID: 2444669

Date Received : May 29, 2024
Date Reported : Jun 01, 2024
Report Number: 3010658-1

Page 1 of 1

Sample Number 2444669-19
Parameter Noise (Leq 24 hrs.)
Location บ้านเมืองใหม่มาบตาพุด หรือใกล้เคียง (GPS 47P 0734651, 1406341)
Measurement Date May 17 - May 18, 2024
Measurement by Anuwet Tema
Sound Level meter Serial No. 296516

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
12:00 PM - 01:00 PM	48.1	60.0	46.3
01:00 PM - 02:00 PM	47.5	60.9	45.7
02:00 PM - 03:00 PM	48.6	64.3	46.3
03:00 PM - 04:00 PM	49.6	61.8	46.9
04:00 PM - 05:00 PM	50.3	62.3	43.0
05:00 PM - 06:00 PM	49.1	65.8	46.3
06:00 PM - 07:00 PM	54.7	69.6	46.5
07:00 PM - 08:00 PM	49.8	59.9	48.2
08:00 PM - 09:00 PM	48.7	65.4	47.1
09:00 PM - 10:00 PM	49.2	68.1	47.1
10:00 PM - 11:00 PM	48.0	61.5	46.4
11:00 PM - 12:00 AM	49.4	61.6	46.7
12:00 AM - 01:00 AM	52.1	61.0	46.9
01:00 AM - 02:00 AM	51.8	62.0	45.2
02:00 AM - 03:00 AM	47.7	60.1	45.2
03:00 AM - 04:00 AM	44.7	57.6	41.5
04:00 AM - 05:00 AM	44.9	58.2	42.1
05:00 AM - 06:00 AM	54.8	66.7	45.3
06:00 AM - 07:00 AM	53.5	80.7	46.2
07:00 AM - 08:00 AM	49.4	72.0	45.3
08:00 AM - 09:00 AM	51.1	77.8	44.0
09:00 AM - 10:00 AM	51.5	82.5	44.6
10:00 AM - 11:00 AM	48.4	65.6	46.1
11:00 AM - 12:00 PM	49.9	67.7	47.3

Leq Average 24 hrs. (dB(A)) 50.4
Lmax (dB(A)) 82.5
L90 (dB(A)) 46.2
Ldn (dB(A)) 57.2
Standard (dB(A)) 70 115

Reference Method : ISO1996-1 and 1996-2

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



Analysis / Test Report

TESTING
No.0042

Client : Thai Polyethylene Co., Ltd.
271, Sukhumvit Road, Tambol Map Ta Phut, Amphur Muang, Rayong Thailand 21150
P/O : PMM-23-11
Project Name : Environmental Monitoring
Project Location : TPE Site 3

Lot ID: 2444669

Date Received : May 29, 2024
Date Reported : Jun 01, 2024
Report Number: 3010659-1

Page 1 of 1

Sample Number 2444669-20
Parameter Noise (Leq 24 hrs.)
Location บ้านเมืองใหม่มาบตาพุด หรือใกล้เคียง (GPS 47P 0734651, 1406341)
Measurement Date May 18 - May 19, 2024
Measurement by Anuwet Tema
Sound Level meter Serial No. 296516

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
12:00 PM - 01:00 PM	47.8	66.4	45.7
01:00 PM - 02:00 PM	53.7	66.5	46.7
02:00 PM - 03:00 PM	51.9	79.6	46.8
03:00 PM - 04:00 PM	49.1	65.5	46.8
04:00 PM - 05:00 PM	48.9	75.1	46.1
05:00 PM - 06:00 PM	47.6	70.4	44.3
06:00 PM - 07:00 PM	52.7	64.7	45.4
07:00 PM - 08:00 PM	50.5	62.9	47.3
08:00 PM - 09:00 PM	48.1	63.9	46.2
09:00 PM - 10:00 PM	48.0	55.3	46.5
10:00 PM - 11:00 PM	48.6	61.9	46.8
11:00 PM - 12:00 AM	49.1	61.5	46.6
12:00 AM - 01:00 AM	48.9	55.3	47.2
01:00 AM - 02:00 AM	48.5	57.5	47.0
02:00 AM - 03:00 AM	49.0	62.8	47.3
03:00 AM - 04:00 AM	49.1	70.7	47.3
04:00 AM - 05:00 AM	49.0	58.1	47.0
05:00 AM - 06:00 AM	53.5	66.5	48.2
06:00 AM - 07:00 AM	52.2	76.9	47.4
07:00 AM - 08:00 AM	51.6	70.2	47.9
08:00 AM - 09:00 AM	49.5	73.6	46.4
09:00 AM - 10:00 AM	49.7	64.2	47.4
10:00 AM - 11:00 AM	49.9	72.9	47.3
11:00 AM - 12:00 PM	48.5	59.8	46.9

Leq Average 24 hrs. (dB(A)) 50.2
Lmax (dB(A)) 79.6
L90 (dB(A)) 46.8
Ldn (dB(A)) 56.6
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

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Pluakdaeng Rayong 21140 Thailand | PHONE +66 0 3304 8555 | FAX +66 0 3304 8556
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



Analysis / Test Report

TESTING
No.0042

Client : Thai Polyethylene Co., Ltd.
271, Sukhumvit Road, Tambol Map Ta Phut, Amphur Muang, Rayong Thailand 21150
P/O : PMM-23-11
Project Name : Environmental Monitoring
Project Location : TPE Site 3

Lot ID: 2444669

Date Received : May 29, 2024
Date Reported : Jun 01, 2024
Report Number: 3010660-1

Page 1 of 1

Sample Number 2444669-21
Parameter Noise (Leq 24 hrs.)
Location บ้านเมืองใหม่มาบตาพุด หรือใกล้เคียง (GPS 47P 0734651, 1406341)
Measurement Date May 19 - May 20, 2024
Measurement by Anuwet Tema
Sound Level meter Serial No. 296516

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
12:00 PM - 01:00 PM	49.0	69.7	47.1
01:00 PM - 02:00 PM	48.6	62.5	47.0
02:00 PM - 03:00 PM	48.2	58.0	46.3
03:00 PM - 04:00 PM	49.3	67.7	47.2
04:00 PM - 05:00 PM	50.2	75.8	48.0
05:00 PM - 06:00 PM	48.9	62.0	46.9
06:00 PM - 07:00 PM	52.7	62.1	47.1
07:00 PM - 08:00 PM	50.0	62.0	48.3
08:00 PM - 09:00 PM	50.0	62.2	48.4
09:00 PM - 10:00 PM	49.9	62.4	48.1
10:00 PM - 11:00 PM	49.2	63.4	47.3
11:00 PM - 12:00 AM	48.7	59.3	47.2
12:00 AM - 01:00 AM	48.6	54.7	47.3
01:00 AM - 02:00 AM	48.4	56.4	46.1
02:00 AM - 03:00 AM	44.8	57.5	42.3
03:00 AM - 04:00 AM	49.7	61.7	48.0
04:00 AM - 05:00 AM	49.5	62.0	47.7
05:00 AM - 06:00 AM	48.8	59.4	47.3
06:00 AM - 07:00 AM	48.9	58.7	47.0
07:00 AM - 08:00 AM	50.9	76.5	48.7
08:00 AM - 09:00 AM	50.1	62.5	46.9
09:00 AM - 10:00 AM	51.7	70.3	48.0
10:00 AM - 11:00 AM	54.0	63.4	48.4
11:00 AM - 12:00 PM	51.8	70.4	48.1

Leq Average 24 hrs. (dB(A)) 50.0
Lmax (dB(A)) 76.5
L90 (dB(A)) 47.3
Ldn (dB(A)) 55.4
Standard (dB(A)) 70

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

ระดับเสียงเฉลี่ยตลอดเวลาการทำงาน



Analysis / Test Report

Client : Thai Polyethylene Co., Ltd.

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

P/O :

Project Name : Environmental Monitoring

Project Location : HDPE3

Lot ID: 2411699

Date Received : Feb 06, 2024

Date Reported : Feb 09, 2024

Report Number: 2904942-1

Page 1 of 1

Sample Number 2411699-1
Parameter Noise (Leq 12 hrs.)
Location หน่วยกั้น/Pump
Measurement Date Feb 05, 2024
Measurement by Norranon Tathongkham

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
08:01 AM - 09:01 AM	83.7	88.3	80.6
09:01 AM - 10:01 AM	84.3	85.0	84.2
10:01 AM - 11:01 AM	84.3	84.9	84.2
11:01 AM - 12:01 PM	84.3	84.8	84.2
12:01 PM - 01:01 PM	84.3	85.3	84.2
01:01 PM - 02:01 PM	84.3	84.8	84.2
02:01 PM - 03:01 PM	84.2	84.8	84.1
03:01 PM - 04:01 PM	84.2	84.8	84.1
04:01 PM - 05:01 PM	84.3	84.9	84.3
05:01 PM - 06:01 PM	84.4	85.1	84.3
06:01 PM - 07:01 PM	84.4	85.0	84.3
07:01 PM - 08:01 PM	84.1	84.7	84.0
Leq Average 12 hrs. (dB(A))	84.2		
Lmax (dB(A))		88.3	
Standard (dB(A))	87	140	
Reference Method : ISO1996-1 and 1996-2			
Standard : ประกาศกระทรวงอุตสาหกรรม เรื่อง มาตรการคุ้มครองความปลอดภัย ในการประกอบกิจการโรงงานเกี่ยวกับสภาวะแวดล้อมในการทำงาน พ.ศ.๒๕๕๖			

Technical Management

Thanita K.

Thanita Kulsuriwong
Scientist (4)

Approved by

Supot S.

Supot Salamteh
Section Head

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Pluakdaeng Rayong 21140 Thailand | PHONE +66 0 3304 8555 | FAX +66 0 3304 8556
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



Analysis / Test Report

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

P/O :

Project Name : Environmental Monitoring

Project Location : HDPE3

Lot ID: 2411699

Date Received : Feb 06, 2024

Date Reported : Feb 09, 2024

Report Number: 2904943-1

Page 1 of 1

Sample Number 2411699-2
Parameter Noise (Leq 12 hrs.)
Location Pelletizer
Measurement Date Feb 05, 2024
Measurement by Norranon Tathongkham

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
08:55 AM - 09:55 AM	84.2	100.3	83.1
09:55 AM - 10:55 AM	84.0	87.9	83.4
10:55 AM - 11:55 AM	83.9	87.9	83.3
11:55 AM - 12:55 PM	83.9	87.8	83.3
12:55 PM - 01:55 PM	84.2	88.3	83.4
01:55 PM - 02:55 PM	84.8	88.3	84.2
02:55 PM - 03:55 PM	84.6	88.2	83.9
03:55 PM - 04:55 PM	83.8	88.1	82.9
04:55 PM - 05:55 PM	83.6	87.8	83.0
05:55 PM - 06:55 PM	83.7	87.7	83.0
06:55 PM - 07:55 PM	84.1	87.6	83.5
07:55 PM - 08:55 PM	83.6	87.5	83.0
Leq Average 12 hrs. (dB(A))	84.0		
Lmax (dB(A))		100.3	
Standard (dB(A))	87	140	
Reference Method : ISO1996-1 and 1996-2			
Standard : ประกาศกระทรวงอุตสาหกรรม เรื่อง มาตรฐานการคุ้มครองความปลอดภัย ในการประกอบกิจการโรงงานเกี่ยวกับสภาวะแวดล้อมในการทำงาน พ.ศ.๒๕๕๖			

Technical Management

Thanita K.

Thanita Kulsuriwong
Scientist (4)

Approved by

Supot S.

Supot Salamteh
Section Head

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Pluakdaeng Rayong 21140 Thailand | PHONE +66 0 3304 8555 | FAX +66 0 3304 8556
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



Analysis / Test Report

Client : Thai Polyethylene Co., Ltd.

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

P/O :

Project Name : Environmental Monitoring

Project Location : HDPE3

Lot ID: 2411699

Date Received : Feb 06, 2024

Date Reported : Feb 09, 2024

Report Number: 2904944-1

Page 1 of 1

Sample Number 2411699-3
Parameter Noise (Leq 12 hrs.)
Location Compressor
Measurement Date Feb 05, 2024
Measurement by Norranon Tathongkham

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
09:08 AM - 10:08 AM	79.5	85.4	77.9
10:08 AM - 11:08 AM	81.3	82.8	80.9
11:08 AM - 12:08 PM	79.5	81.7	77.7
12:08 PM - 01:08 PM	78.2	81.4	77.7
01:08 PM - 02:08 PM	78.0	79.3	77.8
02:08 PM - 03:08 PM	78.4	80.6	77.9
03:08 PM - 04:08 PM	79.9	81.1	79.5
04:08 PM - 05:08 PM	79.4	82.1	77.9
05:08 PM - 06:08 PM	78.8	80.6	78.1
06:08 PM - 07:08 PM	79.2	81.2	78.3
07:08 PM - 08:08 PM	79.0	81.2	78.5
08:08 PM - 09:08 PM	78.9	82.1	78.4
Leq Average 12 hrs. (dB(A))	79.3		
Lmax (dB(A))		85.4	
Standard (dB(A))	87	140	
Reference Method : ISO1996-1 and 1996-2			
Standard : ประกาศกระทรวงอุตสาหกรรม เรื่อง มาตรการคุ้มครองความปลอดภัย ในการประกอบกิจการโรงงานเกี่ยวกับสภาวะแวดล้อมในการทำงาน พ.ศ.๒๕๕๖			

Technical Management

Thanita K.

Thanita Kulsuriwong
Scientist (4)

Approved by

Supot S.

Supot Salamteh
Section Head

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Pluakdaeng Rayong 21140 Thailand | PHONE +66 0 3304 8555 | FAX +66 0 3304 8556
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



Analysis / Test Report

Client : Thai Polyethylene Co., Ltd.

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

P/O :

Project Name : Environmental Monitoring

Project Location : HDPE3

Lot ID: 2411699

Date Received : Feb 06, 2024

Date Reported : Feb 09, 2024

Report Number: 2904945-1

Page 1 of 1

Sample Number 2411699-4
Parameter Noise (Leq 12 hrs.)
Location Reactor
Measurement Date Feb 05, 2024
Measurement by Norranon Tathongkham

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
08:38 AM - 09:38 AM	82.7	86.8	81.8
09:38 AM - 10:38 AM	82.5	86.2	81.7
10:38 AM - 11:38 AM	82.3	85.7	81.5
11:38 AM - 12:38 PM	82.0	86.0	81.1
12:38 PM - 01:38 PM	82.1	86.5	81.2
01:38 PM - 02:38 PM	82.5	86.3	81.6
02:38 PM - 03:38 PM	82.9	86.4	81.8
03:38 PM - 04:38 PM	83.0	86.9	82.1
04:38 PM - 05:38 PM	83.1	86.6	82.2
05:38 PM - 06:38 PM	83.3	88.2	82.4
06:38 PM - 07:38 PM	83.7	87.6	82.8
07:38 PM - 08:38 PM	82.6	86.0	81.8
Leq Average 12 hrs. (dB(A))	82.8		
Lmax (dB(A))		88.2	
Standard (dB(A))	87	140	
Reference Method : ISO1996-1 and 1996-2			
Standard : ประกาศกระทรวงอุตสาหกรรม เรื่อง มาตรการคุ้มครองความปลอดภัย ในการประกอบกิจการโรงงานเกี่ยวกับสภาวะแวดล้อมในการทำงาน พ.ศ.๒๕๔๖			

Technical Management

Thanita K.

Thanita Kulsuriwong
Scientist (4)

Approved by

Supot S.

Supot Salamteh
Section Head

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Pluakdaeng Rayong 21140 Thailand | PHONE +66 0 3304 8555 | FAX +66 0 3304 8556
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



Analysis / Test Report

Client : Thai Polyethylene Co., Ltd.

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

P/O :

Project Name : Environmental Monitoring

Project Location : HDPE3

Lot ID: 2411699

Date Received : Feb 06, 2024

Date Reported : Feb 09, 2024

Report Number: 2904946-1

Page 1 of 1

Sample Number 2411699-5
Parameter Noise (Leq 12 hrs.)
Location Spray Cooler
Measurement Date Feb 05, 2024
Measurement by Norranon Tathongkham

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
09:10 AM - 10:10 AM	79.3	82.8	79.1
10:10 AM - 11:10 AM	79.3	80.7	79.2
11:10 AM - 12:10 PM	79.1	79.7	78.9
12:10 PM - 01:10 PM	79.0	79.9	78.8
01:10 PM - 02:10 PM	79.0	79.7	78.8
02:10 PM - 03:10 PM	79.0	80.0	78.8
03:10 PM - 04:10 PM	79.1	79.8	78.9
04:10 PM - 05:10 PM	79.2	80.0	79.0
05:10 PM - 06:10 PM	79.4	80.2	79.2
06:10 PM - 07:10 PM	79.6	80.3	79.4
07:10 PM - 08:10 PM	79.5	80.4	79.3
08:10 PM - 09:10 PM	79.7	80.4	79.5
Leq Average 12 hrs. (dB(A))	79.3		
Lmax (dB(A))		82.8	
Standard (dB(A))	87	140	
Reference Method : ISO1996-1 and 1996-2			
Standard : ประกาศกระทรวงอุตสาหกรรม เรื่อง มาตรการคุ้มครองความปลอดภัย ในการประกอบกิจการโรงงานเกี่ยวกับสภาวะแวดล้อมในการทำงาน พ.ศ.๒๕๔๖			

Technical Management

Thanita K.

Thanita Kulsuriwong
Scientist (4)

Approved by

Supot S.

Supot Salamteh
Section Head

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Pluakdaeng Rayong 21140 Thailand | PHONE +66 0 3304 8555 | FAX +66 0 3304 8556
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



Analysis / Test Report

Client : Thai Polyethylene Co., Ltd.

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

P/O : PMM-23-11

Project Name : Environmental Monitoring

Project Location : HDPE3

Lot ID: 2444676

Date Received : May 21, 2024

Date Reported : May 27, 2024

Report Number: 3005347-1

Page 1 of 1

Sample Number 2444676-1
Parameter Noise (Leq 12 hrs.)
Location หน่วยกลั่น/Pump
Measurement Date May 20, 2024
Measurement by Prasanmit Kueanpet

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
08:00 AM - 09:00 AM	81.5	82.5	81.3
09:00 AM - 10:00 AM	81.5	82.2	81.4
10:00 AM - 11:00 AM	81.8	83.3	81.4
11:00 AM - 12:00 PM	81.9	83.2	81.6
12:00 PM - 01:00 PM	82.1	83.0	81.7
01:00 PM - 02:00 PM	82.3	83.3	82.1
02:00 PM - 03:00 PM	82.0	82.8	81.9
03:00 PM - 04:00 PM	81.9	82.4	81.8
04:00 PM - 05:00 PM	82.0	82.5	81.9
05:00 PM - 06:00 PM	82.2	82.7	82.1
06:00 PM - 07:00 PM	81.7	82.4	81.6
07:00 PM - 08:00 PM	82.2	83.0	82.1

Leq Average 12 hrs. (dB(A))

81.9

Lmax (dB(A))

83.3

Standard (dB(A))

87

140

Reference Method : ISO1996-1 and 1996-2

Standard : ประกาศกระทรวงอุตสาหกรรม เรื่อง มาตรการคุ้มครองความปลอดภัย

ในการประกอบกิจการโรงงานเกี่ยวกับสภาวะแวดล้อมในการทำงาน พ.ศ.๒๕๔๖

Technical Management

Thanita K.

Thanita Kulsuriwong
Scientist (4)

Approved by

Supot S.

Supot Salamteh
Section Head

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Pluakdaeng Rayong 21140 Thailand | PHONE +66 0 3304 8555 | FAX +66 0 3304 8556
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



Analysis / Test Report

Client : Thai Polyethylene Co., Ltd.
271, Sukhumvit Road, Tambol Map Ta Phut, Amphur Muang, Rayong Thailand 21150
P/O : PMM-23-11
Project Name : Environmental Monitoring
Project Location : HDPE3

Lot ID: 2444676

Date Received : May 21, 2024
Date Reported : May 27, 2024
Report Number: 3005348-1

Page 1 of 1

Sample Number 2444676-2
Parameter Noise (Leq 12 hrs.)
Location Pelletizer
Measurement Date May 20, 2024
Measurement by Prasanmit Kueanpet

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
08:10 AM - 09:10 AM	83.5	87.5	82.5
09:10 AM - 10:10 AM	84.4	88.4	82.4
10:10 AM - 11:10 AM	83.3	88.4	82.2
11:10 AM - 12:10 PM	82.7	86.6	82.0
12:10 PM - 01:10 PM	82.3	88.5	81.3
01:10 PM - 02:10 PM	83.8	91.2	81.6
02:10 PM - 03:10 PM	83.7	89.7	81.8
03:10 PM - 04:10 PM	82.8	87.3	82.0
04:10 PM - 05:10 PM	82.6	87.0	81.9
05:10 PM - 06:10 PM	82.5	88.7	81.5
06:10 PM - 07:10 PM	82.7	87.1	82.0
07:10 PM - 08:10 PM	83.4	89.4	81.5
Leq Average 12 hrs. (dB(A))	83.2		
Lmax (dB(A))		91.2	
Standard (dB(A))	87	140	
Reference Method : ISO1996-1 and 1996-2			
Standard : ประกาศกระทรวงอุตสาหกรรม เรื่อง มาตรการคุ้มครองความปลอดภัย ในการประกอบกิจการโรงงานเกี่ยวกับสภาวะแวดล้อมในการทำงาน พ.ศ.๒๕๕๖			

Technical Management

Thanita K.

Thanita Kulsuriwong
Scientist (4)

Approved by

Supot S.

Supot Salamteh
Section Head

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Pluakdaeng Rayong 21140 Thailand | PHONE +66 0 3304 8555 | FAX +66 0 3304 8556
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



Analysis / Test Report

Client : Thai Polyethylene Co., Ltd.
271, Sukhumvit Road, Tambol Map Ta Phut, Amphur Muang, Rayong Thailand 21150
P/O : PMM-23-11
Project Name : Environmental Monitoring
Project Location : HDPE3

Lot ID: 2444676

Date Received : May 21, 2024
Date Reported : May 27, 2024
Report Number: 3005349-1

Page 1 of 1

Sample Number 2444676-3
Parameter Noise (Leq 12 hrs.)
Location Compressor
Measurement Date May 20, 2024
Measurement by Prasanmit Kueanpet

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
08:13 AM - 09:13 AM	81.0	87.3	80.6
09:13 AM - 10:13 AM	81.3	87.6	80.9
10:13 AM - 11:13 AM	81.5	82.3	81.1
11:13 AM - 12:13 PM	80.0	84.0	79.5
12:13 PM - 01:13 PM	79.8	81.0	79.2
01:13 PM - 02:13 PM	79.7	81.9	78.9
02:13 PM - 03:13 PM	80.6	81.8	80.0
03:13 PM - 04:13 PM	80.4	82.1	79.9
04:13 PM - 05:13 PM	79.6	80.4	79.2
05:13 PM - 06:13 PM	79.8	80.6	79.4
06:13 PM - 07:13 PM	78.8	79.6	78.4
07:13 PM - 08:13 PM	79.1	79.9	78.7
Leq Average 12 hrs. (dB(A))	80.2		
Lmax (dB(A))		87.6	
Standard (dB(A))	87	140	
Reference Method : ISO1996-1 and 1996-2			
Standard : ประกาศกระทรวงอุตสาหกรรม เรื่อง มาตรการคุ้มครองความปลอดภัย ในการประกอบกิจการโรงงานเกี่ยวกับสภาวะแวดล้อมในการทำงาน พ.ศ.๒๕๕๖			

Technical Management

Thanita K.

Thanita Kulsuriwong
Scientist (4)

Approved by

Supot S.

Supot Salamteh
Section Head

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Pluakdaeng Rayong 21140 Thailand | PHONE +66 0 3304 8555 | FAX +66 0 3304 8556
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



Analysis / Test Report

Client : Thai Polyethylene Co., Ltd.
271, Sukhumvit Road, Tambol Map Ta Phut, Amphur Muang, Rayong Thailand 21150
P/O : PMM-23-11
Project Name : Environmental Monitoring
Project Location : HDPE3

Lot ID: 2444676

Date Received : May 21, 2024
Date Reported : May 27, 2024
Report Number: 3005350-1

Page 1 of 1

Sample Number 2444676-4
Parameter Noise (Leq 12 hrs.)
Location Reactor
Measurement Date May 20, 2024
Measurement by Prasanmit Kueanpet

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
08:05 AM - 09:05 AM	77.2	84.3	77.0
09:05 AM - 10:05 AM	77.2	78.1	77.0
10:05 AM - 11:05 AM	77.1	78.0	77.0
11:05 AM - 12:05 PM	77.2	78.1	76.9
12:05 PM - 01:05 PM	77.4	78.3	77.1
01:05 PM - 02:05 PM	77.7	78.5	77.5
02:05 PM - 03:05 PM	77.7	78.4	77.5
03:05 PM - 04:05 PM	77.4	78.4	77.2
04:05 PM - 05:05 PM	77.3	77.9	77.1
05:05 PM - 06:05 PM	77.2	77.9	77.0
06:05 PM - 07:05 PM	77.5	78.2	77.3
07:05 PM - 08:05 PM	77.2	78.2	77.0

Leq Average 12 hrs. (dB(A)) 77.3
Lmax (dB(A)) 84.3
Standard (dB(A)) 87
Reference Method : ISO1996-1 and 1996-2
Standard : ประกาศกระทรวงอุตสาหกรรม เรื่อง มาตรการคุ้มครองความปลอดภัย
ในการประกอบกิจการโรงงานเกี่ยวกับสภาวะแวดล้อมในการทำงาน พ.ศ.๒๕๕๖

Technical Management

Thanita K.

Thanita Kulsuriwong
Scientist (4)

Approved by

Supot S.

Supot Salamteh
Section Head

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Pluakdaeng Rayong 21140 Thailand | PHONE +66 0 3304 8555 | FAX +66 0 3304 8556
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



Analysis / Test Report

Client : Thai Polyethylene Co., Ltd.
271, Sukhumvit Road, Tambol Map Ta Phut, Amphur Muang, Rayong Thailand 21150
P/O : PMM-23-11
Project Name : Environmental Monitoring
Project Location : HDPE3

Lot ID: 2444676

Date Received : May 21, 2024
Date Reported : May 27, 2024
Report Number: 3005351-1

Page 1 of 1

Sample Number 2444676-5
Parameter Noise (Leq 12 hrs.)
Location Spray Cooler
Measurement Date May 20, 2024
Measurement by Prasanmit Kueanpet

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
08:25 AM - 09:25 AM	79.7	80.6	79.5
09:25 AM - 10:25 AM	79.8	81.1	79.5
10:25 AM - 11:25 AM	79.9	80.7	79.6
11:25 AM - 12:25 PM	79.9	80.9	79.6
12:25 PM - 01:25 PM	80.1	80.9	79.9
01:25 PM - 02:25 PM	79.3	80.6	78.9
02:25 PM - 03:25 PM	79.2	80.1	79.0
03:25 PM - 04:25 PM	79.4	80.3	79.1
04:25 PM - 05:25 PM	79.8	80.9	79.5
05:25 PM - 06:25 PM	80.1	80.9	79.8
06:25 PM - 07:25 PM	80.0	81.1	79.7
07:25 PM - 08:25 PM	79.9	80.8	79.6
Leq Average 12 hrs. (dB(A))	79.8		
Lmax (dB(A))		81.1	
Standard (dB(A))	87	140	
Reference Method : ISO1996-1 and 1996-2			
Standard : ประกาศกระทรวงอุตสาหกรรม เรื่อง มาตรการคุ้มครองความปลอดภัย ในการประกอบกิจการโรงงานเกี่ยวกับสภาวะแวดล้อมในการทำงาน พ.ศ.๒๕๕๖			

Technical Management

Thanita K.

Thanita Kulsuriwong
Scientist (4)

Approved by

Supot S.

Supot Salamteh
Section Head

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Pluakdaeng Rayong 21140 Thailand | PHONE +66 0 3304 8555 | FAX +66 0 3304 8556
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER

ระดับเสียงที่ลูกจ้างได้รับเฉลี่ยตลอดเวลาการทำงานในแต่ละวัน
(Time Weighted Average-TWA)



Analysis / Test Report

Client : Thai Polyethylene Co., Ltd.

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

P/O :

Project Name : Environmental Monitoring

Project Location : HDPE3

Lot ID: 2411708

Date Received : Feb 06, 2024

Date Reported : Feb 09, 2024

Report Number : 2898080-1 Rev. No.1

Page 2 of 3

Sample Number 2411708-2
Sampled Date Feb 05, 2024
Sample Description Noise Dose
Location HDPE 3 Section 5700
Personal Sampling คุณนิภัทร์ กันทะเสน
Date Analysis Commenced Feb 07, 2024

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	%	-	-	41.7	No Standard	MOL, Department Labour Protection and Welfare (B.E.2561)	MOL	Rayong
Noise Dose (8 hrs.)	08:00 AM - 08:00 PM	%	-	-	39.8	No Standard	MOL, Department Labour Protection and Welfare (B.E.2561)	MOL	Rayong
TWA (12 hrs.) (Calculated from Lavg)	08:00 AM - 08:00 PM	dB(A)	-	-	79.2	83*	MOL, Department Labour Protection and Welfare (B.E.2561)	MOL	Rayong
TWA (8 hrs.)	08:00 AM - 08:00 PM	dB(A)	-	-	81.0	85	MOL, Department Labour Protection and Welfare (B.E.2561)	MOL	Rayong

Guideline :

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

Sampled By : Norranon Tathongkham

Remark :

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

Approved by

Supot Salamteh
Section Head

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. No part of this report 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.

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Pluakdaeng Rayong 21140 Thailand | PHONE +66 0 3304 8555 | FAX +66 0 3304 8556
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



Analysis / Test Report

Client : Thai Polyethylene Co., Ltd.

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

P/O :

Project Name : Environmental Monitoring

Project Location : HDPE3

Lot ID: 2411708

Date Received : Feb 06, 2024

Date Reported : Feb 09, 2024

Report Number : 2898080-1 Rev. No.1

Page 3 of 3

Sample Number 2411708-3
Sampled Date Feb 05, 2024
Sample Description Noise Dose
Location HDPE 3 Section 5200
Personal Sampling คุณนิติพงศ์ จารุไพโรจน์
Date Analysis Commenced Feb 07, 2024

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	%	-	-	42.7	No Standard	MOL, Department Labour Protection and Welfare (B.E.2561)	MOL	Rayong
Noise Dose (8 hrs.)	08:00 AM - 08:00 PM	%	-	-	39.8	No Standard	MOL, Department Labour Protection and Welfare (B.E.2561)	MOL	Rayong
TWA (12 hrs.) (Calculated from Lavg)	08:00 AM - 08:00 PM	dB(A)	-	-	79.3	83*	MOL, Department Labour Protection and Welfare (B.E.2561)	MOL	Rayong
TWA (8 hrs.)	08:00 AM - 08:00 PM	dB(A)	-	-	81.0	85	MOL, Department Labour Protection and Welfare (B.E.2561)	MOL	Rayong

Guideline :

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

Sampled By : Norranon Tathongkham

Remark :

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

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. No part of this report 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

Supot Salamteh
Section Head

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Pluakdaeng Rayong 21140 Thailand | PHONE +66 0 3304 8555 | FAX +66 0 3304 8556
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



Analysis / Test Report

Client : Thai Polyethylene Co., Ltd.

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

P/O :

Project Name : Environmental Monitoring

Project Location : HDPE 3

Lot ID: 2415948

Date Received : Feb 13, 2024

Date Reported : Feb 16, 2024

Report Number : 2907401-1

Page 1 of 1

Sample Number 2415948-1
Sampled Date Feb 12, 2024
Sample Description Noise Dose
Location HDPE 3 Section 5400
Personal Sampling คุณนพดล เนตรศรี
Date Analysis Commenced Feb 15, 2024

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	%	-	-	7.6	No Standard	MOL, Department Labour Protection and Welfare (B.E.2561)	MOL	Rayong
Noise Dose (8 hrs.)	08:00 AM - 08:00 PM	%	-	-	7.2	No Standard	MOL, Department Labour Protection and Welfare (B.E.2561)	MOL	Rayong
TWA (12 hrs.) (Calculated from Lavg)	08:00 AM - 08:00 PM	dB(A)	-	-	71.8	83*	MOL, Department Labour Protection and Welfare (B.E.2561)	MOL	Rayong
TWA (8 hrs.)	08:00 AM - 08:00 PM	dB(A)	-	-	73.6	85	MOL, Department Labour Protection and Welfare (B.E.2561)	MOL	Rayong

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 : Amnat Wongsakhe

Remark :

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

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. No part of this report 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

Supot Salamteh
Section Head

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Pluakdaeng Rayong 21140 Thailand | PHONE +66 0 3304 8555 | FAX +66 0 3304 8556
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



Analysis / Test Report

Client : Thai Polyethylene Co., Ltd.

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

P/O : PMM-23-11

Project Name : Environmental Monitoring

Project Location : HDPE3

Lot ID: 2444677

Date Received : May 21, 2024

Date Reported : May 27, 2024

Report Number : 2971428-1

Page 1 of 3

Sample Number 2444677-1
Sampled Date May 20, 2024
Sample Description Noise Dose
Location HDPE 3 Section 5400
Personal Sampling คุณอนันต์ เรืองคำ
Date Analysis Commenced May 27, 2024

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Noise Dose (12 hrs.) (Calculated from Lavg)	07:30 AM - 07:30 PM	%	-	1	10.0	No Standard	MOL, Department Labour Protection and Welfare (B.E.2561)	MOL	Rayong
Noise Dose (8 hrs.)	07:30 AM - 07:30 PM	%	-	1	9.6	No Standard	MOL, Department Labour Protection and Welfare (B.E.2561)	MOL	Rayong
TWA (12 hrs.) (Calculated from Lavg)	07:30 AM - 07:30 PM	dB(A)	-	-	73.0	83*	MOL, Department Labour Protection and Welfare (B.E.2561)	MOL	Rayong
TWA (8 hrs.)	07:30 AM - 07:30 PM	dB(A)	-	-	74.8	85	MOL, Department Labour Protection and Welfare (B.E.2561)	MOL	Rayong

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 : Amnat Wongsakhen

Remark :

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

Approved by

Supot Salamteh
Section Head

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. No part of this report 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.

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Pluakdaeng Rayong 21140 Thailand | PHONE +66 0 3304 8555 | FAX +66 0 3304 8556
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



Analysis / Test Report

Client : Thai Polyethylene Co., Ltd.

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

P/O : PMM-23-11

Project Name : Environmental Monitoring

Project Location : HDPE3

Lot ID: 2444677

Date Received : May 21, 2024

Date Reported : May 27, 2024

Report Number : 2971428-1

Page 2 of 3

Sample Number 2444677-2
Sampled Date May 20, 2024
Sample Description Noise Dose
Location HDPE 3 Section 5700
Personal Sampling คุณทรงวุฒิ ขางสอน
Date Analysis Commenced May 27, 2024

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Noise Dose (12 hrs.) (Calculated from Lavg)	07:30 AM - 07:30 PM	%	-	1	46.8	No Standard	MOL, Department Labour Protection and Welfare (B.E.2561)	MOL	Rayong
Noise Dose (8 hrs.)	07:30 AM - 07:30 PM	%	-	1	43.6	No Standard	MOL, Department Labour Protection and Welfare (B.E.2561)	MOL	Rayong
TWA (12 hrs.) (Calculated from Lavg)	07:30 AM - 07:30 PM	dB(A)	-	-	79.7	83*	MOL, Department Labour Protection and Welfare (B.E.2561)	MOL	Rayong
TWA (8 hrs.)	07:30 AM - 07:30 PM	dB(A)	-	-	81.4	85	MOL, Department Labour Protection and Welfare (B.E.2561)	MOL	Rayong

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 : Amnat Wongsakhen

Remark :

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

Approved by

Supot Salamteh
Section Head

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. No part of this report 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.

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Pluakdaeng Rayong 21140 Thailand | PHONE +66 0 3304 8555 | FAX +66 0 3304 8556
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



Analysis / Test Report

Client : Thai Polyethylene Co., Ltd.

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

P/O : PMM-23-11

Project Name : Environmental Monitoring

Project Location : HDPE3

Lot ID: 2444677

Date Received : May 21, 2024

Date Reported : May 27, 2024

Report Number : 2971428-1

Page 3 of 3

Sample Number 2444677-3
Sampled Date May 20, 2024
Sample Description Noise Dose
Location HDPE 3 Section 5200
Personal Sampling คุณธนรักษ์ พรมวิชัย
Date Analysis Commenced May 27, 2024

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Noise Dose (12 hrs.) (Calculated from Lavg)	07:30 AM - 07:30 PM	%	-	1	17.0	No Standard	MOL, Department Labour Protection and Welfare (B.E.2561)	MOL	Rayong
Noise Dose (8 hrs.)	07:30 AM - 07:30 PM	%	-	1	15.8	No Standard	MOL, Department Labour Protection and Welfare (B.E.2561)	MOL	Rayong
TWA (12 hrs.) (Calculated from Lavg)	07:30 AM - 07:30 PM	dB(A)	-	-	75.3	83*	MOL, Department Labour Protection and Welfare (B.E.2561)	MOL	Rayong
TWA (8 hrs.)	07:30 AM - 07:30 PM	dB(A)	-	-	77.0	85	MOL, Department Labour Protection and Welfare (B.E.2561)	MOL	Rayong

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 : Amnat Wongsakhen

Remark :

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

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. No part of this report 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

Supot Salamteh
Section Head

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Pluakdaeng Rayong 21140 Thailand | PHONE +66 0 3304 8555 | FAX +66 0 3304 8556
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER

แผนผังแสดงระดับเสียง (Noise Contour Map)



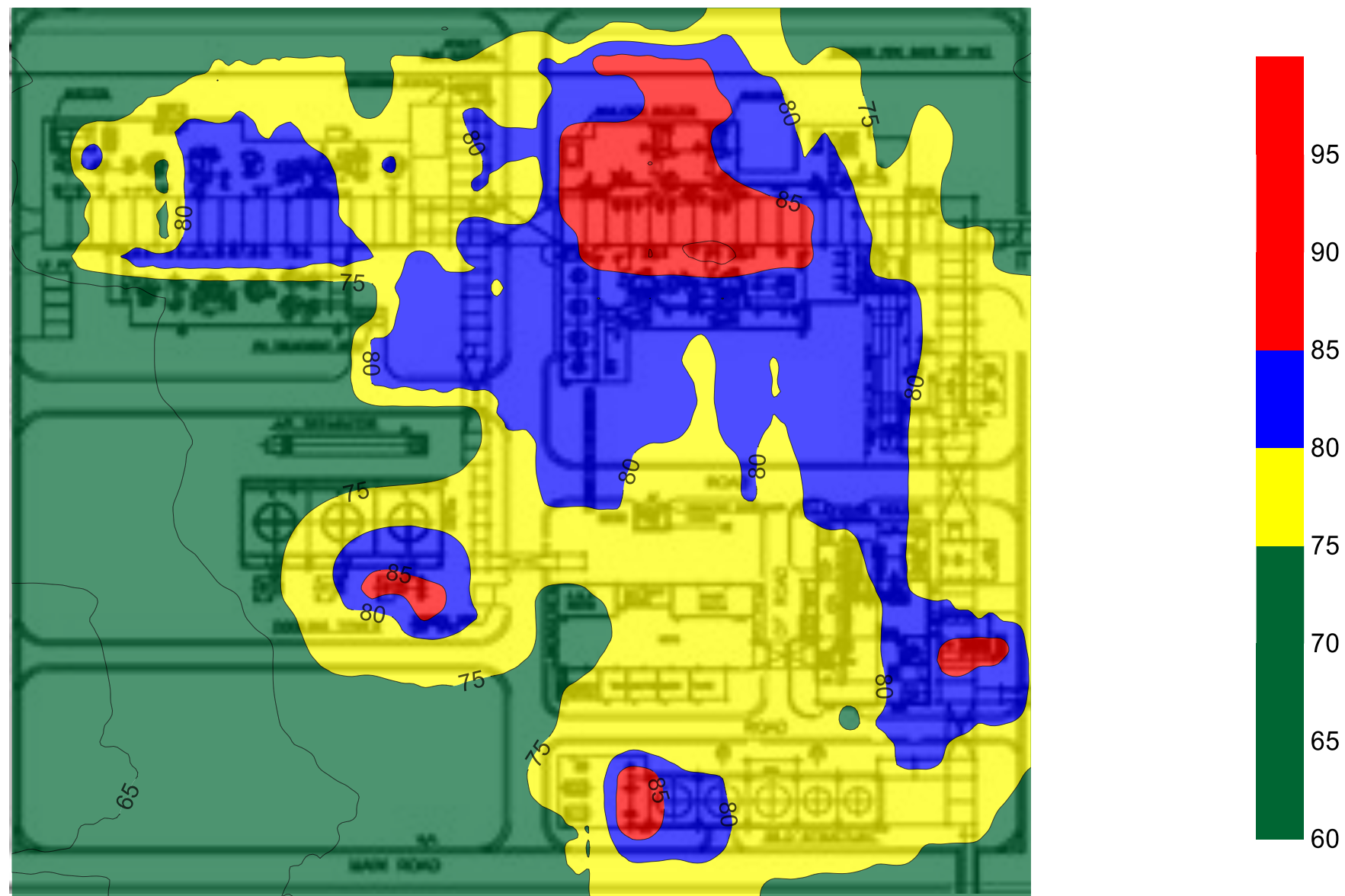
Noise Contour Map

Thai Polyethylene Co., Ltd.

โครงการโรงงานผลิตเม็ดพลาสติกโพลีเอททีลีน ชนิดความหนาแน่นสูง โรงงานที่ 3 (HDPE 3)

Reference Number : Lot 2345119-1

Measurement Date : June 9, 2023



ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250, Thailand | PHONE +66 0 2760 3000 | FAX +66 0 2760 3197
ALS LABORATORY GROUP (THAILAND) CO., LTD. Part of the ALS Group



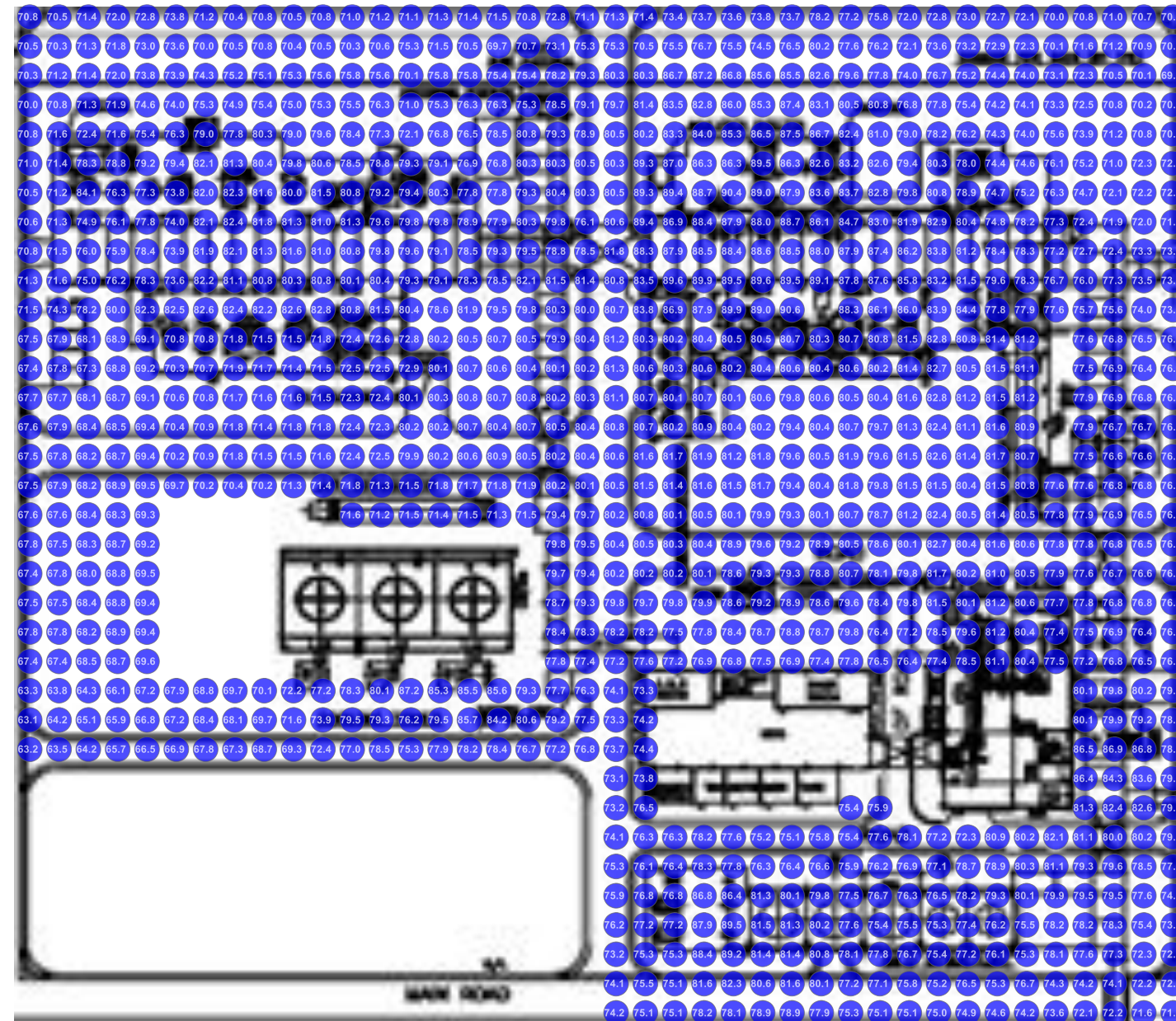
Noise Contour Map

Thai Polyethylene Co., Ltd.

Reference Number : Lot 2345119-1

Measurement Date : June 9, 2023

โครงการโรงงานผลิตเม็ดพลาสติกโพลีเอททีลีน ชนิดความหนาแน่นสูง โรงงานที่ 3 (HDPE 3)



ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250, Thailand | PHONE +66 0 2760 3000 | FAX +66 0 2760 3197
ALS LABORATORY GROUP (THAILAND) CO., LTD. Part of the ALS Group

คุณภาพอากาศภายในสถานประกอบการ



Analysis / Test Report

Client : Thai Polyethylene Co., Ltd.

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

P/O : PMM-23-11

Project Name : Environmental Monitoring

Project Location : HDPE3

Lot ID: 2411688

Date Received : Feb 06, 2024

Date Reported : Feb 16, 2024

Report Number : 2898035-1

Page 1 of 4

Sample Number 2411688-1
Sampled Date Feb 05, 2024
Sample Description Air Quality
Location บริเวณ Hexane Recovery Unit
Date Analysis Commenced Feb 07, 2024
Condition of Sample Drawn into one sorbent tube, refrigerated
Barometric Pressure 761 mmHg
Atmospheric Temperature 32.0 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
n-Hexane	09:00 AM - 11:00 AM	ppm	-	0.03	0.07	500	NIOSH (2003), 1500	MOL	Bangkok

Guideline :

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

Sampled By : Prasanmit Kueanpet

Remark :

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

Approved by

Thanita K.

Thanita Kulsuriwong
Scientist (4)

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. No part of this report 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.

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Pluakdaeng Rayong 21140 Thailand | PHONE +66 0 3304 8555 | FAX +66 0 3304 8556
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



Analysis / Test Report

Client : Thai Polyethylene Co., Ltd.

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

P/O : PMM-23-11

Project Name : Environmental Monitoring

Project Location : HDPE3

Lot ID: 2411688

Date Received : Feb 06, 2024

Date Reported : Feb 16, 2024

Report Number : 2898035-1

Page 2 of 4

Sample Number 2411688-2
Sampled Date Feb 05, 2024
Sample Description Air Quality
Location หน่วยกมลันแยกเสกเซนและบิวทีน-1
Date Analysis Commenced Feb 07, 2024
Condition of Sample Drawn into one 10-L air sampling bag, one sorbent tube, refrigerated
Barometric Pressure 761 mmHg
Atmospheric Temperature 32.0 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
1-Butene	09:00 AM - 11:00 AM	ppm	-	1.0	<1.0	250	Based on ASTM, D2712-18	MOL	Bangkok
n-Hexane	09:00 AM - 11:00 AM	ppm	-	0.03	0.31	500	NIOSH (2003), 1500	MOL	Bangkok

Guideline :

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

Sampled By : Prasanmit Kueanpet

Remark :

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

Approved by

Thanita K.

Thanita Kulsuriwong
Scientist (4)

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. No part of this report 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.

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Pluakdaeng Rayong 21140 Thailand | PHONE +66 0 3304 8555 | FAX +66 0 3304 8556
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



Analysis / Test Report

Client : Thai Polyethylene Co., Ltd.
271, Sukhumvit Road, Tambol Map Ta Phut, Amphur Muang, Rayong Thailand 21150
P/O : PMM-23-11
Project Name : Environmental Monitoring
Project Location : HDPE3

Lot ID: 2411688

Date Received : Feb 06, 2024
Date Reported : Feb 16, 2024
Report Number : 2898035-1

Page 3 of 4

Sample Number : 2411688-3
Sampled Date : Feb 05, 2024
Sample Description : Air Quality
Location : บริเวณ Preheater
Date Analysis Commenced : Feb 08, 2024
Condition of Sample : Drawn into two 10-L air sampling bags
Barometric Pressure : 761 mmHg
Atmospheric Temperature : 32.0 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
1-Butene	09:00 AM - 11:00 AM	ppm	-	1.0	<1.0	250	Based on ASTM, D2712-18	MOL	Bangkok
Ethylene	09:00 AM - 11:00 AM	ppm	-	1.0	<1.0	200	Based on ASTM, D 2712-18	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 (2024).

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 : Prasanmit Kueanpet

Remark :

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

Approved by

Thanita K.

Thanita Kulsuriwong
Scientist (4)

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. No part of this report 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.

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Pluakdaeng Rayong 21140 Thailand | PHONE +66 0 3304 8555 | FAX +66 0 3304 8556
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



Analysis / Test Report

Client : Thai Polyethylene Co., Ltd.
271, Sukhumvit Road, Tambol Map Ta Phut, Amphur Muang, Rayong Thailand 21150
P/O : PMM-23-11
Project Name : Environmental Monitoring
Project Location : HDPE3

Lot ID: 2411688

Date Received : Feb 06, 2024
Date Reported : Feb 16, 2024
Report Number : 2898035-1

Page 4 of 4

Sample Number 2411688-4
Sampled Date Feb 05, 2024
Sample Description Air Quality
Location บริเวณแผนกบรรจุเม็ดพลาสติก (Bagging)
Date Analysis Commenced Feb 09, 2024
Condition of Sample Drawn into one filter paper placed in plastic cassette
Barometric Pressure 761 mmHg
Atmospheric Temperature 32.0 °C

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

Approved by

Thanita K.

Thanita Kulsuriwong
Scientist (4)

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. No part of this report 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.

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Pluakdaeng Rayong 21140 Thailand | PHONE +66 0 3304 8555 | FAX +66 0 3304 8556
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



Analysis / Test Report

Client : Thai Polyethylene Co., Ltd.
271, Sukhumvit Road, Tambol Map Ta Phut, Amphur Muang, Rayong Thailand 21150
P/O : PMM-23-11
Project Name : Environmental Monitoring
Project Location : HDPE3

Lot ID: 2444672

Date Received : May 21, 2024

Date Reported : Jun 03, 2024

Report Number : 2971423-1

Page 1 of 4

Sample Number : 2444672-1
Sampled Date : May 20, 2024
Sample Description : Air Quality
Location : บริเวณ Hexane Recovery Unit
Date Analysis Commenced : May 23, 2024
Condition of Sample : Drawn into one sorbent tube, refrigerated
Barometric Pressure : 752 mmHg
Atmospheric Temperature : 30.0 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
n-Hexane	09:30 AM - 11:30 AM	ppm	-	0.03	0.15	500	NIOSH (2003), 1500	MOL	Bangkok

Guideline :

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

Sampled By : Prasanmit Kueanpet

Remark :

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

Approved by

Orawan R.

Orawan Rakyong
Scientist (3)

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. No part of this report 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.

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Pluakdaeng Rayong 21140 Thailand | PHONE +66 0 3304 8555 | FAX +66 0 3304 8556
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



Analysis / Test Report

Client : Thai Polyethylene Co., Ltd.

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

P/O : PMM-23-11

Project Name : Environmental Monitoring

Project Location : HDPE3

Lot ID: 2444672

Date Received : May 21, 2024

Date Reported : Jun 03, 2024

Report Number : 2971423-1

Page 2 of 4

Sample Number 2444672-2
Sampled Date May 20, 2024
Sample Description Air Quality
Location หน่วยกมลันแยกเสกเซนและบิวทีน-1
Date Analysis Commenced May 23, 2024
Condition of Sample Drawn into one 10-L air sampling bag and one sorbent tube, refrigerated
Barometric Pressure 752 mmHg
Atmospheric Temperature 30.0 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
1-Butene	09:30 AM - 11:30 AM	ppm	-	1.0	<1.0	250	Based on ASTM, D2712-18	MOL	Bangkok
n-Hexane	09:30 AM - 11:30 AM	ppm	-	0.03	0.21	500	NIOSH (2003), 1500	MOL	Bangkok

Guideline :

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

Sampled By : Prasanmit Kueanpet

Remark :

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

Approved by

Orawan R.

Orawan Rakyong
Scientist (3)

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. No part of this report 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.

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Pluakdaeng Rayong 21140 Thailand | PHONE +66 0 3304 8555 | FAX +66 0 3304 8556
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



Analysis / Test Report

Client : Thai Polyethylene Co., Ltd.
271, Sukhumvit Road, Tambol Map Ta Phut, Amphur Muang, Rayong Thailand 21150
P/O : PMM-23-11
Project Name : Environmental Monitoring
Project Location : HDPE3

Lot ID: 2444672

Date Received : May 21, 2024

Date Reported : Jun 03, 2024

Report Number : 2971423-1

Page 3 of 4

Sample Number : 2444672-3
Sampled Date : May 20, 2024
Sample Description : Air Quality
Location : บริเวณ Preheater
Date Analysis Commenced : May 23, 2024
Condition of Sample : Drawn into one 10-L air sampling bag
Barometric Pressure : 752 mmHg
Atmospheric Temperature : 30.0 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
1-Butene	09:30 AM - 11:30 AM	ppm	-	1.0	<1.0	250	Based on ASTM, D2712-18	MOL	Bangkok
Ethylene	09:30 AM - 11:30 AM	ppm	-	1.0	<1.0	200	Based on ASTM, D 2712-18	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 (2024).

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 : Prasanmit Kueanpet

Remark :

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

Approved by

Orawan R.

Orawan Rakyong
Scientist (3)

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. No part of this report 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.

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Pluakdaeng Rayong 21140 Thailand | PHONE +66 0 3304 8555 | FAX +66 0 3304 8556
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



Analysis / Test Report

Client : Thai Polyethylene Co., Ltd.

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

P/O : PMM-23-11

Project Name : Environmental Monitoring

Project Location : HDPE3

Lot ID: 2444672

Date Received : May 21, 2024

Date Reported : Jun 03, 2024

Report Number : 2971423-1

Page 4 of 4

Sample Number 2444672-4
Sampled Date May 20, 2024
Sample Description Air Quality
Location บริเวณแผนกบรรจุเม็ดพลาสติก (Bagging)
Date Analysis Commenced May 24, 2024
Condition of Sample Drawn into one filter paper placed in plastic cassette
Barometric Pressure 752 mmHg
Atmospheric Temperature 30.0 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Total Dust	09:30 AM - 11:30 AM	mg/m3	-	0.15	0.17	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)

Approved by

Orawan R.

Orawan Rakyong
Scientist (3)

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. No part of this report 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.

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Pluakdaeng Rayong 21140 Thailand | PHONE +66 0 3304 8555 | FAX +66 0 3304 8556
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER

ระดับความร้อนในบริเวณการทำงาน



Analysis / Test Report

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

P/O :

Project Name : Environmental Monitoring

Project Location : HDPE3

Lot ID: 2411690

Date Received : Feb 06, 2024

Date Reported : Feb 09, 2024

Report Number: 2898051-1

Page 1 of 2

Sample Number 2411690-1
Parameter Heat Stress (Sampling Time : 10.00 AM - 12.00 PM)
Measurement Date Feb 05, 2024
Measurement by Norranon Tathongkham
Location ปฏิบัติงาน 1 พื้นที่ (ชื่อ-นามสกุล ผู้ปฏิบัติงาน : - แผนก : -)

Location	Duration (min)	WBGT (°C)	NWB (°C)	GT (°C)	DB (°C)
บริเวณ Dryer	120	28.7	27.2	32.1	31.8
Average (WBGT)		28.7			
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

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Pluakdaeng Rayong 21140 Thailand | PHONE +66 0 3304 8555 | FAX +66 0 3304 8556
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



Analysis / Test Report

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

Lot ID: 2411690

Date Received : Feb 06, 2024

Date Reported : Feb 09, 2024

Report Number: 2898051-1

P/O :

Project Name : Environmental Monitoring

Project Location : HDPE3

Page 2 of 2

Sample Number 2411690-2
Parameter Heat Stress (Sampling Time : 10.00 AM - 12.00 PM)
Measurement Date Feb 05, 2024
Measurement by Norranon Tathongkham
Location ปฏิบัติงาน พื้นที่ (ชื่อ-นามสกุล ผู้ปฏิบัติงาน : แผนก :)

Location	Duration (min)	WBGT (°C)	NWB (°C)	GT (°C)	DB (°C)
Pelletizer	120	30.4	28.6	34.7	34.5
Average (WBGT)		30.4			
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

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Pluakdaeng Rayong 21140 Thailand | PHONE +66 0 3304 8555 | FAX +66 0 3304 8556
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company



Analysis / Test Report

Client : Thai Polyethylene Co., Ltd.
271, Sukhumvit Road, Tambol Map Ta Phut, Amphur Muang, Rayong Thailand
21150
P/O : PMM-23-11
Project Name : Environmental Monitoring
Project Location : HDPE3

Lot ID: 2444674

Date Received : May 21, 2024

Date Reported : May 25, 2024

Report Number: 2971426-1

Page 1 of 2

Sample Number 2444674-1
Parameter Heat Stress (Sampling Time : 10.00 AM - 12.00 PM)
Measurement Date May 20, 2024
Measurement by Amnat Wongsakhen
Location ปฏิบัติงาน 1 พื้นที่ (ชื่อ-นามสกุล ผู้ปฏิบัติงาน : - แผนก : -)

Location	Duration (min)	WBGT (°C)	NWB (°C)	GT (°C)	DB (°C)
บริเวณ Dryer	120	28.4	27.3	31.1	31.1
Average (WBGT)		28.4			
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

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Pluakdaeng Rayong 21140 Thailand | PHONE +66 0 3304 8555 | FAX +66 0 3304 8556
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



Analysis / Test Report

Client : Thai Polyethylene Co., Ltd.
271, Sukhumvit Road, Tambol Map Ta Phut, Amphur Muang, Rayong Thailand
21150
P/O : PMM-23-11
Project Name : Environmental Monitoring
Project Location : HDPE3

Lot ID: 2444674

Date Received : May 21, 2024

Date Reported : May 25, 2024

Report Number: 2971426-1

Page 2 of 2

Sample Number 2444674-2
Parameter Heat Stress (Sampling Time : 10.00 AM - 12.00 PM)
Measurement Date May 20, 2024
Measurement by Amnat Wongsakhen
Location ปฏิบัติงาน 1 พื้นที่ (ชื่อ-นามสกุล ผู้ปฏิบัติงาน : - แผนก : -)

Location	Duration (min)	WBGT (°C)	NWB (°C)	GT (°C)	DB (°C)
บริเวณ Pelletizer	120	29.7	27.9	33.9	32.7
Average (WBGT)		29.7			
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

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Pluakdaeng Rayong 21140 Thailand | PHONE +66 0 3304 8555 | FAX +66 0 3304 8556
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER