

ภาคผนวก ค

ผลการติดตามตรวจสอบผลกระทบสิ่งแวดล้อม

ภาคผนวก ค-1

คุณภาพอากาศจากแหล่งกำเนิด



Analysis / Test Report



TESTING
No.0042

Lot ID: 2417901

Date Received : Jun 14, 2024
Date Reported : Jun 21, 2024
Report Number: 2911889-1

Client : Siam Polystyrene Co., Ltd.
8, Map Ta Phut Industrial Estate, 1-4 Road, Map ta phut, Muang, Rayong Thailand 21150
P/O : 4515755108
Project Name : Environmental Quality Monitoring
Project Location : Map Ta Phut_PS (SPCL)

Page 2 of 2

Sample Number 2417901-1

Sampled Date Jun 14, 2024

Sample Description Emission from Stationary Source

Location Heater A (GPS 47P 033735, 1404279)

Date Analysis Commenced Jun 15, 2024

Condition of Sample Extracted into two 2-L collection flasks, one filter paper placed in plastic petri dish, one 10-L air sampling bag and one amber plastic bottle, refrigerated

Stack Description									
Ambient Pressure	754	mmHg	Diameter	0.60	m	Oxygen	5.1	%	
Ambient Temperature	36.5	°C	Shape	Circle		Carbon Dioxide	9.0	%	
Type of Process	Combustion		Stack Temperature	238	°C	Gas Velocity	5.0	m/s	
Type of Fuel	Natural Gas		Moisture	11.02	%	Flow Rate (Actual O2)	2611	Nm3/hr	

Analyte	Sampled Time	Unit	LOD	LOQ (LOR)	Result at 7 % O ₂	Guideline (1)	Method (2)	Testing Location
Air Testing								
Carbon Monoxide *	01:50 PM - 02:00 PM	ppm	-	1.0	1.3	1.48	690	United States Environmental Protection Agency, EPA Method 10
Oxides of Nitrogen *	01:30 PM - 01:40 PM	ppm	-	1.06	52.7	59.90	200	149 United States Environmental Protection Agency, EPA Method 7
Sulfur dioxide *	01:20 PM - 01:50 PM	ppm	-	2.0	<2.0	<2.0	60	United States Environmental Protection Agency, EPA Method 6
Total Suspended Particulate	01:20 PM - 02:08 PM	mg/m3	-	0.5	4.6	5.23	320	68 United States Environmental Protection Agency, EPA Method 5

Guideline :

- Guideline
1) Notification of the Ministry of Industry 2006 (B.E. 2549) Published in the Royal Government Gazette, Vol.123 Special Part 125 D, dated December 4, 2006 (B.E. 2549)
2) Emission Air Standard according to EIA study of PS-SPCL Plant, Approval Letter No. Tor Sor 1009/9/11032 dated Nov 6, B.E.2555.

Technical Management

Thanitak.

Approved by

Dharmu.

Dej Changchon
Senior Manager
โทรศัพท์ 3-323-9-9442

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.

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778-311/EMAIL



Analysis / Test Report



TESTING
No.0042

Lot ID: 2417901

Date Received : Jun 14, 2024
Date Reported : Jun 21, 2024
Report Number: 2911889-1

Client : Siam Polystyrene Co., Ltd.
8, Map Ta Phut Industrial Estate, 1-4 Road, Map ta phut, Muang, Rayong Thailand 21150
P/O : 4515755108
Project Name : Environmental Quality Monitoring
Project Location : Map Ta Phut_PS (SPCL)

Sample Number 2417901-1

Sampled Date Jun 14, 2024

Sample Description Emission from Stationary Source

Location Heater A (GPS 47P 033735, 1404279)

Date Analysis Commenced Jun 15, 2024

Condition of Sample Extracted into two 2-L collection flasks, one filter paper placed in plastic petri dish, one 10-L air sampling bag and one amber plastic bottle, refrigerated

Stack Description									
Ambient Pressure	754	mmHg	Diameter	0.60	m	Oxygen	5.1	%	
Ambient Temperature	36.5	°C	Shape	Circle		Carbon Dioxide	9.0	%	
Type of Process	Combustion		Stack Temperature	238	°C	Gas Velocity	5.0	m/s	
Type of Fuel	Natural Gas		Moisture	11.02	%	Flow Rate (Actual O2)	2611	Nm3/hr	

Analyte	Sampled Time	Unit	LOD	LOQ (LOR)	Result Emission Rate	Guideline (1)	Method (2)	Testing Location
Air Testing								
Carbon Monoxide *	01:50 PM - 02:00 PM	g/s	-	-	C.001	-	Calculated	Rayong
Oxides of Nitrogen *	01:30 PM - 01:40 PM	g/s	-	-	C.082	-	Calculated	Rayong
Sulfur dioxide *	01:20 PM - 01:50 PM	g/s	-	-	<2.004	-	Calculated	Rayong
Total Suspended Particulate	01:20 PM - 02:08 PM	g/s	-	-	C.004	-	Calculated	Rayong

Guideline :

- Guideline
1) Notification of the Ministry of Industry 2006 (B.E. 2549) Published in the Royal Government Gazette, Vol.123 Special Part 125 D, dated December 4, 2006 (B.E. 2549)
2) Emission Air Standard according to EIA study of PS-SPCL Plant, Approval Letter No. Tor Sor 1009/9/11032 dated Nov 6, B.E.2555.

Sampled By : Warawut Pulpia

Remark :

- LOD : Limit of Detection
- < : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.

Technical Management

Thanitak.

Approved by

Dharmu.

Dej Changchon
Senior Manager
โทรศัพท์ 3-323-9-9442

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S Report_Air Stack_O2_2SL.pdf (5-89PM)

ภาคผนวก ค-2

คุณภาพอากาศในบรรยากาศ



Analysis / Test Report



TESTING
No.0042

Lot ID: 2417840

Date Received : Jun 17, 2024

Date Reported : Jun 20, 2024

Report Number: 2911868-1

Client : Siam Polystyrene Co., Ltd.

8, Map Ta Phut Industrial Estate, I-4 Road, Map ta phut, Muang, Rayong Thailand

21150

P/O : 4515755108

Project Name : Environmental Quality Monitoring

Project Location : Map Ta Phut_PS (SPCL)

Page 1 of 1

Sample Description Air Quality
Location บริเวณพื้นที่อุตสาหกรรม (โรงงานพลาสติก) (GIS-47P 0731964, 1403752)
Date Analysis Commenced Jun 17, 2024
Condition of Sample Drawn into one glass filter paper (8x10 inch) placed in plastic bag

Sample Number	Sampled Date	Total Suspended Particulate (mg/m3)	Barometric Pressure (mm Hg)	Atmospheric Temperature (°C)
2417840-1	Jun 09 - Jun 10, 2024	0.027	751	32
2417840-2	Jun 10 - Jun 11, 2024	0.034	751	29
2417840-3	Jun 11 - Jun 12, 2024	0.028	751	29
2417840-4	Jun 12 - Jun 13, 2024	0.037	751	30
2417840-5	Jun 13 - Jun 14, 2024	0.040	751	31
2417840-6	Jun 14 - Jun 15, 2024	0.043	751	31
2417840-7	Jun 15 - Jun 16, 2024	0.037	751	32

Guideline
Reference Method

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

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

Sampled By : Chatchai Sukpla

Remark :

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

Approved by

Wilawan Borirak
Manager

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Analysis / Test Report



TESTING
No.0042

Lot ID: 2417712

Date Received : Jun 17, 2024

Date Reported : Jun 25, 2024

Report Number : 2911683-C8

Client : Siam Polystyrene Co., Ltd.

8, Map Ta Phut Industrial Estate, I-4 Road, Map ta phut, Muang, Rayong Thailand

21150

P/O : 4515073640

Project Name : Environmental Quality Monitoring

Project Location : Map Ta Phut_PS (SPCL)

Page 1 of 1

Sample Description Air Quality
Location บริเวณพื้นที่อุตสาหกรรม (โรงงานพลาสติก) (GIS-47P 0735531, 1402769)
Date Analysis Commenced Jun 17, 2024
Condition of Sample Drawn into one glass filter paper (8x10 inch) placed in plastic bag and one quartz filter paper (8x10 inch) placed in plastic bag

Sample Number	Sampled Date	Total Suspended Particulate (mg/m3)	Barometric Pressure (mm Hg)	Atmospheric Temperature (°C)
2417712-1	Jun 09 - Jun 10, 2024	0.022	751	32
2417712-2	Jun 10 - Jun 11, 2024	0.023	751	29
2417712-3	Jun 11 - Jun 12, 2024	0.023	751	29
2417712-4	Jun 12 - Jun 13, 2024	0.034	751	30
2417712-5	Jun 13 - Jun 14, 2024	0.066	751	31
2417712-6	Jun 14 - Jun 15, 2024	0.032	751	31
2417712-7	Jun 15 - Jun 16, 2024	0.035	751	32

Guideline
Reference Method

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

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

Sampled By : Chatchai Sukpla

Approved by

Wilawan Borirak
Manager

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Analysis / Test Report



Client : Siam Polystyrene Co., Ltd.
8, Map Ta Phut Industrial Estate, I-4 Road, Map ta phut, Muang, Rayong Thailand
21150
P/O : 4515073640
Project Name : Environmental Quality Monitoring
Project Location : Map Ta Phut PS (SPCL)

TESTING
No.0042
Lot ID: 2417746
Date Received : Jun 17, 2024
Date Reported : Jun 25, 2024
Report Number : 2911687-1C8

Page 1 of 1

Sample Description	Air Quality	Location	Parameter	Measurement Date	Measurement by
2417746-1	0.025	Jun 09 - Jun 10, 2024	751	31	
2417746-2	0.028	Jun 10 - Jun 11, 2024	751	31	
2417746-3	0.020	Jun 11 - Jun 12, 2024	751	31	
2417746-4	0.030	Jun 12 - Jun 13, 2024	751	31	
2417746-5	0.020	Jun 13 - Jun 14, 2024	751	32	
2417746-6	0.039	Jun 14 - Jun 15, 2024	751	32	
2417746-7	0.055	Jun 15 - Jun 16, 2024	751	32	
Guideline	0.33				

Reference Method
Total Suspended Particulate : US EPA 40 CFR Part 50 Appendix B
Guideline : Notification of the National Environmental Board. No.24, 2004 (B.E.2547) dated September 22, 2004
Sampled By : Chatchai Sukpia

Approved by

Wibb.

Witawan Borrak
Manager

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Analysis / Test Report

Client : Siam Polystyrene Co., Ltd.
8, Map Ta Phut Industrial Estate, I-4 Road, Map ta phut, Muang, Rayong Thailand
21150
P/O : 451575108
Project Name : Environmental Quality Monitoring
Project Location : Map Ta Phut PS (SPCL)

Lot ID: 2417833
Date Received : Jun 18, 2024
Date Reported : Jun 24, 2024
Report Number : 2911825-1

Page 1 of 1

Sample Description	Air Quality	Location	Parameter	Measurement Date	Measurement by
2417833-1	0.002	Jun 09, 2024	0.004	0.004	0.006
2417833-2	0.004	Jun 10, 2024	0.004	0.003	0.003
2417833-3	0.006	Jun 11, 2024	0.005	0.003	0.003
2417833-4	0.007	Jun 12, 2024	0.003	0.004	0.004
2417833-5	0.006	Jun 13, 2024	0.003	0.003	0.003
2417833-6	0.006	Jun 14, 2024	0.004	0.004	0.004
2417833-7	0.004	Jun 15, 2024	0.004	0.004	0.004
2417833-8	0.004	Jun 16, 2024	0.004	0.004	0.004
2417833-9	0.004	Jun 17, 2024	0.004	0.004	0.004
2417833-10	0.004	Jun 18, 2024	0.004	0.004	0.004
2417833-11	0.004	Jun 19, 2024	0.004	0.004	0.004
2417833-12	0.004	Jun 20, 2024	0.004	0.004	0.004
2417833-13	0.004	Jun 21, 2024	0.004	0.004	0.004
2417833-14	0.004	Jun 22, 2024	0.004	0.004	0.004
2417833-15	0.004	Jun 23, 2024	0.004	0.004	0.004
2417833-16	0.004	Jun 24, 2024	0.004	0.004	0.004
2417833-17	0.004	Jun 25, 2024	0.004	0.004	0.004
2417833-18	0.004	Jun 26, 2024	0.004	0.004	0.004
2417833-19	0.004	Jun 27, 2024	0.004	0.004	0.004
2417833-20	0.004	Jun 28, 2024	0.004	0.004	0.004
2417833-21	0.004	Jun 29, 2024	0.004	0.004	0.004
2417833-22	0.004	Jun 30, 2024	0.004	0.004	0.004
2417833-23	0.004	Jul 01, 2024	0.004	0.004	0.004
2417833-24	0.004	Jul 02, 2024	0.004	0.004	0.004
2417833-25	0.004	Jul 03, 2024	0.004	0.004	0.004
2417833-26	0.004	Jul 04, 2024	0.004	0.004	0.004
2417833-27	0.004	Jul 05, 2024	0.004	0.004	0.004
2417833-28	0.004	Jul 06, 2024	0.004	0.004	0.004
2417833-29	0.004	Jul 07, 2024	0.004	0.004	0.004
2417833-30	0.004	Jul 08, 2024	0.004	0.004	0.004
2417833-31	0.004	Jul 09, 2024	0.004	0.004	0.004
2417833-32	0.004	Jul 10, 2024	0.004	0.004	0.004
2417833-33	0.004	Jul 11, 2024	0.004	0.004	0.004
2417833-34	0.004	Jul 12, 2024	0.004	0.004	0.004
2417833-35	0.004	Jul 13, 2024	0.004	0.004	0.004
2417833-36	0.004	Jul 14, 2024	0.004	0.004	0.004
2417833-37	0.004	Jul 15, 2024	0.004	0.004	0.004
2417833-38	0.004	Jul 16, 2024	0.004	0.004	0.004
2417833-39	0.004	Jul 17, 2024	0.004	0.004	0.004
2417833-40	0.004	Jul 18, 2024	0.004	0.004	0.004
2417833-41	0.004	Jul 19, 2024	0.004	0.004	0.004
2417833-42	0.004	Jul 20, 2024	0.004	0.004	0.004
2417833-43	0.004	Jul 21, 2024	0.004	0.004	0.004
2417833-44	0.004	Jul 22, 2024	0.004	0.004	0.004
2417833-45	0.004	Jul 23, 2024	0.004	0.004	0.004
2417833-46	0.004	Jul 24, 2024	0.004	0.004	0.004
2417833-47	0.004	Jul 25, 2024	0.004	0.004	0.004
2417833-48	0.004	Jul 26, 2024	0.004	0.004	0.004
2417833-49	0.004	Jul 27, 2024	0.004	0.004	0.004
2417833-50	0.004	Jul 28, 2024	0.004	0.004	0.004
2417833-51	0.004	Jul 29, 2024	0.004	0.004	0.004
2417833-52	0.004	Jul 30, 2024	0.004	0.004	0.004
2417833-53	0.004	Jul 31, 2024	0.004	0.004	0.004
2417833-54	0.004	Aug 01, 2024	0.004	0.004	0.004
2417833-55	0.004	Aug 02, 2024	0.004	0.004	0.004
2417833-56	0.004	Aug 03, 2024	0.004	0.004	0.004
2417833-57	0.004	Aug 04, 2024	0.004	0.004	0.004
2417833-58	0.004	Aug 05, 2024	0.004	0.004	0.004
2417833-59	0.004	Aug 06, 2024	0.004	0.004	0.004
2417833-60	0.004	Aug 07, 2024	0.004	0.004	0.004
2417833-61	0.004	Aug 08, 2024	0.004	0.004	0.004
2417833-62	0.004	Aug 09, 2024	0.004	0.004	0.004
2417833-63	0.004	Aug 10, 2024	0.004	0.004	0.004
2417833-64	0.004	Aug 11, 2024	0.004	0.004	0.004
2417833-65	0.004	Aug 12, 2024	0.004	0.004	0.004
2417833-66	0.004	Aug 13, 2024	0.004	0.004	0.004
2417833-67	0.004	Aug 14, 2024	0.004	0.004	0.004
2417833-68	0.004	Aug 15, 2024	0.004	0.004	0.004
2417833-69	0.004	Aug 16, 2024	0.004	0.004	0.004
2417833-70	0.004	Aug 17, 2024	0.004	0.004	0.004
2417833-71	0.004	Aug 18, 2024	0.004	0.004	0.004
2417833-72	0.004	Aug 19, 2024	0.004	0.004	0.004
2417833-73	0.004	Aug 20, 2024	0.004	0.004	0.004
2417833-74	0.004	Aug 21, 2024	0.004	0.004	0.004
2417833-75	0.004	Aug 22, 2024	0.004	0.004	0.004
2417833-76	0.004	Aug 23, 2024	0.004	0.004	0.004
2417833-77	0.004	Aug 24, 2024	0.004	0.004	0.004
2417833-78	0.004	Aug 25, 2024	0.004	0.004	0.004
2417833-79	0.004	Aug 26, 2024	0.004	0.004	0.004
2417833-80	0.004	Aug 27, 2024	0.004	0.004	0.004
2417833-81	0.004	Aug 28, 2024	0.004	0.004	0.004
2417833-82	0.004	Aug 29, 2024	0.004	0.004	0.004
2417833-83	0.004	Aug 30, 2024	0.004	0.004	0.004
2417833-84	0.004	Aug 31, 2024	0.004	0.004	0.004
2417833-85	0.004	Sep 01, 2024	0.004	0.004	0.004
2417833-86	0.004	Sep 02, 2024	0.004	0.004	0.004
2417833-87	0.004	Sep 03, 2024	0.004	0.004	0.004
2417833-88	0.004	Sep 04, 2024	0.004	0.004	0.004
2417833-89	0.004	Sep 05, 2024	0.004	0.004	0.004
2417833-90	0.004	Sep 06, 2024	0.004	0.004	0.004
2417833-91	0.004	Sep 07, 2024	0.004	0.004	0.004
2417833-92	0.004	Sep 08, 2024	0.004	0.004	0.004
2417833-93	0.004	Sep 09, 2024	0.004	0.004	0.004
2417833-94	0.004	Sep 10, 2024	0.004	0.004	0.004
2417833-95	0.004	Sep 11, 2024	0.004	0.004	0.004
2417833-96	0.004	Sep 12, 2024	0.004	0.004	0.004
2417833-97	0.004	Sep 13, 2024	0.004	0.004	0.004
2417833-98	0.004	Sep 14, 2024	0.004	0.004	0.004
2417833-99	0.004	Sep 15, 2024	0.004	0.004	0.004
2417833-100	0.004	Sep 16, 2024	0.004	0.004	0.004

Standard : Notification of the National Environment Board No. 33, 2009 (B.E. 2552).
Reference Method : US EPA Method Part 50 App. F (Chemiluminescence)

Approved by

Orawan R.

Orawan Rakyong
Scientist (3)

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Analysis / Test Report

Client : Siam Polystyrene Co., Ltd.
8, Map Ta Phut Industrial Estate, 1-4 Road, Map ta phut, Muang, Rayong Thailand
21150
P/O : 4700033695
Project Name :
Project Location :
Lot ID: 2417706
Date Received : Jun 18, 2024
Date Reported : Jun 24, 2024
Report Number: 2911613-IC8

Page 1 of 1

Sample Description		Air Quality		2417706-1		2417706-2		2417706-3		2417706-4		2417706-5		2417706-6		2417706-7	
Location		Air Quality		2417706-1		2417706-2		2417706-3		2417706-4		2417706-5		2417706-6		2417706-7	
Parameter		Air Quality		2417706-1		2417706-2		2417706-3		2417706-4		2417706-5		2417706-6		2417706-7	
Measurement Date		Air Quality		2417706-1		2417706-2		2417706-3		2417706-4		2417706-5		2417706-6		2417706-7	
Measurement by		Air Quality		2417706-1		2417706-2		2417706-3		2417706-4		2417706-5		2417706-6		2417706-7	
Time		Air Quality		2417706-1		2417706-2		2417706-3		2417706-4		2417706-5		2417706-6		2417706-7	
10:00 AM - 11:00 AM		Air Quality		2417706-1		2417706-2		2417706-3		2417706-4		2417706-5		2417706-6		2417706-7	
11:00 AM - 12:00 PM		Air Quality		2417706-1		2417706-2		2417706-3		2417706-4		2417706-5		2417706-6		2417706-7	
12:00 PM - 01:00 PM		Air Quality		2417706-1		2417706-2		2417706-3		2417706-4		2417706-5		2417706-6		2417706-7	
01:00 PM - 02:00 PM		Air Quality		2417706-1		2417706-2		2417706-3		2417706-4		2417706-5		2417706-6		2417706-7	
02:00 PM - 03:00 PM		Air Quality		2417706-1		2417706-2		2417706-3		2417706-4		2417706-5		2417706-6		2417706-7	
03:00 PM - 04:00 PM		Air Quality		2417706-1		2417706-2		2417706-3		2417706-4		2417706-5		2417706-6		2417706-7	
04:00 PM - 05:00 PM		Air Quality		2417706-1		2417706-2		2417706-3		2417706-4		2417706-5		2417706-6		2417706-7	
05:00 PM - 06:00 PM		Air Quality		2417706-1		2417706-2		2417706-3		2417706-4		2417706-5		2417706-6		2417706-7	
06:00 PM - 07:00 PM		Air Quality		2417706-1		2417706-2		2417706-3		2417706-4		2417706-5		2417706-6		2417706-7	
07:00 PM - 08:00 PM		Air Quality		2417706-1		2417706-2		2417706-3		2417706-4		2417706-5		2417706-6		2417706-7	
08:00 PM - 09:00 PM		Air Quality		2417706-1		2417706-2		2417706-3		2417706-4		2417706-5		2417706-6		2417706-7	
09:00 PM - 10:00 PM		Air Quality		2417706-1		2417706-2		2417706-3		2417706-4		2417706-5		2417706-6		2417706-7	
10:00 PM - 11:00 PM		Air Quality		2417706-1		2417706-2		2417706-3		2417706-4		2417706-5		2417706-6		2417706-7	
11:00 PM - 12:00 AM		Air Quality		2417706-1		2417706-2		2417706-3		2417706-4		2417706-5		2417706-6		2417706-7	
12:00 AM - 01:00 AM		Air Quality		2417706-1		2417706-2		2417706-3		2417706-4		2417706-5		2417706-6		2417706-7	
01:00 AM - 02:00 AM		Air Quality		2417706-1		2417706-2		2417706-3		2417706-4		2417706-5		2417706-6		2417706-7	
02:00 AM - 03:00 AM		Air Quality		2417706-1		2417706-2		2417706-3		2417706-4		2417706-5		2417706-6		2417706-7	
03:00 AM - 04:00 AM		Air Quality		2417706-1		2417706-2		2417706-3		2417706-4		2417706-5		2417706-6		2417706-7	
04:00 AM - 05:00 AM		Air Quality		2417706-1		2417706-2		2417706-3		2417706-4		2417706-5		2417706-6		2417706-7	
05:00 AM - 06:00 AM		Air Quality		2417706-1		2417706-2		2417706-3		2417706-4		2417706-5		2417706-6		2417706-7	
06:00 AM - 07:00 AM		Air Quality		2417706-1		2417706-2		2417706-3		2417706-4		2417706-5		2417706-6		2417706-7	
07:00 AM - 08:00 AM		Air Quality		2417706-1		2417706-2		2417706-3		2417706-4		2417706-5		2417706-6		2417706-7	
08:00 AM - 09:00 AM		Air Quality		2417706-1		2417706-2		2417706-3		2417706-4		2417706-5		2417706-6		2417706-7	
09:00 AM - 10:00 AM		Air Quality		2417706-1		2417706-2		2417706-3		2417706-4		2417706-5		2417706-6		2417706-7	
Average		Air Quality		2417706-1		2417706-2		2417706-3		2417706-4		2417706-5		2417706-6		2417706-7	
1hr - Maximum		Air Quality		2417706-1		2417706-2		2417706-3		2417706-4		2417706-5		2417706-6		2417706-7	
Standard 1hr - Average		Air Quality		2417706-1		2417706-2		2417706-3		2417706-4		2417706-5		2417706-6		2417706-7	
Standard		Air Quality		2417706-1		2417706-2		2417706-3		2417706-4		2417706-5		2417706-6		2417706-7	
Reference Method		Air Quality		2417706-1		2417706-2		2417706-3		2417706-4		2417706-5		2417706-6		2417706-7	

Standard : Notification of the National Environment Board No. 33, 2009 (B.E. 2552).
Reference Method : US EPA Method Part 50 App. F (Chemiluminescence)

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Approved by

Orawan R.
Orawan Rakying
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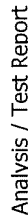


Analysis / Test Report

Client : Siam Polystyrene Co., Ltd.
8, Map Ta Phut Industrial Estate, 1-4 Road, Map ta phut, Muang, Rayong Thailand
21150
P/O : 4700033695
Project Name :
Project Location :
Lot ID: 2417709
Date Received : Jun 18, 2024
Date Reported : Jun 24, 2024
Report Number: 2911617-IC8

Page 1 of 1

Sample Description		Air Quality		สถานีตรวจวัดคุณภาพอากาศ (GPS: 479 0735346, 1406705)															
Location		Nitrogen dioxide (ppm)		กรุงเทพมหานคร															
Parameter		Jun 09, 2024 - Jun 16, 2024		Jun 09, 2024 - Jun 16, 2024															
Measurement Date		Chatchai Sripola		Chatchai Sripola															
Measurement by		Jun 09, 2024		Jun 10, 2024		Jun 11, 2024		Jun 12, 2024		Jun 13, 2024		Jun 14, 2024		Jun 15, 2024		Jun 16, 2024			
Time		11:00 AM - 12:00 PM		12:00 PM - 01:00 PM		01:00 PM - 02:00 PM		02:00 PM - 03:00 PM		03:00 PM - 04:00 PM		04:00 PM - 05:00 PM		05:00 PM - 06:00 PM		06:00 PM - 07:00 PM			
11:00 AM - 12:00 PM		0.021	0.009	0.008	0.007	0.008	0.006	0.008	0.007	0.008	0.006	0.007	0.008	0.006	0.007	0.008	0.006		
12:00 PM - 01:00 PM		0.016	0.008	0.008	0.007	0.007	0.007	0.007	0.007	0.007	0.006	0.006	0.006	0.006	0.005	0.007	0.003		
01:00 PM - 02:00 PM		0.012	0.008	0.008	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.005	0.004	0.002		
02:00 PM - 03:00 PM		0.008	0.010	0.007	0.007	0.008	0.009	0.009	0.009	0.009	0.006	0.005	0.008	0.008	0.005	0.002	0.002		
03:00 PM - 04:00 PM		0.009	0.008	0.008	0.008	0.008	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.008	0.004	0.004		
04:00 PM - 05:00 PM		0.005	0.008	0.007	0.007	0.007	0.010	0.010	0.010	0.010	0.009	0.009	0.008	0.008	0.008	0.004	0.004		
05:00 PM - 06:00 PM		0.004	0.007	0.007	0.007	0.007	0.012	0.012	0.012	0.010	0.010	0.010	0.010	0.010	0.010	0.006	0.006		
06:00 PM - 07:00 PM		0.006	0.008	0.008	0.010	0.010	0.015	0.015	0.015	0.012	0.018	0.018	0.018	0.018	0.018	0.006	0.006		
07:00 PM - 08:00 PM		0.010	0.011	0.012	0.012	0.012	0.013	0.013	0.013	0.018	0.022	0.022	0.020	0.020	0.020	0.008	0.008		
08:00 PM - 09:00 PM		0.012	0.019	0.018	0.018	0.020	0.023	0.023	0.023	0.018	0.021	0.021	0.018	0.018	0.017	0.003	0.003		
09:00 PM - 10:00 PM		0.013	0.020	0.020	0.020	0.020	0.023	0.023	0.023	0.012	0.021	0.021	0.018	0.018	0.017	0.002	0.002		
10:00 PM - 11:00 PM		0.010	0.015	0.015	0.019	0.015	0.019	0.019	0.019	0.009	0.016	0.016	0.017	0.017	0.019	0.002	0.002		
11:00 PM - 12:00 AM		0.009	0.009	0.014	0.014	0.009	0.014	0.014	0.014	0.014	0.011	0.011	0.019	0.019	0.019	0.002	0.002		
12:00 AM - 01:00 AM		0.009	0.011	0.011	0.011	0.011	0.012	0.012	0.012	0.008	0.008	0.014	0.014	0.014	0.014	0.002	0.002		
01:00 AM - 02:00 AM		0.011	0.010	0.010	0.010	0.010	0.010	0.010	0.012	0.007	0.007	0.014	0.014	0.014	0.014	0.002	0.002		
02:00 AM - 03:00 AM		0.011	0.011	0.014	0.014	0.014	0.013	0.013	0.013	0.015	0.015	0.015	0.007	0.007	0.007	0.002	0.002		
03:00 AM - 04:00 AM		0.011	0.010	0.010	0.007	0.007	0.013	0.013	0.013	0.012	0.012	0.012	0.012	0.012	0.012	0.002	0.002		
04:00 AM - 05:00 AM		0.007	0.006	0.015	0.015	0.015	0.015	0.015	0.015	0.008	0.008	0.008	0.006	0.006	0.006	0.002	0.002		
05:00 AM - 06:00 AM		0.008	0.011	0.010	0.010	0.010	0.014	0.014	0.014	0.005	0.005	0.005	0.004	0.004	0.004	0.002	0.002		
06:00 AM - 07:00 AM		0.007	0.014	0.009	0.014	0.009	0.013	0.013	0.013	0.013	0.013	0.013	0.002	0.002	0.002	0.002	0.002		
07:00 AM - 08:00 AM		0.008	0.018	0.014	0.014	0.014	0.012	0.012	0.012	0.010	0.010	0.010	0.004	0.004	0.004	0.002	0.002		
08:00 AM - 09:00 AM		0.011	0.016	0.016	0.011	0.011	0.014	0.014	0.014	0.011	0.011	0.011	0.005	0.005	0.005	0.003	0.003		
09:00 AM - 10:00 AM		0.011	0.012	0.012	0.012	0.012	0.015	0.015	0.015	0.013	0.013	0.013	0.007	0.007	0.007	0.003	0.003		
10:00 AM - 11:00 AM		0.013	0.015	0.015	0.012	0.012	0.012	0.013	0.013	0.010	0.010	0.010	0.009	0.009	0.009	0.006	0.006		
Average		0.010	0.011	0.012	0.012	0.012	0.012	0.012	0.012	0.011	0.011	0.011	0.010	0.010	0.010	0.004	0.004		
1hr - Maximum		0.021	0.020	0.023	0.018	0.022	0.018	0.022	0.022	0.022	0.022	0.022	0.020	0.020	0.020	0.008	0.008		
Standard 1hr - Average		0.170	0.170	0.170	0.170	0.170	0.170	0.170	0.170	0.170	0.170	0.170	0.170	0.170	0.170	0.170	0.170		



Sample Number	2417839-1 to 7
Parameter	Wind Speed / Wind Direction
Location	ห้วยน้ำริน/ตำบลหนองปรือ อำเภอบางใหญ่ จังหวัดนนทบุรี (GIS 47P 0731964, 1403752)
Sampling Date	Jun 09 - Jun 16, 2024
Sampling by	Chatchai Sukola

Time	Jun 09 - Jun 10, 2024												Jun 11 - Jun 12, 2024												Jun 13 - Jun 14, 2024												Jun 15 - Jun 16, 2024																
	WS			WD			WS			WD			WS			WD			WS			WD			WS			WD			WS			WD			WS			WD			WS			WD							
	(m/s)	(deg)		(m/s)	(deg)		(m/s)	(deg)		(m/s)	(deg)		(m/s)	(deg)		(m/s)	(deg)		(m/s)	(deg)		(m/s)	(deg)		(m/s)	(deg)		(m/s)	(deg)		(m/s)	(deg)		(m/s)	(deg)		(m/s)	(deg)		(m/s)	(deg)		(m/s)	(deg)									
11:00 AM - 12:00 PM	5.0	22.0	SW	2.1	25.0	WSW	2.1	216.0	SW	3.9	227.0	WSW	5.6	262.0	W	4.2	189.0	S	2.3	207.0	SSW																																
12:00 PM - 01:00 PM	4.8	249.0	WSW	3.6	223.0	SW	0.8	238.0	WSW	1.3	206.0	SSW	1.1	215.0	SW	1.0	169.0	S	3.4	206.0	SSW																																
01:00 PM - 02:00 PM	4.0	247.0	WSW	4.0	247.0	WSW	0.9	257.0	WSW	2.5	265.0	WSW	3.2	263.0	WSW	4.0	187.0	S	3.9	229.0	SW																																
02:00 PM - 03:00 PM	4.6	220.0	SW	0.4	231.0	SW	1.6	199.0	SSW	1.9	138.0	SE	1.7	207.0	SSW	5.2	227.0	SW	3.9	234.0	SW																																
03:00 PM - 04:00 PM	2.1	238.0	WSW	0.0	-	-	0.8	279.0	W	3.4	198.0	SSW	1.2	268.0	W	2.2	142.0	SE	3.6	229.0	SW																																
04:00 PM - 05:00 PM	4.0	222.0	SW	1.2	309.0	NW	0.5	233.0	SW	1.8	253.0	SW	1.5	220.0	SSW	0.9	129.0	SE	2.3	196.0	SSW																																
05:00 PM - 06:00 PM	5.2	293.0	NNW	0.0	-	-	0.1	-	-	3.0	235.0	SW	1.8	195.0	SSW	0.0	-	-	1.4	128.0	SE																																
06:00 PM - 07:00 PM	4.9	243.0	WSW	0.3	206.0	SSW	2.0	269.0	SSW	2.2	235.0	SW	0.6	299.0	W	1.6	216.0	SW	0.8	233.0	SW																																
07:00 PM - 08:00 PM	0.9	26.0	NNE	0.0	-	-	1.6	227.0	SW	0.0	-	-	2.0	27.0	SW	0.0	-	-	0.0	-	0.0	-																															
08:00 PM - 09:00 PM	5.1	255.0	WSW	0.0	-	-	0.4	238.0	SW	1.3	249.0	WSW	0.0	-	-	0.0	-	-	0.0	-	0.0	-																															
09:00 PM - 10:00 PM	1.0	256.0	WSW	0.0	-	-	0.0	-	-	1.9	225.0	SW	0.0	-	-	0.0	-	-	0.0	-	0.0	-																															
10:00 PM - 11:00 PM	1.5	278.0	W	0.0	-	-	0.0	-	-	3.7	239.0	WSW	0.0	-	-	0.0	-	-	0.0	-	0.0	-																															
11:00 PM - 12:00 AM	2.1	181.0	S	0.9	252.0	WSW	0.0	-	-	1.6	337.0	NNW	0.0	-	-	0.0	-	-	0.0	-	0.0	-																															
12:00 AM - 01:00 AM	1.3	229.0	SW	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	0.0	-																															
01:00 AM - 02:00 AM	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	0.0	-																															
02:00 AM - 03:00 AM	0.0	-	-	0.5	229.0	SW	0.0	-	-	0.0	-	-	0.5	346.0	NNW	0.0	-	-	0.0	-	0.0	-																															
03:00 AM - 04:00 AM	0.0	-	-	0.0	-	-	0.6	235.0	SW	0.0	-	-	0.0	-	-	0.3	312.0	NW	0.3	340.0	NNW																																
04:00 AM - 05:00 AM	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-	1.2	245.0	WSW	1.1	356.0	NNW																																
05:00 AM - 06:00 AM	0.9	222.0	SW	2.4	210.0	SSW	0.0	-	-	0.0	-	-	0.5	242.0	WSW	2.1	313.0	NW	1.4	315.0	NW																																
06:00 AM - 07:00 AM	1.1	230.0	SW	1.7	243.0	WSW	1.4	266.0	W	2.0	201.0	SSW	2.6	205.0	SSW	2.9	329.0	NNW	2.2	307.0	NNW																																
07:00 AM - 08:00 AM	1.3	231.0	SW	2.2	229.0	SW	4.0	229.0	SW	1.3	270.0	NNE	2.8	216.0	SW	3.5	271.0	W	1.8	303.0	NNW																																
08:00 AM - 09:00 AM	2.0	266.0	W	1.8	222.0	SW	3.6	258.0	WSW	1.5	231.0	SW	1.3	354.0	N	3.8	226.0	SW	2.1	287.0	NNW																																
09:00 AM - 10:00 AM	1.4	230.0	SW	0.8	242.0	WSW	4.0	239.0	WSW	4.4	246.0	WSW	4.9	216.0	SW	1.7	241.0	WSW	0.9	269.0	W																																
10:00 AM - 11:00 AM	0.8	150.0	SSE	3.1	232.0	SW	4.3	233.0	WSW	4.5	234.0	SW	2.4	226.0	SW	3.9	244.0	WSW	1.6	300.0	NNW																																

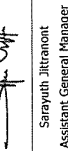
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Sarayuth Jittranont
Assistant General Manager

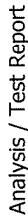
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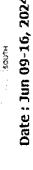
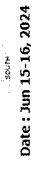
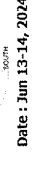
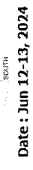
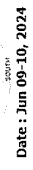


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Page 2 of 2

Wind Rose



WS (m/s)	%
≥ 10.0	0.00
8.0-10.0	0.00
5.5-8.0	0.60
3.3-5.5	16.07
1.7-3.3	21.43
0.3-1.7	29.76
Calm	32.14

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Approved by

Sarayuth Jitranont
Assistant General Manager

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Analysis / Test Report

Client : Siam Polystyrene Co., Ltd.
8, Map Ta Phut Industrial Estate, I-4 Road, Map ta phut, Muang, Rayong Thailand 21150

Lot ID: 2417710
Date Received :Jun 17, 2024
Date Reported :Jun 21, 2024
Report Number :2911620-1 C8

P/O : 4515073640
Project Name : Environmental Quality Monitoring
Project Location : Map Ta Phut_PS (SPCL)

Sample Number 2417710-1 to 7
Parameter Wind Speed / Wind Direction
Location บ้านท่าเรือ (โรงงานอุตสาหกรรมท่าเรือ) (GPS 4°17' 07.5531, 140°27' 69)
Sampling Date Jun 09 - Jun 16, 2024
Sampling by Chatchai Sukpla

Time	Jun 09 - Jun 10, 2024		Jun 10 - Jun 11, 2024		Jun 11 - Jun 12, 2024		Jun 12 - Jun 13, 2024		Jun 13 - Jun 14, 2024		Jun 14 - Jun 15, 2024		Jun 15 - Jun 16, 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)										
10:00 AM - 11:00 AM	2.1	130.0	SE	1.5	181.0	S	0.0	-	-	1.4	221.0	SW	1.7	270.0	W	4.5	270.0	W	2.6	208.0	SSW			
11:00 AM - 12:00 PM	2.5	114.0	ESE	4.5	197.0	SSW	1.9	249.0	WSW	0.7	201.0	SSW	1.2	265.0	W	3.0	248.0	WSW	3.6	230.0	SW			
12:00 PM - 01:00 PM	0.8	168.0	SSE	1.8	195.0	SSW	2.1	216.0	SW	1.6	220.0	SW	1.8	222.0	SW	2.1	212.0	SSW	4.6	219.0	SW			
01:00 PM - 02:00 PM	0.7	261.0	W	3.4	211.0	SSW	1.7	244.0	WSW	0.7	241.0	WSW	1.6	192.0	SSW	1.4	193.0	SSW	2.5	206.0	SSW			
02:00 PM - 03:00 PM	0.4	265.0	WSW	0.0	-	-	1.9	203.0	SSW	2.3	157.0	SSE	2.0	229.0	SW	0.5	259.0	W	0.8	241.0	WSW			
03:00 PM - 04:00 PM	1.1	246.0	WSW	1.3	185.0	S	1.9	69.0	ESE	0.4	247.0	WSW	0.7	194.0	S	2.3	247.0	WSW	2.2	217.0	SW			
04:00 PM - 05:00 PM	0.4	190.0	S	0.4	234.0	SW	4.4	307.0	NW	0.0	-	-	0.0	-	-	0.7	209.0	SSW	1.2	257.0	WSW	2.0	209.0	SSW
05:00 PM - 06:00 PM	0.8	171.0	S	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-	1.1	241.0	WSW	0.3	247.0	WSW	0.0	-	WSW
06:00 PM - 07:00 PM	1.4	268.0	W	0.0	-	-	0.1	-	-	0.0	-	-	0.0	-	-	2.2	178.0	S	1.0	246.0	WSW	0.0	-	SSW
07:00 PM - 08:00 PM	2.4	194.0	SSW	0.7	227.0	WSW	0.5	228.0	SW	3.8	253.0	WSW	1.5	230.0	SW	0.0	-	-	0.6	203.0	SSW	-	-	SSW
08:00 PM - 09:00 PM	3.1	229.0	SW	0.0	-	-	1.6	272.0	W	0.0	-	-	0.0	-	-	0.0	-	-	0.3	201.0	SSW	-	-	SSW
09:00 PM - 10:00 PM	0.8	30.0	NNE	2.7	253.0	WSW	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-	0.8	255.0	WSW	-	-	WSW
10:00 PM - 11:00 PM	1.4	240.0	WSW	0.4	229.0	SW	0.0	-	-	1.2	246.0	WSW	1.2	224.0	SW	0.2	-	-	0.0	-	-	-	-	-
11:00 PM - 12:00 AM	0.0	-	-	3.8	230.0	SW	0.0	-	-	2.1	268.0	W	0.7	240.0	WSW	1.8	192.0	SSW	2.3	210.0	SSW	-	-	-
12:00 AM - 01:00 AM	1.5	202.0	SSW	1.1	189.0	S	0.0	-	-	0.0	-	-	1.3	290.0	NNW	1.3	261.0	W	0.0	-	-	-	-	-
01:00 AM - 02:00 AM	0.0	-	-	1.8	239.0	WSW	0.7	223.0	SW	1.6	273.0	W	2.6	297.0	NNW	1.7	230.0	SW	1.3	255.0	WSW	-	-	-
02:00 AM - 03:00 AM	0.5	158.0	SSW	1.2	164.0	SSE	0.8	209.0	SSW	0.0	-	-	0.8	230.0	SW	1.5	250.0	WSW	0.7	253.0	WSW	-	-	-
03:00 AM - 04:00 AM	2.1	259.0	WSW	0.7	160.0	SSE	0.0	-	-	0.0	-	-	1.6	268.0	W	1.0	237.0	WSW	1.7	241.0	WSW	-	-	-
04:00 AM - 05:00 AM	0.0	-	-	2.4	160.0	SSE	0.4	209.0	SSW	0.3	254.0	WSW	0.0	-	-	1.1	266.0	W	0.9	241.0	WSW	-	-	-
05:00 AM - 06:00 AM	1.5	152.0	SSW	0.9	210.0	SSW	0.9	178.0	S	0.8	104.0	ESE	0.0	-	-	0.0	-	-	0.0	-	-	-	-	-
06:00 AM - 07:00 AM	4.3	220.0	SW	0.0	-	-	0.0	-	-	0.6	365.0	NW	0.0	-	-	1.4	239.0	WSW	0.8	242.0	WSW	-	-	-
07:00 AM - 08:00 AM	2.5	159.0	SSE	2.9	213.0	SSW	2.1	240.0	WSW	2.0	231.0	SW	0.3	215.0	SW	0.6	304.0	NW	0.1	-	-	-	-	-
08:00 AM - 09:00 AM	0.5	172.0	S	1.2	188.0	S	1.7	224.0	SW	0.6	246.0	WSW	1.2	183.0	S	1.0	184.0	S	1.6	245.0	WSW	-	-	-
09:00 AM - 10:00 AM	1.5	132.0	SE	3.5	191.0	S	2.8	251.0	WSW	3.1	212.0	SSW	1.4	185.0	S	1.0	226.0	SW	1.8	240.0	WSW	-	-	-

Reference Method : Cup Anemometer & Anodized Aluminium Vane Method

The above results are valid only for the analyzed samples. No other results are valid unless confirmed from the laboratory. ALS Laboratory Group (Thailand) Ltd. strongly recommends that this report is not reproduced except in full.

Approved by

Sirayuth Jitranont
Assistant General Manager

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Approved by

Sirayuth Jitranont
Assistant General Manager

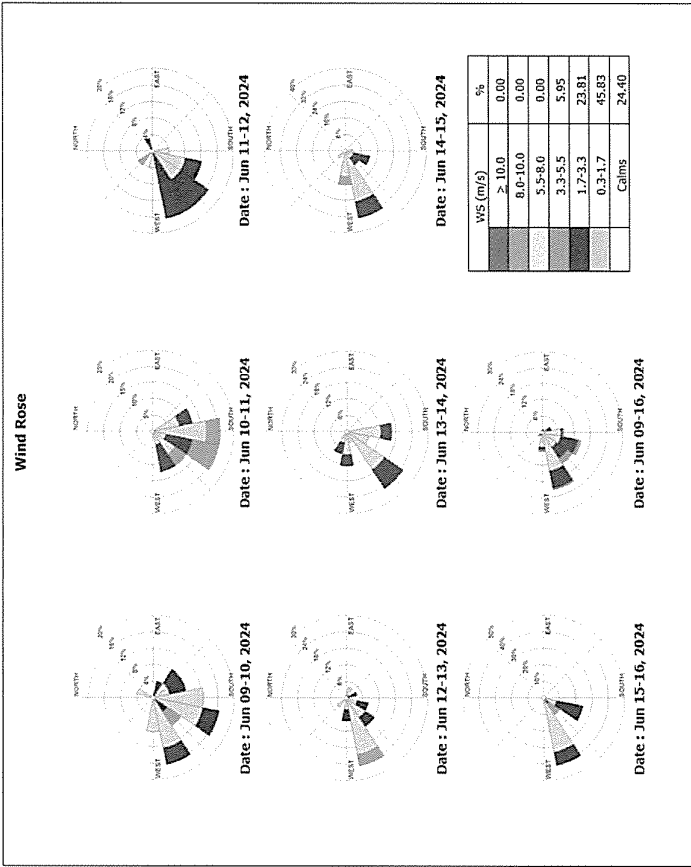


Analysis / Test Report

Client : Siam Polystyrene Co., Ltd.
8, Map Ta Phut Industrial Estate, I-4 Road, Map ta phut, Muang, Rayong Thailand 21150

Lot ID: 2417710
Date Received :Jun 17, 2024
Date Reported :Jun 21, 2024
Report Number :2911620-1 C8

P/O : 4515073640
Project Name : Environmental Quality Monitoring
Project Location : Map Ta Phut_PS (SPCL)



ADDRESS: ALG/10 Moo 5 T. Muang Khut A. Bhalakhamo Rayong 21140 Thailand. PHONE: 466.0 1304 BSCG. FAX: 466.0 1304 BSCG.
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Analysis / Test Report

Client : Sam Polystyrene Co., Ltd.
8, Map Ta Phut Industrial Estate, 1-4 Road, Map ta phut, Muang, Rayong Thailand 21150
P/O : 4515073640
Project Name : Environmental Quality Monitoring
Project Location : Map Ta Phut_PS (SPCL)
Lot ID: 241711
Date Received : Jun 17, 2024
Date Reported : Jun 21, 2024
Report Number : 2911663-1 C8

Sample Number : 241711-1 to 7
Parameter : Wind Speed / Wind Direction
Location : ชลประทาน (GPS 479 0735346, 1406705)
Sampling Date : Jun 09 - Jun 16, 2024
Sampling by : Chatchai Sukpa

Time	Jun 09 - Jun 10, 2024		Jun 10 - Jun 11, 2024		Jun 11 - Jun 12, 2024		Jun 12 - Jun 13, 2024		Jun 13 - Jun 14, 2024		Jun 14 - Jun 15, 2024		Jun 15 - Jun 16, 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)							
11:00 AM - 12:00 PM	1.4	207.0	SSW	1.1	311.0	NW	0.6	287.0	WNW	0.5	307.0	NW	1.3	263.0	W	2.2	282.0	WNW	1.8	239.0	WSW
12:00 PM - 01:00 PM	1.6	257.0	WSW	2.7	252.0	WSW	1.1	279.0	W	1.5	265.0	W	1.3	291.0	WNW	1.8	239.0	WNW	4.2	272.0	W
01:00 PM - 02:00 PM	1.7	284.0	WNW	2.9	241.0	WSW	2.2	249.0	WSW	1.0	281.0	W	1.5	332.0	NNW	1.6	242.0	WSW	4.2	272.0	W
02:00 PM - 03:00 PM	2.1	286.0	WNW	1.8	237.0	WSW	2.1	297.0	WNW	1.1	284.0	WNW	1.5	309.0	NW	3.8	220.0	SW	1.2	316.0	NW
03:00 PM - 04:00 PM	0.8	46.0	NE	1.6	280.0	W	1.1	274.0	W	1.0	326.0	NW	3.4	276.0	W	1.4	256.0	WSW	2.6	275.0	WNW
04:00 PM - 05:00 PM	1.3	338.0	NNW	1.0	310.0	NW	1.4	249.0	WSW	1.2	294.0	WNW	0.7	293.0	WNW	1.1	300.0	WNW	6.9	275.0	W
05:00 PM - 06:00 PM	0.6	202.0	SSW	1.9	280.0	W	0.4	301.0	WNW	0.5	285.0	WNW	0.5	297.0	WNW	0.7	283.0	WNW	0.9	257.0	WSW
06:00 PM - 07:00 PM	2.5	316.0	NW	1.5	294.0	WNW	0.7	68.0	ENE	0.8	284.0	WNW	0.4	314.0	NW	0.6	290.0	WNW	0.4	226.0	SW
07:00 PM - 08:00 PM	2.1	332.0	NNW	1.1	270.0	W	0.0	-	0.7	307.0	NW	0.8	286.0	WNW	0.5	300.0	WNW	0.3	294.0	WNW	SW
08:00 PM - 09:00 PM	1.1	301.0	WNW	1.3	276.0	W	2.3	234.0	SW	0.7	278.0	W	2.7	294.0	WNW	0.0	-	-	1.7	263.0	W
09:00 PM - 10:00 PM	0.9	299.0	WNW	0.6	289.0	WNW	1.2	238.0	WSW	0.3	284.0	WNW	0.5	255.0	WSW	1.1	309.0	NW	1.0	315.0	NW
10:00 PM - 11:00 PM	1.0	315.0	NW	1.6	279.0	W	0.5	291.0	WNW	1.6	275.0	W	1.9	230.0	SW	2.5	276.0	W	0.9	281.0	NW
11:00 PM - 12:00 AM	2.1	256.0	WSW	1.6	343.0	NNW	0.0	-	0.8	297.0	WNW	1.1	318.0	NW	0.4	300.0	WNW	1.0	310.0	NW	NW
12:00 AM - 01:00 AM	2.4	288.0	WNW	1.9	327.0	NNW	0.0	-	1.0	394.0	NW	0.7	286.0	WNW	0.6	310.0	NW	0.5	283.0	WNW	SW
01:00 AM - 02:00 AM	1.6	294.0	WNW	1.0	320.0	NW	1.7	318.0	NW	0.5	281.0	W	0.0	-	0.5	298.0	WNW	0.4	292.0	WNW	WNW
02:00 AM - 03:00 AM	1.5	291.0	WNW	0.8	282.0	SW	0.0	-	0.8	296.0	WNW	0.8	359.0	N	0.8	309.0	NW	0.5	65.0	ENE	ENE
03:00 AM - 04:00 AM	4.4	300.0	WNW	1.6	265.0	W	0.5	287.0	WNW	1.5	318.0	NW	0.7	283.0	WNW	1.7	77.0	ENE	3.0	282.0	NW
04:00 AM - 05:00 AM	1.0	273.0	W	2.8	345.0	NNW	0.0	-	0.1	-	-	0.5	320.0	NW	1.1	288.0	WNW	2.2	230	NNE	NNE
05:00 AM - 06:00 AM	1.4	243.0	WSW	1.4	230.0	SW	3.5	331.0	NNW	0.3	276.0	W	0.0	-	0.5	301.0	WNW	1.0	316.0	NW	NW
06:00 AM - 07:00 AM	0.9	317.0	NW	0.9	294.0	WNW	1.5	283.0	WNW	1.4	272.0	W	1.0	289.0	WNW	1.3	48.0	NE	0.6	327.0	WNW
07:00 AM - 08:00 AM	1.1	288.0	WNW	0.8	258.0	WSW	0.8	270.0	W	1.6	322.0	NW	1.2	275.0	W	0.5	299.0	WNW	0.9	231.0	SW
08:00 AM - 09:00 AM	2.5	280.0	W	1.6	287.0	WNW	0.7	301.0	WNW	0.9	301.0	NW	0.8	287.0	WNW	0.7	300.0	WNW	2.6	260	NNE
09:00 AM - 10:00 AM	1.7	394.0	NW	1.6	254.0	WSW	0.9	298.0	WNW	0.8	290.0	WNW	0.6	274.0	W	1.0	244.0	WSW	1.2	38.0	NE
10:00 AM - 11:00 AM	4.0	237.0	WSW	2.8	247.0	WSW	1.6	239.0	WSW	1.5	280.0	W	1.6	277.0	W	1.2	268.0	W	2.2	46.0	NF

Reference Method : Cup Anemometer & Anodized Aluminium Vane Method

The above results are valid only for the unadorned sample(s) as indicated in the Laboratory Report. The results are not valid for any other sample(s) without the consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

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Sirayuth Jitrantont

Assistant General Manager

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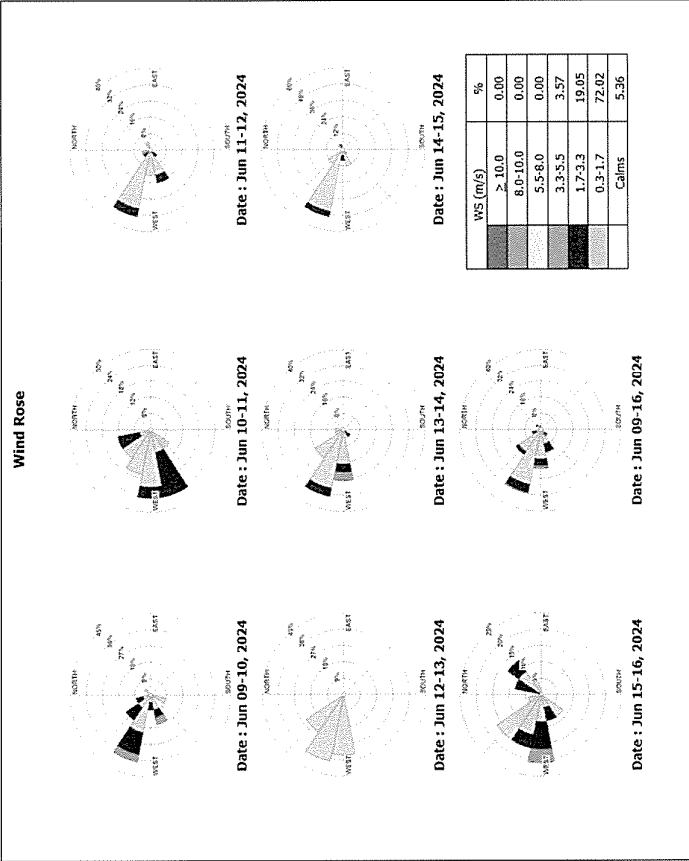
LIFE SCIENCES



Analysis / Test Report

Client : Sam Polystyrene Co., Ltd.
8, Map Ta Phut Industrial Estate, 1-4 Road, Map ta phut, Muang, Rayong Thailand 21150
P/O : 4515073640
Project Name : Environmental Quality Monitoring
Project Location : Map Ta Phut_PS (SPCL)
Lot ID: 241711
Date Received : Jun 17, 2024
Date Reported : Jun 21, 2024
Report Number : 2911663-1 C8

Page 2 of 2



The above results are valid only for the unadorned sample(s) as indicated in the Laboratory Report. The results are not valid for any other sample(s) without the consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

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Sirayuth Jitrantont

Assistant General Manager

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LIFE SCIENCES

ภาคผนวก ค-3

ระดับเสียงโดยทั่วไป



Analysis / Test Report

TESTING
No.0042

Lot ID: 2417889

Date Received : Jun 10, 2024
Date Reported : Jun 14, 2024
Report Number: 3024244-1



Client : Siam Polystyrene Co., Ltd.
8, Map Ta Phut Industrial Estate, I-4 Road, Map ta phut, Muang, Rayong Thailand 21150
P/O : 4515755108
Project Name : Environmental Quality Monitoring
Project Location : Map Ta Phut_PS (SFCL)

Page 1 of 1

Sample Number 2417889-1
Parameter Noise (Leq 24 hrs.)
Location ต.นาเกลือ ต.นาเกลือ (GPS 47P 0735038, 1405843)
Measurement Date May 31 - Jun 01, 2024
Measurement by Jitakorn Siwasa
Sound Level meter Serial No. 1122578

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
05:00 PM - 06:00 PM	59.6	72.1	54.8
06:00 PM - 07:00 PM	55.2	73.4	52.6
07:00 PM - 08:00 PM	56.1	74.3	52.6
08:00 PM - 09:00 PM	57.4	80.8	53.4
09:00 PM - 10:00 PM	55.4	79.5	51.3
10:00 PM - 11:00 PM	53.9	64.3	51.4
11:00 PM - 12:00 AM	51.6	60.2	50.0
12:00 AM - 01:00 AM	55.7	70.2	50.5
01:00 AM - 02:00 AM	58.3	65.6	50.8
02:00 AM - 03:00 AM	58.7	64.0	52.5
03:00 AM - 04:00 AM	54.8	63.1	49.8
04:00 AM - 05:00 AM	50.6	63.1	48.9
05:00 AM - 06:00 AM	53.8	81.4	50.8
06:00 AM - 07:00 AM	55.3	76.9	52.4
07:00 AM - 08:00 AM	55.1	75.1	52.0
08:00 AM - 09:00 AM	59.7	84.8	54.6
09:00 AM - 10:00 AM	56.5	75.1	53.1
10:00 AM - 11:00 AM	53.1	73.3	52.2
11:00 AM - 12:00 PM	56.7	82.7	52.2
12:00 PM - 01:00 PM	54.5	79.6	51.1
01:00 PM - 02:00 PM	54.6	68.8	51.5
02:00 PM - 03:00 PM	53.1	70.1	50.3
03:00 PM - 04:00 PM	54.6	70.9	51.0
04:00 PM - 05:00 PM	56.2	74.2	53.2
Leq Average 24 hrs. (dB(A))	56.1	87.1	51.5
Lmax (dB(A))			
L90 (dB(A))	62.1		
Ldn (dB(A))	70	115	

Reference Method : ISO1996-1 and 1996-2

Standard : 1. ใช้มาตรฐานวิธีมาตรฐานวิธีวัดเสียงตามข้อกำหนด 15 (พ.ศ. 2546) สำหรับอาคารโรงงานอุตสาหกรรม
2. ใช้มาตรฐานวิธีมาตรฐานวิธีวัดเสียงตามข้อกำหนด 15 (พ.ศ. 2546) สำหรับอาคารโรงงานอุตสาหกรรม

Issued on: 2548

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

Tharitat.

Technical Management
Tharitat Kulnirong
Scientist (4)

Supt S.

Approved by
Supt Salameh
Section Head

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7781-31/ EMAIL

S (Report)_Air Noise rpt (7.254M)



Analysis / Test Report

TESTING
No.0042

Lot ID: 2417889

Date Received : Jun 10, 2024
Date Reported : Jun 14, 2024
Report Number: 3024245-1



Client : Siam Polystyrene Co., Ltd.
8, Map Ta Phut Industrial Estate, I-4 Road, Map ta phut, Muang, Rayong Thailand 21150
P/O : 4515755108
Project Name : Environmental Quality Monitoring
Project Location : Map Ta Phut_PS (SFCL)

Page 1 of 1

Sample Number 2417889-2
Parameter Noise (Leq 24 hrs.)
Location ต.นาเกลือ ต.นาเกลือ (GPS 47P 0735038, 1405843)
Measurement Date Jun 01 - Jun 02, 2024
Measurement by Jitakorn Siwasa
Sound Level meter Serial No. 1122578

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
05:00 PM - 06:00 PM	57.9	75.0	54.1
06:00 PM - 07:00 PM	59.9	76.1	58.1
07:00 PM - 08:00 PM	56.5	72.0	54.9
08:00 PM - 09:00 PM	60.7	68.9	60.1
09:00 PM - 10:00 PM	58.1	70.7	57.0
10:00 PM - 11:00 PM	61.9	75.5	61.1
11:00 PM - 12:00 AM	64.0	77.6	63.3
12:00 AM - 01:00 AM	66.5	78.1	65.9
01:00 AM - 02:00 AM	64.9	77.6	64.2
02:00 AM - 03:00 AM	64.1	77.8	64.4
03:00 AM - 04:00 AM	59.4	75.4	63.7
04:00 AM - 05:00 AM	59.4	79.6	58.6
05:00 AM - 06:00 AM	56.9	72.6	55.8
06:00 AM - 07:00 AM	58.4	70.7	54.5
07:00 AM - 08:00 AM	56.3	72.5	55.5
08:00 AM - 09:00 AM	54.3	68.6	53.3
09:00 AM - 10:00 AM	55.0	67.6	51.8
10:00 AM - 11:00 AM	55.3	74.3	52.3
11:00 AM - 12:00 PM	55.3	71.2	53.6
12:00 PM - 01:00 PM	56.0	80.4	52.3
01:00 PM - 02:00 PM	54.4	67.9	51.7
02:00 PM - 03:00 PM	53.2	71.2	51.0
03:00 PM - 04:00 PM	55.2	71.7	52.3
04:00 PM - 05:00 PM			
Leq Average 24 hrs. (dB(A))	60.5	80.4	54.9
Lmax (dB(A))			
L90 (dB(A))	69.2		
Ldn (dB(A))	70	115	

Reference Method : ISO1996-1 and 1996-2

Standard : 1. ใช้มาตรฐานวิธีมาตรฐานวิธีวัดเสียงตามข้อกำหนด 15 (พ.ศ. 2546) สำหรับอาคารโรงงานอุตสาหกรรม
2. ใช้มาตรฐานวิธีมาตรฐานวิธีวัดเสียงตามข้อกำหนด 15 (พ.ศ. 2546) สำหรับอาคารโรงงานอุตสาหกรรม

Issued on: 2548

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

Tharitat.

Technical Management
Tharitat Kulnirong
Scientist (4)

Supt S.

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Supt Salameh
Section Head

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7781-31/ EMAIL

S (Report)_Air Noise rpt (7.254M)



Analysis / Test Report

TESTING
No.0042

Lot ID: 2417889

Date Received : Jun 10, 2024
Date Reported : Jun 14, 2024
Report Number: 3024246-1



Client : Siam Polystyrene Co., Ltd.
8, Map Ta Phut Industrial Estate, 1-4 Road, Map ta phut, Muang, Rayong Thailand 21150
P/O : 4515755108
Project Name : Environmental Quality Monitoring
Project Location : Map Ta Phut_PS (SPCL)

Page 1 of 1

Sample Number	2417889-3
Parameter	Noise (Leq 24 hrs.)
Location	ชุมชนบ้านนา (GPS 47P 0735038, 1405843)
Measurement Date	Jun 02 - Jun 03, 2024
Measurement by	Jitakorn Siwasa
Sound Level meter	Serial No. 1122578

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
05:00 PM - 06:00 PM	58.0	81.7	52.8
06:00 PM - 07:00 PM	57.5	73.3	54.4
07:00 PM - 08:00 PM	52.8	74.3	51.3
08:00 PM - 09:00 PM	53.5	72.0	51.1
09:00 PM - 10:00 PM	54.3	77.7	50.5
10:00 PM - 11:00 PM	55.1	80.9	50.7
11:00 PM - 12:00 AM	53.6	67.6	51.4
12:00 AM - 01:00 AM	54.8	67.4	52.1
01:00 AM - 02:00 AM	54.2	72.4	51.2
02:00 AM - 03:00 AM	52.5	66.5	50.7
03:00 AM - 04:00 AM	51.7	71.7	49.0
04:00 AM - 05:00 AM	50.2	64.0	49.1
05:00 AM - 06:00 AM	54.0	73.8	51.2
06:00 AM - 07:00 AM	54.3	72.5	51.3
07:00 AM - 08:00 AM	56.6	73.3	51.7
08:00 AM - 09:00 AM	55.4	70.3	51.4
09:00 AM - 10:00 AM	55.4	78.2	52.1
10:00 AM - 11:00 AM	54.6	71.5	51.1
11:00 AM - 12:00 PM	55.5	79.9	50.9
12:00 PM - 01:00 PM	54.2	76.8	50.6
01:00 PM - 02:00 PM	55.0	79.1	49.7
02:00 PM - 03:00 PM	54.3	75.6	49.7
03:00 PM - 04:00 PM	53.9	78.9	49.3
04:00 PM - 05:00 PM	53.9	75.7	50.3

Leq Average 24 hrs. (dB(A))	54.7
Lmax (dB(A))	81.7
L90 (dB(A))	51.1
Ldn (dB(A))	60.3
Standard (dB(A))	70

Reference Method : ISO1996-1 and 1996-2
Standard : 1. กรมควบคุมมลพิษของประเทศไทย ฉบับแก้ไขล่าสุด ฉบับที่ 15 (พ.ศ. 2540) เรื่องการควบคุมระดับเสียงในชุมชน
2. กรมควบคุมมลพิษของประเทศไทย ฉบับแก้ไขล่าสุด ฉบับที่ 15 (พ.ศ. 2540) เรื่องการควบคุมระดับเสียงในชุมชน
โดยกรมควบคุมมลพิษ

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

Technical Management : *Thanitak.* Approved by : *Supt S.*
Thanita Kulsurwong Scientist (4) Supot Salameh Section Head

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7781-31/ENAL S:\Report_Air Noise pr (7.25AM)



Analysis / Test Report

TESTING
No.0042

Lot ID: 2417889

Date Received : Jun 10, 2024
Date Reported : Jun 14, 2024
Report Number: 3024247-1



Client : Siam Polystyrene Co., Ltd.
8, Map Ta Phut Industrial Estate, 1-4 Road, Map ta phut, Muang, Rayong Thailand 21150
P/O : 4515755108
Project Name : Environmental Quality Monitoring
Project Location : Map Ta Phut_PS (SPCL)

Page 1 of 1

Sample Number	2417889-4
Parameter	Noise (Leq 24 hrs.)
Location	ชุมชนบ้านนา (GPS 47P 0735038, 1405843)
Measurement Date	Jun 03 - Jun 04, 2024
Measurement by	Jitakorn Siwasa
Sound Level meter	Serial No. 1122578

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
05:00 PM - 06:00 PM	55.8	78.5	50.9
06:00 PM - 07:00 PM	53.5	73.1	50.9
07:00 PM - 08:00 PM	54.4	84.8	50.2
08:00 PM - 09:00 PM	52.5	72.6	49.5
09:00 PM - 10:00 PM	51.4	71.4	48.9
10:00 PM - 11:00 PM	50.9	69.1	49.7
11:00 PM - 12:00 AM	51.9	62.8	50.7
12:00 AM - 01:00 AM	51.2	71.4	51.2
01:00 AM - 02:00 AM	51.2	60.5	49.2
02:00 AM - 03:00 AM	52.1	67.5	50.1
03:00 AM - 04:00 AM	51.1	65.0	49.4
04:00 AM - 05:00 AM	52.2	64.6	49.7
05:00 AM - 06:00 AM	54.3	73.3	51.3
06:00 AM - 07:00 AM	55.7	73.3	51.7
07:00 AM - 08:00 AM	54.9	71.5	52.0
08:00 AM - 09:00 AM	53.2	68.6	50.8
09:00 AM - 10:00 AM	54.8	76.4	51.5
10:00 AM - 11:00 AM	55.9	72.0	50.7
11:00 AM - 12:00 PM	56.9	78.5	52.0
12:00 PM - 01:00 PM	56.0	72.1	51.3
01:00 PM - 02:00 PM	53.0	70.6	50.7
02:00 PM - 03:00 PM	53.4	79.5	49.8
03:00 PM - 04:00 PM	53.1	64.1	50.6
04:00 PM - 05:00 PM	55.6	75.7	51.4

Leq Average 24 hrs. (dB(A))	54.0
Lmax (dB(A))	84.8
L90 (dB(A))	50.7
Ldn (dB(A))	59.5
Standard (dB(A))	70

Reference Method : ISO1996-1 and 1996-2
Standard : 1. กรมควบคุมมลพิษของประเทศไทย ฉบับแก้ไขล่าสุด ฉบับที่ 15 (พ.ศ. 2540) เรื่องการควบคุมระดับเสียงในชุมชน
2. กรมควบคุมมลพิษของประเทศไทย ฉบับแก้ไขล่าสุด ฉบับที่ 15 (พ.ศ. 2540) เรื่องการควบคุมระดับเสียงในชุมชน
โดยกรมควบคุมมลพิษ

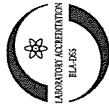
Remark : The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management : *Thanitak.* Approved by : *Supt S.*
Thanita Kulsurwong Scientist (4) Supot Salameh Section Head

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



7781-31/ENAL S:\Report_Air Noise pr (7.26AM)



Analysis / Test Report

Client : Siam Polystyrene Co., Ltd.
8, Map Ta Phut Industrial Estate, I-4 Road, Map ta phut, Muang, Rayong Thailand 21150
P/O : 4515755108
Project Name : Environmental Quality Monitoring
Project Location : Map Ta Phut_PS (SPCL)

TESTING
No.0042
Lot ID: 2417889
Date Received : Jun 10, 2024
Date Reported : Jun 14, 2024
Report Number: 3024248-1

Page 1 of 1

Sample Number	2417889-5
Parameter	Noise (Leq 24 hrs.)
Location	ถนนในตำบล (GPS 47P 0735038, 1405843)
Measurement Date	Jun 04 - Jun 05, 2024
Measurement by	Jittakorn Siwasa
Sound Level meter	Serial No. 1122578

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
05:00 PM - 06:00 PM	54.7	73.1	51.7
06:00 PM - 07:00 PM	56.7	75.5	52.4
07:00 PM - 08:00 PM	52.7	74.4	49.1
08:00 PM - 09:00 PM	51.4	66.1	49.1
09:00 PM - 10:00 PM	52.7	72.6	48.4
10:00 PM - 11:00 PM	50.3	68.0	48.2
11:00 PM - 12:00 AM	50.4	68.6	48.2
12:00 AM - 01:00 AM	50.3	67.1	48.7
01:00 AM - 02:00 AM	50.2	73.8	48.1
02:00 AM - 03:00 AM	50.0	76.6	48.3
03:00 AM - 04:00 AM	50.7	58.8	49.0
04:00 AM - 05:00 AM	51.4	75.1	49.0
05:00 AM - 06:00 AM	53.3	66.9	50.5
06:00 AM - 07:00 AM	55.5	71.6	52.1
07:00 AM - 08:00 AM	55.3	72.2	52.4
08:00 AM - 09:00 AM	54.9	79.1	50.6
09:00 AM - 10:00 AM	53.5	71.0	51.0
10:00 AM - 11:00 AM	52.3	75.3	49.4
11:00 AM - 12:00 PM	54.5	81.0	49.8
12:00 PM - 01:00 PM	54.5	78.9	53.0
01:00 PM - 02:00 PM	56.5	74.0	53.3
02:00 PM - 03:00 PM	57.7	67.7	53.0
03:00 PM - 04:00 PM	57.7	74.9	53.1
04:00 PM - 05:00 PM	58.6	74.9	54.5
Leq Average 24 hrs. (dB(A))	54.3		
Lmax (dB(A))	81.0		
L90 (dB(A))	58.9		49.8
Ldn (dB(A))	70	115	

Standard (dB(A))
Reference Method : ISO1996-1 and 1996-2
Standard : 1. ปริมาณการจราจรและยานพาหนะในถนน 15 (ก.ม. 2540) สำหรับพื้นที่ชุมชนและพื้นที่อยู่อาศัย
2. ปริมาณการจราจรและยานพาหนะในถนน 15 (ก.ม. 2540) สำหรับพื้นที่ชุมชนและพื้นที่อยู่อาศัย

Technical Management
Thantila Kulsurwong
Scientist (4)

Approved by
Supt S.
Supt Salameh
Section Head

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S Report_Air Noise pr (7.26AM)



Analysis / Test Report

Client : Siam Polystyrene Co., Ltd.
8, Map Ta Phut Industrial Estate, I-4 Road, Map ta phut, Muang, Rayong Thailand 21150
P/O : 4515755108
Project Name : Environmental Quality Monitoring
Project Location : Map Ta Phut_PS (SPCL)

TESTING
No.0042
Lot ID: 2417889
Date Received : Jun 10, 2024
Date Reported : Jun 14, 2024
Report Number: 3024249-1

Page 1 of 1

Sample Number	2417889-6
Parameter	Noise (Leq 24 hrs.)
Location	ถนนในตำบล (GPS 47P 0735038, 1405843)
Measurement Date	Jun 05 - Jun 06, 2024
Measurement by	Jittakorn Siwasa
Sound Level meter	Serial No. 1122578

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
05:00 PM - 06:00 PM	54.3	76.6	51.8
06:00 PM - 07:00 PM	56.1	82.5	52.4
07:00 PM - 08:00 PM	52.4	70.3	50.8
08:00 PM - 09:00 PM	52.8	74.9	50.4
09:00 PM - 10:00 PM	53.1	74.3	50.3
10:00 PM - 11:00 PM	53.3	77.9	49.9
11:00 PM - 12:00 AM	53.4	64.4	50.1
12:00 AM - 01:00 AM	54.2	70.3	51.0
01:00 AM - 02:00 AM	54.0	65.1	52.8
02:00 AM - 03:00 AM	51.1	59.6	50.4
03:00 AM - 04:00 AM	51.2	67.8	50.4
04:00 AM - 05:00 AM	51.6	63.7	50.4
05:00 AM - 06:00 AM	55.7	79.9	51.3
06:00 AM - 07:00 AM	55.4	72.2	52.7
07:00 AM - 08:00 AM	56.0	74.0	52.8
08:00 AM - 09:00 AM	56.4	79.7	51.9
09:00 AM - 10:00 AM	54.5	73.3	51.4
10:00 AM - 11:00 AM	56.0	79.3	51.6
11:00 AM - 12:00 PM	53.7	70.3	51.1
12:00 PM - 01:00 PM	55.7	73.6	53.3
01:00 PM - 02:00 PM	56.6	71.7	53.0
02:00 PM - 03:00 PM	55.8	69.3	53.0
03:00 PM - 04:00 PM	54.6	78.8	50.9
04:00 PM - 05:00 PM	54.5	70.7	51.3
Leq Average 24 hrs. (dB(A))	54.6	82.5	
Lmax (dB(A))			51.3
L90 (dB(A))	60.2		
Ldn (dB(A))	70	115	

Standard (dB(A))
Reference Method : ISO1996-1 and 1996-2
Standard : 1. ปริมาณการจราจรและยานพาหนะในถนน 15 (ก.ม. 2540) สำหรับพื้นที่ชุมชนและพื้นที่อยู่อาศัย
2. ปริมาณการจราจรและยานพาหนะในถนน 15 (ก.ม. 2540) สำหรับพื้นที่ชุมชนและพื้นที่อยู่อาศัย

Technical Management
Thantila Kulsurwong
Scientist (4)

Approved by
Supt S.
Supt Salameh
Section Head

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S Report_Air Noise pr (7.26AM)



Analysis / Test Report

Client : Siam Polystyrene Co., Ltd.
8, Map Ta Phut Industrial Estate, I-4 Road, Map ta phut, Muang, Rayong Thailand 21150
P/O : 4515755108
Project Name : Environmental Quality Monitoring
Project Location : Map Ta Phut_PS (SPCL)

Lot ID: 2417889
Date Received : Jun 10, 2024
Date Reported : Jun 14, 2024
Report Number: 3024250-1



TESTING
No.0042

Page 1 of 1

Sample Number	2417889-7
Parameter	Noise (Leq 24 hrs.)
Location	ถนนวิภาวดี (จุดวัดทางเข้าเขตชุมชน) (GPS 47P 0735038, 1405843)
Measurement Date	Jun 06 - Jun 07, 2024
Measurement by	Jittakorn Siwasa
Sound Level meter	Serial No. 1122578

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
05:00 PM - 06:00 PM	53.4	72.6	50.4
06:00 PM - 07:00 PM	53.8	75.4	51.8
07:00 PM - 08:00 PM	53.4	72.1	50.0
08:00 PM - 09:00 PM	52.8	71.0	49.6
09:00 PM - 10:00 PM	52.1	70.6	48.1
10:00 PM - 11:00 PM	52.8	65.3	48.2
11:00 PM - 12:00 AM	51.3	63.3	49.1
12:00 AM - 01:00 AM	52.3	73.9	48.8
01:00 AM - 02:00 AM	47.7	69.5	47.6
02:00 AM - 03:00 AM	48.1	67.9	45.5
03:00 AM - 04:00 AM	47.5	69.0	45.4
04:00 AM - 05:00 AM	53.9	69.1	50.4
05:00 AM - 06:00 AM	53.6	67.4	50.6
06:00 AM - 07:00 AM	55.5	74.5	50.9
07:00 AM - 08:00 AM	55.1	76.4	50.6
08:00 AM - 09:00 AM	53.5	76.4	50.3
09:00 AM - 10:00 AM	53.3	69.4	50.2
10:00 AM - 11:00 AM	53.4	68.2	50.3
11:00 AM - 12:00 PM	56.4	91.0	51.8
12:00 PM - 01:00 PM	57.1	86.7	52.5
01:00 PM - 02:00 PM	56.2	76.5	51.0
02:00 PM - 03:00 PM	58.3	75.8	54.5
03:00 PM - 04:00 PM	57.4	72.2	54.1
04:00 PM - 05:00 PM			

Leq Average 24 hrs. (dB(A))
Lmax (dB(A)) 91.0
L90 (dB(A)) 50.3
Ldn (dB(A))

Standard (dB(A)) 70

Reference Method : ISO1996-1 and 1996-2

Standard : 1. ประกาศกระทรวงมหาดไทย เรื่อง ค่ามาตรฐานระดับเสียงในชุมชน พ.ศ. 2540
2. ประกาศกระทรวงมหาดไทย เรื่อง ค่ามาตรฐานระดับเสียงในชุมชน พ.ศ. 2540

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

Technical Management

Thanitak.

Thaniia Kulsurwong
Scientist (4)

Approved by

Supt S.

Supot Salanteh
Section Head

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S:Report_Air Noise.pdf (7.264M)

7781-31/ENAL



Analysis / Test Report

Client : Siam Polystyrene Co., Ltd.
8, Map Ta Phut Industrial Estate, I-4 Road, Map ta phut, Muang, Rayong Thailand 21150
P/O : 4515755108
Project Name : Environmental Quality Monitoring
Project Location : Map Ta Phut_PS (SPCL)

Lot ID: 2417889
Date Received : Jun 10, 2024
Date Reported : Jun 14, 2024
Report Number: 3024251-1



TESTING
No.0042

Page 1 of 1

Sample Number	2417889-8
Parameter	Noise (Leq 24 hrs.)
Location	ถนนวิภาวดี (จุดวัดทางเข้าเขตชุมชน) (GPS 47P 0735531, 1402769)
Measurement Date	May 31 - Jun 01, 2024
Measurement by	Jittakorn Siwasa
Sound Level meter	Serial No. 1122567

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
05:00 PM - 06:00 PM	57.4	75.0	51.6
06:00 PM - 07:00 PM	55.8	76.9	50.9
07:00 PM - 08:00 PM	55.5	76.5	51.4
08:00 PM - 09:00 PM	55.8	71.8	50.1
09:00 PM - 10:00 PM	55.8	81.1	49.1
10:00 PM - 11:00 PM	54.4	78.5	47.8
11:00 PM - 12:00 AM	51.8	75.2	46.3
12:00 AM - 01:00 AM	51.9	74.8	46.0
01:00 AM - 02:00 AM	49.7	73.3	44.0
02:00 AM - 03:00 AM	51.0	78.3	43.9
03:00 AM - 04:00 AM	54.3	76.3	43.5
04:00 AM - 05:00 AM	58.0	76.3	46.3
05:00 AM - 06:00 AM	57.3	87.4	48.6
06:00 AM - 07:00 AM	57.8	81.9	50.5
07:00 AM - 08:00 AM	56.3	76.0	50.6
08:00 AM - 09:00 AM	58.4	75.3	53.0
09:00 AM - 10:00 AM	55.2	77.6	49.3
10:00 AM - 11:00 AM	54.6	77.2	48.3
11:00 AM - 12:00 PM	55.7	76.4	49.8
12:00 PM - 01:00 PM	54.3	74.6	48.1
01:00 PM - 02:00 PM	54.3	74.8	48.0
02:00 PM - 03:00 PM	56.0	77.2	51.3
03:00 PM - 04:00 PM	56.6	80.4	49.6
04:00 PM - 05:00 PM	57.6	79.0	51.9

Leq Average 24 hrs. (dB(A))
Lmax (dB(A)) 87.4
L90 (dB(A)) 49.1
Ldn (dB(A))

Standard (dB(A)) 115

Reference Method : ISO1996-1 and 1996-2

Standard : 1. ประกาศกระทรวงมหาดไทย เรื่อง ค่ามาตรฐานระดับเสียงในชุมชน พ.ศ. 2540
2. ประกาศกระทรวงมหาดไทย เรื่อง ค่ามาตรฐานระดับเสียงในชุมชน พ.ศ. 2540

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

Technical Management

Thanitak.

Thaniia Kulsurwong
Scientist (4)

Approved by

Supt S.

Supot Salanteh
Section Head

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S:Report_Air Noise.pdf (7.264M)

7781-31/ENAL



Analysis / Test Report

TESTING
No.0042

Client : Siam Polystyrene Co., Ltd.
8, Map Ta Phut Industrial Estate, I-4 Road, Map ta phut, Muang, Rayong Thailand 21150
P/O : 4515755108
Date Received : Jun 10, 2024
Date Reported : Jun 14, 2024
Report Number: 3024252-1

Lot ID: 2417889

Project Name : Environmental Quality Monitoring
Project Location : Map Ta Phut_PS (SPCL)

Page 1 of 1

Sample Number	2417889-9
Parameter	Noise (Leq 24 hrs.)
Location	บ้านท่าเรือ (หมู่ 6) ต.ท่าเรือ อ.เมือง จ.ระยอง (GPS 47P 0735531, 1402769)
Measurement Date	Jun 01 - Jun 02, 2024
Measurement by	Jittakorn Srivasa
Sound Level meter	Serial No. 1122567

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
05:00 PM - 06:00 PM	57.8	75.0	52.1
06:00 PM - 07:00 PM	56.3	69.4	50.8
07:00 PM - 08:00 PM	55.3	73.9	49.4
08:00 PM - 09:00 PM	55.0	83.4	50.5
09:00 PM - 10:00 PM	56.1	73.3	53.3
10:00 PM - 11:00 PM	57.9	71.2	56.2
11:00 PM - 12:00 AM	57.6	67.0	56.2
12:00 AM - 01:00 AM	63.6	69.6	62.2
01:00 AM - 02:00 AM	60.6	69.0	58.5
02:00 AM - 03:00 AM	60.8	71.2	59.4
03:00 AM - 04:00 AM	59.4	75.5	55.7
04:00 AM - 05:00 AM	62.1	76.4	59.9
05:00 AM - 06:00 AM	60.6	76.7	56.4
06:00 AM - 07:00 AM	58.9	75.0	52.1
07:00 AM - 08:00 AM	58.1	82.4	51.5
08:00 AM - 09:00 AM	56.2	77.1	48.8
09:00 AM - 10:00 AM	56.0	77.1	48.6
10:00 AM - 11:00 AM	56.6	81.7	49.3
11:00 AM - 12:00 PM	54.8	77.4	48.5
12:00 PM - 01:00 PM	55.0	77.8	48.2
01:00 PM - 02:00 PM	54.0	77.1	46.7
02:00 PM - 03:00 PM	55.5	72.4	46.8
03:00 PM - 04:00 PM	57.9	76.8	50.0
04:00 PM - 05:00 PM	57.9	90.9	50.0

Leq Average 24 hrs. (dB(A))	58.4
Lmax (dB(A))	90.9
L90 (dB(A))	50.8
Ldn (dB(A))	66.6
Standard (dB(A))	70
Standard (dB(A))	115

Reference Method : ISO 1996-1 and 1996-2
Standard : 1. ประกาศกระทรวงมหาดไทย เรื่องเสียงรบกวน พ.ศ. 2540 (พ.ศ. 2540) เรื่องการควบคุมการปล่อยเสียงรบกวนจากโรงงานอุตสาหกรรม
2. ประกาศกระทรวงมหาดไทย เรื่องการควบคุมการปล่อยเสียงรบกวนจากยานพาหนะ พ.ศ. 2548

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

Technical Management
Tharitak.
Thantia Kulsuriwong
Scientist (4)

Approved by
Supt S.

Supot Salameh
Section Head

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



Analysis / Test Report

TESTING
No.0042

Client : Siam Polystyrene Co., Ltd.
8, Map Ta Phut Industrial Estate, I-4 Road, Map ta phut, Muang, Rayong Thailand 21150
P/O : 4515755108
Date Received : Jun 10, 2024
Date Reported : Jun 14, 2024
Report Number: 3024253-1

Lot ID: 2417889

Project Name : Environmental Quality Monitoring
Project Location : Map Ta Phut_PS (SPCL)

Page 1 of 1

Sample Number	2417889-10
Parameter	Noise (Leq 24 hrs.)
Location	บ้านท่าเรือ (หมู่ 6) ต.ท่าเรือ อ.เมือง จ.ระยอง (GPS 47P 0735531, 1402769)
Measurement Date	Jun 02 - Jun 03, 2024
Measurement by	Jittakorn Srivasa
Sound Level meter	Serial No. 1122567

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
05:00 PM - 06:00 PM	56.6	76.0	51.7
06:00 PM - 07:00 PM	57.0	74.2	52.4
07:00 PM - 08:00 PM	59.1	86.3	54.0
08:00 PM - 09:00 PM	57.0	73.6	52.5
09:00 PM - 10:00 PM	59.1	82.7	51.0
10:00 PM - 11:00 PM	56.7	81.3	51.1
11:00 PM - 12:00 AM	56.0	84.3	49.8
12:00 AM - 01:00 AM	55.2	75.3	49.7
01:00 AM - 02:00 AM	53.2	74.2	47.2
02:00 AM - 03:00 AM	54.8	71.1	46.0
03:00 AM - 04:00 AM	62.6	77.7	51.1
04:00 AM - 05:00 AM	65.7	76.4	50.0
05:00 AM - 06:00 AM	58.6	76.9	48.1
06:00 AM - 07:00 AM	57.6	79.1	48.8
07:00 AM - 08:00 AM	56.7	77.5	49.4
08:00 AM - 09:00 AM	56.0	75.3	49.5
09:00 AM - 10:00 AM	56.5	81.3	48.2
10:00 AM - 11:00 AM	57.1	79.0	49.1
11:00 AM - 12:00 PM	56.3	77.2	48.2
12:00 PM - 01:00 PM	56.1	77.7	47.5
01:00 PM - 02:00 PM	57.5	79.9	47.9
02:00 PM - 03:00 PM	58.2	78.9	47.8
03:00 PM - 04:00 PM	54.6	74.7	47.0
04:00 PM - 05:00 PM	56.9	77.0	50.2

Leq Average 24 hrs. (dB(A))	58.3
Lmax (dB(A))	86.3
L90 (dB(A))	49.4
Ldn (dB(A))	65.9
Standard (dB(A))	70
Standard (dB(A))	115

Reference Method : ISO 1996-1 and 1996-2
Standard : 1. ประกาศกระทรวงมหาดไทย เรื่องเสียงรบกวน พ.ศ. 2540 (พ.ศ. 2540) เรื่องการควบคุมการปล่อยเสียงรบกวนจากโรงงานอุตสาหกรรม
2. ประกาศกระทรวงมหาดไทย เรื่องการควบคุมการปล่อยเสียงรบกวนจากยานพาหนะ พ.ศ. 2548

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

Technical Management
Tharitak.
Thantia Kulsuriwong
Scientist (4)

Approved by
Supt S.

Supot Salameh
Section Head

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Analysis / Test Report



Client : Siam Polystyrene Co., Ltd.
8, Map Ta Phut Industrial Estate, I-4 Road, Map ta phut, Muang, Rayong Thailand 21150
P/O : 4515755108
Project Name : Environmental Quality Monitoring
Project Location : Map Ta Phut_PS (SPCL)

TESTING
No.0042
Lot ID: 2417889
Date Received : Jun 10, 2024
Date Reported : Jun 14, 2024
Report Number: 3024254-1

Page 1 of 1

Sample Number	2417889-11
Parameter	Noise (Leq 24 hrs.)
Location	บ้านท่าเรือ (หมู่บ้านท่าเรือตากสิน) (GPS 47° 07'35.531, 1402769)
Measurement Date	Jun 03 - Jun 04, 2024
Measurement by	Jittakorn Siwasa
Sound Level meter	Serial No. 1122567

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
05:00 PM - 06:00 PM	56.4	75.2	51.0
06:00 PM - 07:00 PM	57.8	78.0	52.0
07:00 PM - 08:00 PM	58.3	86.9	51.1
08:00 PM - 09:00 PM	56.1	76.1	51.0
09:00 PM - 10:00 PM	59.1	76.3	49.5
10:00 PM - 11:00 PM	54.2	78.3	48.3
11:00 PM - 12:00 AM	54.1	76.8	46.3
12:00 AM - 01:00 AM	51.7	72.1	46.8
01:00 AM - 02:00 AM	49.4	71.1	44.3
02:00 AM - 03:00 AM	53.6	75.3	43.8
03:00 AM - 04:00 AM	56.3	84.2	43.5
04:00 AM - 05:00 AM	57.3	77.1	44.8
05:00 AM - 06:00 AM	56.6	78.2	47.9
06:00 AM - 07:00 AM	59.5	84.8	49.8
07:00 AM - 08:00 AM	57.2	78.2	49.2
08:00 AM - 09:00 AM	56.5	83.3	48.5
09:00 AM - 10:00 AM	57.0	80.2	49.0
10:00 AM - 11:00 AM	54.9	74.4	47.0
11:00 AM - 12:00 PM	54.2	75.7	47.9
12:00 PM - 01:00 PM	56.8	81.1	47.1
01:00 PM - 02:00 PM	53.1	73.2	46.4
02:00 PM - 03:00 PM	56.3	79.7	47.0
03:00 PM - 04:00 PM	54.7	73.9	48.1
04:00 PM - 05:00 PM	56.5	81.0	50.5

Leq Average 24 hrs. (dB(A))	56.1
Lmax (dB(A))	86.9
L90 (dB(A))	47.9
Ldn (dB(A))	

Standard (dB(A)) 70
Reference Method : ISO1996-1 and 1996-2
Standard : 1. ประกาศกระทรวงอุตสาหกรรม เรื่อง กำหนดมาตรฐานค่าเสียงรบกวน ณพื้นที่ 15 (พ.ศ. 2540) สำหรับอาคารโรงงานอุตสาหกรรม
2. ประกาศกระทรวงอุตสาหกรรม เรื่อง กำหนดมาตรฐานค่าเสียงรบกวน ณพื้นที่ 15 (พ.ศ. 2540) สำหรับอาคารโรงงานอุตสาหกรรม

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

Technical Management
Thairitak.
Thairitak Kulsurirong
Scientist (4)

Approved by
Supot Salameh
Section Head

Supot S.

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



781-31/EMAIL

S:\Report_Air Noise pr (7-27AM)



Analysis / Test Report



Client : Siam Polystyrene Co., Ltd.
8, Map Ta Phut Industrial Estate, I-4 Road, Map ta phut, Muang, Rayong Thailand 21150
P/O : 4515755108
Project Name : Environmental Quality Monitoring
Project Location : Map Ta Phut_PS (SPCL)

TESTING
No.0042
Lot ID: 2417889
Date Received : Jun 10, 2024
Date Reported : Jun 14, 2024
Report Number: 3024255-1

Page 1 of 1

Sample Number	2417889-12
Parameter	Noise (Leq 24 hrs.)
Location	บ้านท่าเรือ (หมู่บ้านท่าเรือตากสิน) (GPS 47° 07'35.531, 1402769)
Measurement Date	Jun 04 - Jun 05, 2024
Measurement by	Jittakorn Siwasa
Sound Level meter	Serial No. 1122567

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
05:00 PM - 06:00 PM	56.1	86.0	50.0
06:00 PM - 07:00 PM	55.7	72.1	50.3
07:00 PM - 08:00 PM	55.8	77.3	49.6
08:00 PM - 09:00 PM	55.0	77.7	49.0
09:00 PM - 10:00 PM	56.3	80.0	48.8
10:00 PM - 11:00 PM	54.9	79.7	43.5
11:00 PM - 12:00 AM	53.0	78.3	43.6
12:00 AM - 01:00 AM	51.9	75.7	42.8
01:00 AM - 02:00 AM	47.6	68.0	42.5
02:00 AM - 03:00 AM	51.8	78.0	42.8
03:00 AM - 04:00 AM	51.7	76.8	42.3
04:00 AM - 05:00 AM	57.2	78.3	43.6
05:00 AM - 06:00 AM	56.6	77.0	48.5
06:00 AM - 07:00 AM	58.0	84.7	51.1
07:00 AM - 08:00 AM	57.8	75.9	50.9
08:00 AM - 09:00 AM	54.9	77.4	48.6
09:00 AM - 10:00 AM	54.0	74.2	46.8
10:00 AM - 11:00 AM	55.4	73.4	47.7
11:00 AM - 12:00 PM	54.3	75.2	47.7
12:00 PM - 01:00 PM	55.2	74.1	48.5
01:00 PM - 02:00 PM	53.8	75.4	46.4
02:00 PM - 03:00 PM	54.5	76.7	47.6
03:00 PM - 04:00 PM	56.0	74.9	48.2
04:00 PM - 05:00 PM	56.4	78.1	50.8

Leq Average 24 hrs. (dB(A))	55.2
Lmax (dB(A))	86.0
L90 (dB(A))	47.7
Ldn (dB(A))	

Standard (dB(A)) 70
Reference Method : ISO1996-1 and 1996-2
Standard : 1. ประกาศกระทรวงอุตสาหกรรม เรื่อง กำหนดมาตรฐานค่าเสียงรบกวน ณพื้นที่ 15 (พ.ศ. 2540) สำหรับอาคารโรงงานอุตสาหกรรม
2. ประกาศกระทรวงอุตสาหกรรม เรื่อง กำหนดมาตรฐานค่าเสียงรบกวน ณพื้นที่ 15 (พ.ศ. 2540) สำหรับอาคารโรงงานอุตสาหกรรม

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

Technical Management
Thairitak.
Thairitak Kulsurirong
Scientist (4)

Approved by
Supot Salameh
Section Head

Supot S.

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



781-31/EMAIL

S:\Report_Air Noise pr (7-27AM)



Analysis / Test Report

Client : Siam Polyethylene Co., Ltd.
8, Map Ta Phut Industrial Estate, I-4 Road, Map ta phut, Muang, Rayong Thailand 21150
P/O : 4515755108
Project Name : Environmental Quality Monitoring
Project Location : Map Ta Phut_PS (SPCL)

TESTING
No.0042
Lot ID: 2417889
Date Received : Jun 10, 2024
Date Reported : Jun 14, 2024
Report Number: 3024256-1

Page 1 of 1

Sample Number : 2417889-13
Parameter : Noise (Leq 24 hrs.)
Location : บ้านฉางโรง (หมู่ 6 บ้านฉางโรง) (GPS 47P 073531, 1402769)
Measurement Date : Jun 05 - Jun 06, 2024
Measurement by : Jittakorn Siwasa
Sound Level meter : Serial No. 1122567

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
05:00 PM - 06:00 PM	55.8	76.3	50.3
06:00 PM - 07:00 PM	55.7	78.9	50.5
07:00 PM - 08:00 PM	56.1	85.8	50.1
08:00 PM - 09:00 PM	54.1	72.9	48.7
09:00 PM - 10:00 PM	54.9	73.4	47.7
10:00 PM - 11:00 PM	54.6	78.6	45.7
11:00 PM - 12:00 PM	51.6	74.2	44.8
12:00 AM - 01:00 AM	54.0	74.1	48.9
01:00 AM - 02:00 AM	55.0	76.9	48.8
02:00 AM - 03:00 AM	54.2	79.8	46.6
03:00 AM - 04:00 AM	55.0	75.6	46.4
04:00 AM - 05:00 AM	55.7	73.4	50.4
05:00 AM - 06:00 AM	57.3	78.6	49.7
06:00 AM - 07:00 AM	58.2	78.8	51.2
07:00 AM - 08:00 AM	58.4	76.0	51.3
08:00 AM - 09:00 AM	57.9	76.9	50.1
09:00 AM - 10:00 AM	56.3	79.2	47.3
10:00 AM - 11:00 AM	54.1	76.3	46.1
11:00 AM - 12:00 PM	56.4	76.5	49.1
12:00 PM - 01:00 PM	55.1	73.5	48.4
01:00 PM - 02:00 PM	55.1	73.5	47.9
02:00 PM - 03:00 PM	56.0	81.8	48.5
03:00 PM - 04:00 PM	57.9	78.8	50.3
04:00 PM - 05:00 PM	57.8	78.2	51.7

Leq Average 24 hrs. (dB(A)) : 56.0
Lmax (dB(A)) : 85.8
L90 (dB(A)) : 48.8
Ldn (dB(A)) : 62.0
Standard (dB(A)) : 115

Reference Method : ISO 1996-1 and 1996-2
Standard : 1. ปรมาณูการวัดและประเมินค่าเสียงตามข้อกำหนด 15 (พ.ศ. 2540) สำหรับการวัดทางเสียงในสิ่งแวดล้อม
2. ปรมาณูการวัดและประเมินค่าเสียงตามข้อกำหนด 15 (พ.ศ. 2540) สำหรับการวัดทางเสียงในสิ่งแวดล้อม

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

Technical Management : *Thanitak.*
Thantia Kulsirirong
Scientist (4)
Approved by : *Supt S.*
Supt Salameh
Section Head



Analysis / Test Report

Client : Siam Polyethylene Co., Ltd.
8, Map Ta Phut Industrial Estate, I-4 Road, Map ta phut, Muang, Rayong Thailand 21150
P/O : 4515755108
Project Name : Environmental Quality Monitoring
Project Location : Map Ta Phut_PS (SPCL)

TESTING
No.0042
Lot ID: 2417889
Date Received : Jun 10, 2024
Date Reported : Jun 14, 2024
Report Number: 3024257-1

Page 1 of 1

Sample Number : 2417889-14
Parameter : Noise (Leq 24 hrs.)
Location : บ้านฉางโรง (หมู่ 6 บ้านฉางโรง) (GPS 47P 073531, 1402769)
Measurement Date : Jun 06 - Jun 07, 2024
Measurement by : Jittakorn Siwasa
Sound Level meter : Serial No. 1122567

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
05:00 PM - 06:00 PM	56.7	77.1	50.9
06:00 PM - 07:00 PM	57.0	78.2	51.9
07:00 PM - 08:00 PM	55.9	76.8	50.8
08:00 PM - 09:00 PM	59.3	81.2	51.3
09:00 PM - 10:00 PM	55.7	80.3	50.2
10:00 PM - 11:00 PM	56.2	84.4	49.4
11:00 PM - 12:00 AM	54.3	77.3	47.5
12:00 AM - 01:00 AM	57.9	82.1	46.5
01:00 AM - 02:00 AM	52.4	75.0	43.9
02:00 AM - 03:00 AM	55.2	76.8	43.7
03:00 AM - 04:00 AM	59.3	77.0	44.5
04:00 AM - 05:00 AM	57.1	78.2	49.5
05:00 AM - 06:00 AM	57.7	76.7	49.3
06:00 AM - 07:00 AM	57.1	80.9	50.6
07:00 AM - 08:00 AM	55.1	74.5	50.1
08:00 AM - 09:00 AM	54.3	73.7	48.1
09:00 AM - 10:00 AM	53.3	77.1	47.6
10:00 AM - 11:00 PM	56.6	75.9	47.5
11:00 AM - 12:00 PM	56.3	85.3	50.0
12:00 PM - 01:00 PM	54.4	76.1	49.7
01:00 PM - 02:00 PM	54.2	75.4	47.8
02:00 PM - 03:00 PM	54.2	75.4	48.0
03:00 PM - 04:00 PM	53.9	72.4	48.0
04:00 PM - 05:00 PM	57.2	82.8	51.8

Leq Average 24 hrs. (dB(A)) : 56.5
Lmax (dB(A)) : 87.1
L90 (dB(A)) : 49.3
Ldn (dB(A)) : 63.3
Standard (dB(A)) : 115

Reference Method : ISO 1996-1 and 1996-2
Standard : 1. ปรมาณูการวัดและประเมินค่าเสียงตามข้อกำหนด 15 (พ.ศ. 2540) สำหรับการวัดทางเสียงในสิ่งแวดล้อม
2. ปรมาณูการวัดและประเมินค่าเสียงตามข้อกำหนด 15 (พ.ศ. 2540) สำหรับการวัดทางเสียงในสิ่งแวดล้อม

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

Technical Management : *Thanitak.*
Thantia Kulsirirong
Scientist (4)
Approved by : *Supt S.*
Supt Salameh
Section Head



Analysis / Test Report

TESTING
No.0042

Lot ID: 2417889

Date Received : Jun 10, 2024
Date Reported : Jun 14, 2024
Report Number: 3024258-1



Client : Siam Polystyrene Co., Ltd.
8, Map Ta Phut Industrial Estate, I-4 Road, Map ta phut, Muang, Rayong Thailand 21150
P/O : 4515755108
Project Name : Environmental Quality Monitoring
Project Location : Map Ta Phut_PS (SPCL)

Page 1 of 1

Sample Number	2417889-15
Parameter	Noise (Leq 24 hrs.)
Location	บ้านโสมกวน้อยหมู่ที่ 15 (GPS 47P 0733727, 1404233)
Measurement Date	May 31 - Jun 01, 2024
Measurement by	Jitakorn Sivasa
Sound Level meter	Serial No. 1120939

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
05:00 PM - 06:00 PM	62.8	76.0	62.1
06:00 PM - 07:00 PM	62.9	70.6	62.3
07:00 PM - 08:00 PM	62.4	65.0	61.9
08:00 PM - 09:00 PM	62.3	65.9	61.9
09:00 PM - 10:00 PM	62.6	69.3	62.1
10:00 PM - 11:00 PM	62.4	66.5	62.0
11:00 PM - 12:00 AM	62.3	64.3	61.9
12:00 AM - 01:00 AM	62.9	69.7	62.4
01:00 AM - 02:00 AM	62.9	67.5	62.5
02:00 AM - 03:00 AM	63.1	65.9	62.7
03:00 AM - 04:00 AM	62.8	64.9	62.4
04:00 AM - 05:00 AM	62.5	67.5	62.1
05:00 AM - 06:00 AM	62.9	73.2	62.4
06:00 AM - 07:00 AM	63.4	70.1	63.0
07:00 AM - 08:00 AM	63.8	74.3	63.5
08:00 AM - 09:00 AM	62.5	77.7	62.0
09:00 AM - 10:00 AM	62.6	72.0	62.1
10:00 AM - 11:00 AM	62.1	69.1	61.9
11:00 AM - 12:00 PM	62.5	70.8	61.9
12:00 PM - 01:00 PM	62.3	71.7	61.9
01:00 PM - 02:00 PM	62.5	69.8	61.9
02:00 PM - 03:00 PM	62.4	76.8	61.8
03:00 PM - 04:00 PM	62.7	76.7	62.1
04:00 PM - 05:00 PM	62.7	76.7	62.1

Leq Average 24 hrs. (dB(A))	62.7
Lmax (dB(A))	77.7
L90 (dB(A))	62.1
Ldn (dB(A))	
Standard (dB(A))	115

Reference Method : ISO1996-1 and 1996-2
Standard : 1. ประกาศกระทรวงมหาดไทย เรื่องเสียงรบกวนจากยานพาหนะ 2. ประกาศกระทรวงมหาดไทย เรื่องการควบคุมเสียงรบกวนจากโรงงานอุตสาหกรรม
โดยกรม ม.ร. 2548

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

Technical Management *Thanitak.* Approved by *Supt S.*
Thanita Kulsurirong Scientist (4) Supot Salameh Section Head

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S:\Report\Air Noise\pt (7.28AM)



Analysis / Test Report

TESTING
No.0042

Lot ID: 2417889

Date Received : Jun 10, 2024
Date Reported : Jun 14, 2024
Report Number: 3024259-1



Client : Siam Polystyrene Co., Ltd.
8, Map Ta Phut Industrial Estate, I-4 Road, Map ta phut, Muang, Rayong Thailand 21150
P/O : 4515755108
Project Name : Environmental Quality Monitoring
Project Location : Map Ta Phut_PS (SPCL)

Page 1 of 1

Sample Number	2417889-16
Parameter	Noise (Leq 24 hrs.)
Location	บ้านโสมกวน้อยหมู่ที่ 15 (GPS 47P 0733727, 1404233)
Measurement Date	Jun 01 - Jun 02, 2024
Measurement by	Jitakorn Sivasa
Sound Level meter	Serial No. 1120939

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
05:00 PM - 06:00 PM	62.6	73.3	61.9
06:00 PM - 07:00 PM	62.6	62.6	62.8
07:00 PM - 08:00 PM	62.3	73.3	61.7
08:00 PM - 09:00 PM	62.2	70.8	61.7
09:00 PM - 10:00 PM	62.1	64.4	61.6
10:00 PM - 11:00 PM	62.3	68.4	61.9
11:00 PM - 12:00 AM	62.5	67.4	62.0
12:00 AM - 01:00 AM	62.5	67.4	62.0
01:00 AM - 02:00 AM	62.3	71.9	62.0
02:00 AM - 03:00 AM	62.5	69.4	61.7
03:00 AM - 04:00 AM	62.5	65.9	62.1
04:00 AM - 05:00 AM	62.4	69.1	62.0
05:00 AM - 06:00 AM	62.9	78.8	62.1
06:00 AM - 07:00 AM	62.6	71.1	61.9
07:00 AM - 08:00 AM	62.1	71.7	61.5
08:00 AM - 09:00 AM	62.0	68.5	61.4
09:00 AM - 10:00 AM	61.8	71.5	61.4
10:00 AM - 11:00 AM	61.8	67.6	61.4
11:00 AM - 12:00 PM	61.9	80.0	61.3
12:00 PM - 01:00 PM	61.5	69.1	61.1
01:00 PM - 02:00 PM	61.4	70.3	60.9
02:00 PM - 03:00 PM	61.5	66.4	61.0
03:00 PM - 04:00 PM	61.6	68.4	61.1
04:00 PM - 05:00 PM	61.6	68.4	61.1

Leq Average 24 hrs. (dB(A))	62.2
Lmax (dB(A))	80.0
L90 (dB(A))	61.7
Ldn (dB(A))	
Standard (dB(A))	115

Reference Method : ISO1996-1 and 1996-2
Standard : 1. ประกาศกระทรวงมหาดไทย เรื่องเสียงรบกวนจากยานพาหนะ 2. ประกาศกระทรวงมหาดไทย เรื่องการควบคุมเสียงรบกวนจากโรงงานอุตสาหกรรม
โดยกรม ม.ร. 2548

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

Technical Management *Thanitak.* Approved by *Supt S.*
Thanita Kulsurirong Scientist (4) Supot Salameh Section Head

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Analysis / Test Report

TESTING
No.0042

Lot ID: 2417889

Date Received : Jun 10, 2024
Date Reported : Jun 14, 2024
Report Number: 3024260-1

Client : Siam Polystyrene Co., Ltd.
8, Map Ta Phut Industrial Estate, 1-4 Road, Map ta phut, Muang, Rayong Thailand 21150
P/O : 4515755108
Project Name : Environmental Quality Monitoring
Project Location : Map Ta Phut_PS (SPCL)

Page 1 of 1

Sample Number	2417889-17
Parameter	Noise (Leq 24 hrs.)
Location	บริเวณโรงงานผลิต (GPS 47P 0733727, 1404233)
Measurement Date	Jun 02 - Jun 03, 2024
Measurement by	Jittakorn Sivasa
Sound Level meter	Serial No. 1120939

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
05:00 PM - 06:00 PM	61.7	71.1	61.2
06:00 PM - 07:00 PM	62.0	73.4	61.4
07:00 PM - 08:00 PM	62.1	67.8	61.6
08:00 PM - 09:00 PM	62.1	67.2	61.6
09:00 PM - 10:00 PM	61.8	65.4	61.4
10:00 PM - 11:00 PM	61.6	64.8	61.2
11:00 PM - 12:00 AM	61.4	64.1	61.1
12:00 AM - 01:00 AM	61.8	68.0	61.6
01:00 AM - 02:00 AM	62.0	64.4	61.7
02:00 AM - 03:00 AM	62.1	64.1	61.7
03:00 AM - 04:00 AM	62.1	65.3	61.7
04:00 AM - 05:00 AM	62.2	68.5	61.8
05:00 AM - 06:00 AM	62.4	62.5	61.9
06:00 AM - 07:00 AM	62.6	70.6	62.1
07:00 AM - 08:00 AM	62.6	72.9	62.0
08:00 AM - 09:00 AM	62.2	75.6	61.9
09:00 AM - 10:00 AM	62.5	78.0	61.9
10:00 AM - 11:00 AM	61.6	70.1	61.1
11:00 AM - 12:00 PM	61.6	77.3	61.1
12:00 PM - 01:00 PM	61.6	65.2	61.1
01:00 PM - 02:00 PM	61.4	66.4	60.9
02:00 PM - 03:00 PM	61.7	72.6	61.1
03:00 PM - 04:00 PM	62.0	68.4	61.4
04:00 PM - 05:00 PM			

Leq Average 24 hrs. (dB(A))	62.0
Lmax (dB(A))	79.4
L90 (dB(A))	61.6
Ldn (dB(A))	

Standard (dB(A)) 115
Reference Method : ISO1996-1 and 1996-2
Standard : 1. วิธีการตรวจวัดระดับเสียงตามเกณฑ์ ส่วนที่ 15 (พ.ศ. 2546) สำหรับอาคารโรงงานอุตสาหกรรม
2. วิธีการตรวจวัดค่าการรบกวนเสียงตามเกณฑ์ ส่วนที่ 15 (พ.ศ. 2546) สำหรับอาคารโรงงานอุตสาหกรรม และระดับเสียงที่อาจก่อให้เกิดผลกระทบ
หมายเหตุ พ.ศ. 2548
Remark : The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Approved by
Supt S.

Technical Management
Thanitak.
Thanita Kulsumwong
Scientist (4)

Approved by
Supt S.

Supot Salameh
Section Head

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S (Report)_Air Noise rpt (7.284M)



Analysis / Test Report

TESTING
No.0042

Lot ID: 2417889

Date Received : Jun 10, 2024
Date Reported : Jun 14, 2024
Report Number: 3024261-1

Client : Siam Polystyrene Co., Ltd.
8, Map Ta Phut Industrial Estate, 1-4 Road, Map ta phut, Muang, Rayong Thailand 21150
P/O : 4515755108
Project Name : Environmental Quality Monitoring
Project Location : Map Ta Phut_PS (SPCL)

Page 1 of 1

Sample Number	2417889-18
Parameter	Noise (Leq 24 hrs.)
Location	บริเวณโรงงานผลิต (GPS 47P 0733727, 1404233)
Measurement Date	Jun 03 - Jun 04, 2024
Measurement by	Jittakorn Sivasa
Sound Level meter	Serial No. 1120939

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
05:00 PM - 06:00 PM	62.1	70.6	61.5
06:00 PM - 07:00 PM	62.0	75.8	61.5
07:00 PM - 08:00 PM	62.0	62.1	61.5
08:00 PM - 09:00 PM	61.8	65.0	61.4
09:00 PM - 10:00 PM	61.7	65.2	61.3
10:00 PM - 11:00 PM	61.7	64.7	61.4
11:00 PM - 12:00 AM	61.8	64.7	61.5
12:00 AM - 01:00 AM	61.8	63.5	61.4
01:00 AM - 02:00 AM	61.9	66.9	61.5
02:00 AM - 03:00 AM	62.0	66.5	61.6
03:00 AM - 04:00 AM	62.1	64.3	61.6
04:00 AM - 05:00 AM	62.2	65.6	61.8
05:00 AM - 06:00 AM	62.3	65.9	61.9
06:00 AM - 07:00 AM	62.9	70.4	62.4
07:00 AM - 08:00 AM	63.0	69.7	62.4
08:00 AM - 09:00 AM	62.6	73.4	62.0
09:00 AM - 10:00 AM	62.3	70.7	61.7
10:00 AM - 11:00 AM	62.9	70.0	62.2
11:00 AM - 12:00 PM	61.9	66.9	61.3
12:00 PM - 01:00 PM	61.5	71.0	60.9
01:00 PM - 02:00 PM	61.6	75.1	60.7
02:00 PM - 03:00 PM	61.6	72.0	61.0
03:00 PM - 04:00 PM	61.9	70.5	61.2
04:00 PM - 05:00 PM	61.9	66.5	61.4
05:00 PM - 06:00 PM			

Leq Average 24 hrs. (dB(A))	62.1
Lmax (dB(A))	75.8
L90 (dB(A))	61.5
Ldn (dB(A))	

Standard (dB(A)) 115
Reference Method : ISO1996-1 and 1996-2
Standard : 1. วิธีการตรวจวัดระดับเสียงตามเกณฑ์ ส่วนที่ 15 (พ.ศ. 2546) สำหรับอาคารโรงงานอุตสาหกรรม
2. วิธีการตรวจวัดค่าการรบกวนเสียงตามเกณฑ์ ส่วนที่ 15 (พ.ศ. 2546) สำหรับอาคารโรงงานอุตสาหกรรม และระดับเสียงที่อาจก่อให้เกิดผลกระทบ
หมายเหตุ พ.ศ. 2548
Remark : The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Approved by
Supt S.

Technical Management
Thanitak.
Thanita Kulsumwong
Scientist (4)

Approved by
Supt S.

Supot Salameh
Section Head

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778-31/BMAL

S (Report)_Air Noise rpt (7.284M)



Analysis / Test Report



TESTING
No.0042

Client : Siam Polystyrene Co., Ltd.
8, Map Ta Phut Industrial Estate, I-4 Road, Map ta phut, Muang, Rayong Thailand 21150
P/O : 451575108
Project Name : Environmental Quality Monitoring
Project Location : Map Ta Phut_PS (SPCL)
Lot ID: 2417889
Date Received : Jun 10, 2024
Date Reported : Jun 14, 2024
Report Number: 3024262-1

Page 1 of 1

Sample Number	2417889-19
Parameter	Noise (Leq 24 hrs.)
Location	ชั้น5 โรงงานผลิตพลาสติก (GPS 47P 0733727, 1404233)
Measurement Date	Jun 04 - Jun 05, 2024
Measurement by	Jitakorn Siwasa
Sound Level meter	Serial No. 1120939

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
05:00 PM - 06:00 PM	61.8	73.4	61.2
06:00 PM - 07:00 PM	62.5	78.5	61.6
07:00 PM - 08:00 PM	62.0	66.7	61.5
08:00 PM - 09:00 PM	61.9	71.0	61.4
09:00 PM - 10:00 PM	61.8	66.7	61.3
10:00 PM - 11:00 PM	62.0	68.0	61.5
11:00 PM - 12:00 AM	62.0	64.2	61.6
12:00 AM - 01:00 AM	63.6	83.0	62.3
01:00 AM - 02:00 AM	62.8	67.1	62.5
02:00 AM - 03:00 AM	62.7	65.7	62.2
03:00 AM - 04:00 AM	62.5	68.3	62.0
04:00 AM - 05:00 AM	62.4	73.4	61.9
05:00 AM - 06:00 AM	62.9	80.5	62.3
06:00 AM - 07:00 AM	63.0	77.7	62.3
07:00 AM - 08:00 AM	62.8	74.1	62.2
08:00 AM - 09:00 AM	62.5	75.4	63.0
09:00 AM - 10:00 AM	62.6	78.9	61.8
10:00 AM - 11:00 AM	62.5	79.8	61.3
11:00 AM - 12:00 PM	62.6	68.0	61.8
12:00 PM - 01:00 PM	61.8	83.4	61.8
01:00 PM - 02:00 PM	63.2	79.8	62.0
02:00 PM - 03:00 PM	62.1	88.2	61.2
03:00 PM - 04:00 PM	62.1	69.0	61.5
04:00 PM - 05:00 PM	62.1		
Leq Average 24 hrs. (dB(A))	62.7	88.2	61.8
Lmax (dB(A))			
L90 (dB(A))	69.1		
Ldn (dB(A))	70	115	

Standard (dB(A))

Reference Method : ISO1996-1 and 1996-2

Standard : 1. ปรมาณค่าการรบกวนเสียงตามเกณฑ์ 15 (พ.ร.บ. 2546) สำหรับอาคารโรงงานอุตสาหกรรม
2. ปรมาณค่าการรบกวนเสียงตามเกณฑ์ 15 (พ.ร.บ. 2546) สำหรับอาคารที่อยู่อาศัย

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

รายงาน พ.ร.บ. 2546

Technical Management
Tharitak.
Thaila Kulurwong
Scientist (4)
Approved by
Supot Salameh
Section Head

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S:Report_L_Air Noise.pdf (7.284M)

778131/ENML



Analysis / Test Report



TESTING
No.0042

Client : Siam Polystyrene Co., Ltd.
8, Map Ta Phut Industrial Estate, I-4 Road, Map ta phut, Muang, Rayong Thailand 21150
P/O : 451575108
Project Name : Environmental Quality Monitoring
Project Location : Map Ta Phut_PS (SPCL)
Lot ID: 2417889
Date Received : Jun 10, 2024
Date Reported : Jun 14, 2024
Report Number: 3024263-1

Page 1 of 1

Sample Number	2417889-20
Parameter	Noise (Leq 24 hrs.)
Location	ชั้น5 โรงงานผลิตพลาสติก (GPS 47P 0733727, 1404233)
Measurement Date	Jun 05 - Jun 06, 2024
Measurement by	Jitakorn Siwasa
Sound Level meter	Serial No. 1120939

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
05:00 PM - 06:00 PM	61.9	70.8	61.5
06:00 PM - 07:00 PM	62.5	72.1	62.0
07:00 PM - 08:00 PM	62.5	70.4	61.9
08:00 PM - 09:00 PM	62.9	68.5	62.4
09:00 PM - 10:00 PM	62.7	66.6	62.1
10:00 PM - 11:00 PM	62.7	67.6	62.2
11:00 PM - 12:00 PM	62.6	64.9	62.0
12:00 AM - 01:00 AM	62.5	67.5	61.9
01:00 AM - 02:00 AM	62.4	68.6	61.7
02:00 AM - 03:00 AM	62.2	64.2	61.7
03:00 AM - 04:00 AM	62.2	65.1	61.8
04:00 AM - 05:00 AM	62.5	77.6	61.9
05:00 AM - 06:00 AM	62.4	77.3	62.1
06:00 AM - 07:00 AM	62.7	75.7	62.1
07:00 AM - 08:00 AM	62.4	71.6	61.8
08:00 AM - 09:00 AM	62.5	71.6	61.9
09:00 AM - 10:00 AM	62.4	81.4	61.5
10:00 AM - 11:00 AM	62.0	80.7	61.3
11:00 AM - 12:00 PM	61.9	70.6	61.3
12:00 PM - 01:00 PM	61.8	72.5	61.3
01:00 PM - 02:00 PM	61.8	78.8	61.0
02:00 PM - 03:00 PM	61.5	70.8	61.0
03:00 PM - 04:00 PM	61.8	73.2	61.3
04:00 PM - 05:00 PM	61.8	80.3	61.2
Leq Average 24 hrs. (dB(A))	62.3	81.4	61.8
Lmax (dB(A))			
L90 (dB(A))	68.8		
Ldn (dB(A))	70	115	

Standard (dB(A))

Reference Method : ISO1996-1 and 1996-2

Standard : 1. ปรมาณค่าการรบกวนเสียงตามเกณฑ์ 15 (พ.ร.บ. 2546) สำหรับอาคารโรงงานอุตสาหกรรม
2. ปรมาณค่าการรบกวนเสียงตามเกณฑ์ 15 (พ.ร.บ. 2546) สำหรับอาคารที่อยู่อาศัย

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

รายงาน พ.ร.บ. 2546

Technical Management
Tharitak.
Thaila Kulurwong
Scientist (4)
Approved by
Supot Salameh
Section Head

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S:Report_L_Air Noise.pdf (7.284M)



Analysis / Test Report



TESTING
No.0042

Lot ID: 2417889
Date Received : Jun 10, 2024
Date Reported : Jun 14, 2024
Report Number: 3024264-1

Client : Siam Polystyrene Co., Ltd.
8, Map Ta Phut Industrial Estate, I-4 Road, Map ta phut, Muang, Rayong Thailand 21150
P/O : 4515755108
Project Name : Environmental Quality Monitoring
Project Location : Map Ta Phut, PS (SPCL)

Page 1 of 1

Sample Number : 2417889-21
Parameter : Noise (Leq 24 hrs.)
Location : บริเวณถนนหน้าท่าเรือ (GPS 478 0733727, 1404233)
Measurement Date : Jun 06 - Jun 07, 2024
Measurement by : Jittakorn Sriwasa
Sound Level meter : Jitakorn Sriwasa
Serial No. 1120939

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
05:00 PM - 06:00 PM	62.2	76.4	61.6
06:00 PM - 07:00 PM	62.3	76.4	61.7
07:00 PM - 08:00 PM	62.2	71.3	61.6
08:00 PM - 09:00 PM	62.1	68.8	61.6
09:00 PM - 10:00 PM	62.3	67.7	61.8
10:00 PM - 11:00 PM	62.3	76.5	61.9
11:00 PM - 12:00 AM	62.3	65.0	61.8
12:00 AM - 01:00 AM	62.6	70.5	62.0
01:00 AM - 02:00 AM	62.5	65.4	62.0
02:00 AM - 03:00 AM	62.5	65.5	62.1
03:00 AM - 04:00 AM	62.6	65.0	62.1
04:00 AM - 05:00 AM	62.6	67.5	62.2
05:00 AM - 06:00 AM	62.6	74.3	62.1
06:00 AM - 07:00 AM	63.0	79.9	62.3
07:00 AM - 08:00 AM	62.6	81.0	62.0
08:00 AM - 09:00 AM	62.0	71.7	61.0
09:00 AM - 10:00 AM	61.5	67.6	60.9
10:00 AM - 11:00 AM	61.3	76.3	60.6
11:00 AM - 12:00 PM	61.5	74.0	60.8
12:00 PM - 01:00 PM	61.5	71.3	60.8
01:00 PM - 02:00 PM	61.4	69.7	60.8
02:00 PM - 03:00 PM	61.9	67.4	61.4
03:00 PM - 04:00 PM	62.5	73.4	61.8
04:00 PM - 05:00 PM	62.1	73.3	61.6
Leq Average 24 hrs. (dB(A))	62.2	81.7	61.7
Lmax (dB(A))			
L90 (dB(A))			
Ldn (dB(A))	68.9		
Standard (dB(A))	70	115	

Reference Method : ISO 1996-1 and 1996-2
Standard : 1. ประกาศกระทรวงมหาดไทย เรื่อง เสียง (พ.ศ. 2540) ประกาศกระทรวงมหาดไทย เรื่อง เสียง (พ.ศ. 2540)
2. ประกาศกระทรวงมหาดไทย เรื่อง การกำหนดระดับเสียงที่อนุญาตให้มีได้ในพื้นที่อยู่อาศัย

15333 น.ศ. 2548

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

Technical Management : *Thanitak.* Approved by : *Supt S.*
Thanita Kulsriwong Scientist (4) Supot Salimthong Section Head

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S (Reports)_Air Noise m (/ 33AM)

ภาคผนวก ค-4

คุณภาพน้ำทิ้ง



Analysis / Test Report

Client : Siam Synthetic Latex Co., Ltd.
8, Map Ta Phut Industrial Estate, 1-4 Road, Map ta phut, Muang, Rayong Thailand 21150
P/O :
Project Name : Water Testing
Project Location: Map Ta Phut Latex (SSLC)
TESTING
No.0042
Lot ID: 23146706
Date Received : Jan 16, 2024
Date Reported : Jan 24, 2024
Report Number : 2872873-1

Page 1 of 2

Sample Number	23146706-1
Sample Date	Jan 10, 2024 8:55 AM
Sample Description	Wastewater
Location	Domestic Outlet
Date Analysis Commenced	Jan 16, 2024
Condition of Sample	Contained in two amber glass bottles, two glass vials 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 5200 - G	Rayong
COD	mg/L	1.5	25	26	≤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	18	≤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	16	≤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 1500 - H (B)	Rayong
Temperature *	Degree C	-	-	29.6	≤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	286	≤3000	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Total Kjeldahl Nitrogen as N	mg/L	-	1.0	7.7	≤100	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 4500-Horg (C), part 4510 (D)	Rayong

Technical Management	N. Banphit	Approved by	D. Chongchon
	Narumon Banchoangkit Supervisor		Dej Chongchon Senior Manager
	ติดต่อ : 323-9-9445		ติดต่อ : 323-9-9442

Results apply to the sample(s) as submitted, unless the sample was conducted by ALS. No part of this report may be reproduced in any form without written consent from the laboratory.

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Analysis / Test Report

Client : Siam Synthetic Latex Co., Ltd.
8, Map Ta Phut Industrial Estate, 1-4 Road, Map ta phut, Muang, Rayong Thailand 21150
P/O :
Project Name : Water Testing
Project Location: Map Ta Phut Latex (SSLC)
TESTING
No.0042
Lot ID: 23146706
Date Received : Jan 16, 2024
Date Reported : Jan 24, 2024
Report Number : 2872873-1

Page 2 of 2

Sample Number	23146706-1
Sample Date	Jan 10, 2024 8:55 AM
Sample Description	Wastewater
Location	Domestic Outlet
Date Analysis Commenced	Jan 16, 2024
Condition of Sample	Contained in two amber glass bottles, two glass vials 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	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 Resources 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 : Sansoon Khuyolsai ติดต่อ : 323-9-0005 , Thanasoun Namakumma ติดต่อ : 324-9-8592

Remark :
- LOD : Limit of Detection
- LOQ : Limit of Quantitation / LOR (Unit of Reporting)
- Analysis marked * is not included in scope of Accreditation ISO/IEC 17025.
- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management	N. Banphit	Approved by	D. Chongchon
	Narumon Banchoangkit Supervisor		Dej Chongchon Senior Manager
	ติดต่อ : 323-9-9445		ติดต่อ : 323-9-9442

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



Analysis / Test Report

Client : Siam Synthetic Latex Co., Ltd.
8, Map Ta Phut Industrial Estate, I-4 Road, Map ta phut, Muang, Rayong Thailand 21150
P/O :
Project Name : Water Testing
Project Location: Map Ta Phut_Latex (SSLC)
Lot ID: 23146706
Date Received : Jan 16, 2024
Date Reported : Jan 24, 2024
Report Number : 2872873-2

Page 1 of 1

Sample Number 23146706-1
Sampled Date Jan 10, 2024 8:55 AM
Sample Description Wastewater
Location Domestic Outlet
Date Analysis Commenced Jan 18, 2024
Condition of Sample Contained in two amber glass bottles, two glass vials 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 Organic Carbon	mg/L	0.01	0.1	4.73	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 9210 B	Bangkok

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

Sampling By : Sansoen Khuiyokul , Thanasoun Namakunna
Remark :
- LOD : Limit of Detection
- " < " : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)

Approved by
Siriluk P.
Siriluk Puangpang
Section Head

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7790-621 EMAIL



Analysis / Test Report

Client : Siam Synthetic Latex Co., Ltd.
8, Map Ta Phut Industrial Estate, I-4 Road, Map ta phut, Muang, Rayong Thailand 21150
P/O :
Project Name : Water Testing
Project Location: Map Ta Phut_Latex (SSLC)
Lot ID: 23147863
Date Received : Feb 07, 2024
Date Reported : Feb 15, 2024
Report Number : 2911801-1

Page 1 of 2

Sample Number 23147863-1
Sampled Date Feb 07, 2024 9:35 AM
Sample Description Wastewater
Location Domestic Outlet
Date Analysis Commenced Feb 07, 2024
Condition of Sample Contained in two glass vials, two amber glass 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	12.8	≤20	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O C	Rayong
COD	mg/L	1.5	25	46	≤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	29	≤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	-	-	-	8.0	5.5-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	31.7	≤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	304	≤3000	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Kjeldahl Nitrogen as N	mg/L	-	1.0	11.6	≤100	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 4500-Norg (C), part NH3 (D)	Rayong

Technical Management
N. Banphit
Narumon Banchoangkit
Supervisor
วณิชญญ 323-9-945
Approved by
Dej Changchon
Senior Manager
วณิชญญ 323-9-942

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Analysis / Test Report

Client : Siam Synthetic Latex Co., Ltd.
8, Map Ta Phut Industrial Estate, 1-4 Road, Map ta phut, Muang, Rayong Thailand 21150
P/O :
Project Name : Water Testing
Project Location: Map Ta Phut_Latex (SSLC)

Page 2 of 2

Sample Number 23147863-1
Sampled Date Feb 07, 2024 9:35 AM
Sample Description Wastewater
Location Domestic Outlet
Date Analysis Commenced Feb 07, 2024
Condition of Sample Contained in two glass vials, two amber glass 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							
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	14	≤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 : Wanlop Hunchainaw วัฒนาพล หุ่นจั่น

Remark :
- LOD : Limit of Detection
- LOQ : Limit of Quantitation / LOR (Limit of Reporting)
- "C" : Lower than LOQ (Limit of Reporting)
- Antibiotic tested * (none not included in scope of Accreditation ISO/IEC 17025)
- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.



TESTING

Lot ID: 23147863
No.0042
Date Received : Feb 07, 2024
Date Reported : Feb 15, 2024
Report Number : 2911801-1

Page 2 of 2

Sample Number 23147863-1
Sampled Date Feb 07, 2024 9:35 AM
Sample Description Wastewater
Location Domestic Outlet
Date Analysis Commenced Feb 07, 2024
Condition of Sample Contained in two glass vials, two amber glass 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							
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	14	≤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 : Wanlop Hunchainaw วัฒนาพล หุ่นจั่น

Remark :
- LOD : Limit of Detection
- LOQ : Limit of Quantitation / LOR (Limit of Reporting)
- "C" : Lower than LOQ (Limit of Reporting)
- Antibiotic tested * (none not included in scope of Accreditation ISO/IEC 17025)
- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.



Analysis / Test Report

Client : Siam Synthetic Latex Co., Ltd.
8, Map Ta Phut Industrial Estate, 1-4 Road, Map ta phut, Muang, Rayong Thailand 21150
P/O :
Project Name : Water Testing
Project Location: Map Ta Phut_Latex (SSLC)

Page 1 of 1

Sample Number 23147863-1
Sampled Date Feb 07, 2024 9:35 AM
Sample Description Wastewater
Location Domestic Outlet
Date Analysis Commenced Feb 08, 2024
Condition of Sample Contained in two glass vials, two amber glass 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							
Total Organic Carbon	mg/L	0.01	0.1	8.24	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 5310 B	Bangkok

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

Sampling By : Wanlop Hunchainaw , Pattanapol Sawangpattam

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

Technical Management

N. Banphit
Narumon Banchoangkit
Supervisor
วัฒนาพร หุ่นจั่น 323-9-9445

Approved by

D. Chuan
Dej Changchion
Senior Manager
วัฒนาพร หุ่นจั่น 323-9-9442

Approved by

Siriluk P.
Siriluk Puengbang
Section Head

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Analysis / Test Report



TESTING
No.0042

Lot ID: 244509

Date Received : Mar 13, 2024

Date Reported : Mar 21, 2024

Report Number : 2894629-1

Client : Siam Synthetic Latex Co., Ltd.

8, Map Ta Phut Industrial Estate, I-4 Road, Map ta phut, Muang, Rayong Thailand 21150

P/O : 4515493615

Project Name : Water Testing

Project Location: Map Ta Phut_Latex (SSLC)

Sample Number 244509-1

Sampled Date Mar 13, 2024 8:45 AM

Sample Description Wastewater

Location Domestic Outlet

Date Analysis Commenced Mar 13, 2024

Condition of Sample Contained in two amber glass bottles, two glass vials 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 5200 - 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	19	≤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	18	≤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	-	-	30.9	≤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	360	≤3000	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Total Kjeldahl Nitrogen as N	mg/L	-	1.0	5.7	≤100	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 4500-Norg (C), part 4613 (D)	Rayong

Technical Management

N. Banphit

Narumon Banchongkit
Supervisor
ติดต่อ : ๐-๓๓๓-๐๙๔๕

Approved by

D. Chingchon

Dej Chingchon
Senior Manager
ติดต่อ : ๐-๓๓๓-๐๙๔๕

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789-61/ DML



Analysis / Test Report



TESTING
No.0042

Lot ID: 244509

Date Received : Mar 13, 2024

Date Reported : Mar 21, 2024

Report Number : 2894629-1

Client : Siam Synthetic Latex Co., Ltd.

8, Map Ta Phut Industrial Estate, I-4 Road, Map ta phut, Muang, Rayong Thailand 21150

P/O : 4515493615

Project Name : Water Testing

Project Location: Map Ta Phut_Latex (SSLC)

Sample Number 244509-1

Sampled Date Mar 13, 2024 8:45 AM

Sample Description Wastewater

Location Domestic Outlet

Date Analysis Commenced Mar 13, 2024

Condition of Sample Contained in two amber glass bottles, two glass vials 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	<5	≤50	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2550 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 : Raw data of COD value (Refer to Lot ID 244509-1) is 9.7 mg/L

Sampling By : Sansoon Khuyiksoi ติดต่อ : ๐-๓๓๓-๐๙๔๕ , Thanasorn Namakunna ติดต่อ : ๐-๓๓๓-๐๙๔๕

Remark :

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

Technical Management

N. Banphit

Narumon Banchongkit
Supervisor
ติดต่อ : ๐-๓๓๓-๐๙๔๕

Approved by

D. Chingchon

Dej Chingchon
Senior Manager
ติดต่อ : ๐-๓๓๓-๐๙๔๕

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789-61/ DML



Analysis / Test Report

Client : Siam Synthetic Latex Co., Ltd.
8, Map Ta Phut Industrial Estate, 1-4 Road, Map ta phut, Muang, Rayong Thailand 21150
P/O : 4515493615
Project Name : Water Testing
Project Location: Map Ta Phut_Latex (SSLC)

Page 1 of 1

Sample Number 244509-1
Sampled Date Mar 13, 2024 8:45 AM
Sample Description Wastewater
Location Domestic Outlet
Date Analysis Commenced Mar 15, 2024
Condition of Sample Contained in two amber glass bottles, two glass vials 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 Organic Carbon	mg/L	0.01	0.1	5.58	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5310 B	Bangkok

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

Note : Raw data of COD value (Refer to Lot ID 244509-1) is 9.7 mg/L

Sampling By : Sansoen Khuyoksuai , Thansoum Namakumma

Remark :

• LOD : Limit of Detection
• %* : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)

Approved by
Suwimon C.
Suwimon Chairuangwut
Scientist (3)

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S:090905, AB 05, 471 (1.4878)



Analysis / Test Report

Client : Siam Synthetic Latex Co., Ltd.
8, Map Ta Phut Industrial Estate, 1-4 Road, Map ta phut, Muang, Rayong Thailand 21150
P/O : 4515493615
Project Name : Water Testing
Project Location: Map Ta Phut_Latex (SSLC)

Page 1 of 2

Sample Number 2429384-1
Sampled Date Apr 03, 2024 9:25 AM
Sample Description Wastewater
Location Domestic Outlet
Date Analysis Commenced Apr 03, 2024
Condition of Sample Contained in two glass vials, two amber glass 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	7.8	≤20	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O	Rayong
COD	mg/L	1.5	25	39	≤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	29	≤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	-	-	33.2	≤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	308	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Total Kjeldahl Nitrogen as N	mg/L	-	1.0	28.8	≤100	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-Norg (C), part NH3 (D)	Rayong

Technical Management
N. Banphit
Narumon Banphongkit
Supervisor
nrmonum'3-323-a-94H5

Approved by
D. Chingchion
Dej Chingchion
Senior Manager
vstfmonum'3-323-a-94H2

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7700-641 (ENR)

S:090905, AB 05, 471 (2.7040)



Analysis / Test Report

Client : Siam Synthetic Latex Co., Ltd.
8, Map Ta Phut Industrial Estate, I-4 Road, Map ta phut, Muang, Rayong Thailand 21150
P/O : 4515493615
Project Name : Water Testing
Project Location : Map Ta Phut, Latex (SSLC)
Lot ID: 2429384
Date Received : Apr 03, 2024
Date Reported : Apr 11, 2024
Report Number : 2937301-1

Page 2 of 2

Sample Number 2429384-1
Sampled Date Apr 03, 2024 9:25 AM
Sample Description Wastewater
Location Domestic Outlet
Date Analysis Commenced Apr 03, 2024
Condition of Sample Contained in two glass vials, two amber glass 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							
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

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 02, B.E.2560 (2017).

Sampling By : Wanlop Hunchainaow รหัสประจำตัวพนักงาน 7-204-3-9457, Pattarapol Sawangjalaiam รหัสประจำตัวพนักงาน 7-204-3-0002

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

Technical Management N. Banphit N. Banphit
Supervisor Supervisor
รหัสประจำตัวพนักงาน 7-323-3-9445 รหัสประจำตัวพนักงาน 7-323-3-9445
Approved by Dej Chingchon
Senior Manager
รหัสประจำตัวพนักงาน 7-323-3-9442
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S:\Report_ML_Ct_08 (73394)



Analysis / Test Report

Client : Siam Synthetic Latex Co., Ltd.
8, Map Ta Phut Industrial Estate, I-4 Road, Map ta phut, Muang, Rayong Thailand 21150
P/O : 4515493615
Project Name : Water Testing
Project Location : Map Ta Phut, Latex (SSLC)
Lot ID: 2429384
Date Received : Apr 03, 2024
Date Reported : Apr 11, 2024
Report Number : 2937301-2

Sample Number 2429384-1
Sampled Date Apr 03, 2024 9:25 AM
Sample Description Wastewater
Location Domestic Outlet
Date Analysis Commenced Apr 04, 2024
Condition of Sample Contained in two glass vials, two amber glass 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							
Total Organic Carbon	mg/L	0.01	0.1	7.56	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 5310 B	Bangkok

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

Sampling By : Wanlop Hunchainaow รหัสประจำตัวพนักงาน 7-204-3-9457, Pattarapol Sawangjalaiam รหัสประจำตัวพนักงาน 7-204-3-0002

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

Approved by Sriluk P. Sriluk Bunhak
Section Head
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S:\Report_ML_Ct_08 (55494)



Analysis / Test Report



TESTING

No.0042

Lot ID: 2442700

Date Received : May 03, 2024

Date Reported : May 11, 2024

Report Number : 296718-1

Client : Siam Synthetic Latex Co., Ltd.

8, Map Ta Phut Industrial Estate, 1-4 Road, Map ta phut, Muang, Rayong Thailand 21150

P/O : 4515493615

Project Name : Water Testing

Project Location: Map Ta Phut Latex (SSLC)

Page 1 of 2

Sample Number	2442700-1
Sampled Date	May 03, 2024 9:35 AM
Sample Description	Wastewater
Location	Domestic Outlet
Date Analysis Commenced	May 03, 2024
Condition of Sample	Contained in one amber glass bottle, two glass vials and three plastic bottles, sample containers comply to pretreatment - preservation Standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	3.5	≤20	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 5200 - 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	21	≤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	21	≤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 5550 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	-	-	33.3	≤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	352	≤3000	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Total Kjeldahl Nitrogen as N	mg/L	-	1.0	6.4	≤100	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 4500-109 (C), part N43 (D)	Rayong

Technical Management: Narumon Banchoongkiet Supervisor วิไลวรรณ วัชร-323-9-9445

Approved by: Dej Chingchon Senior Manager วิไลวรรณ วัชร-323-9-9442

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Analysis / Test Report



TESTING

No.0042

Lot ID: 2442700

Date Received : May 03, 2024

Date Reported : May 11, 2024

Report Number : 296718-1

Client : Siam Synthetic Latex Co., Ltd.

8, Map Ta Phut Industrial Estate, 1-4 Road, Map ta phut, Muang, Rayong Thailand 21150

P/O : 4515493615

Project Name : Water Testing

Project Location: Map Ta Phut Latex (SSLC)

Page 2 of 2

Sample Number	2442700-1
Sampled Date	May 03, 2024 9:35 AM
Sample Description	Wastewater
Location	Domestic Outlet
Date Analysis Commenced	May 03, 2024
Condition of Sample	Contained in one amber glass bottle, two glass vials 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	<5	≤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 : Raw data of COD value (Refer to Lot ID 2442700-1) is 23.9 mg/L

Sampling By : Wanlop Hunchanaow วิไลวรรณ วัชร-323-9-9457, Thanassorn Namakunna วิไลวรรณ วัชร-204-9-0101

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

Technical Management: Narumon Banchoongkiet Supervisor วิไลวรรณ วัชร-323-9-9445

Approved by: Dej Chingchon Senior Manager วิไลวรรณ วัชร-323-9-9442

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Analysis / Test Report

Client : Siam Synthetic Latex Co., Ltd.
8, Map Ta Phut Industrial Estate, 1-4 Road, Map ta phut, Muang, Rayong Thailand 21150
P/O : 4515493615
Project Name : Water Testing
Project Location : Map Ta Phut_Latex (SSLC)
Lot ID: 2442700
Date Received : May 03, 2024
Date Reported : May 10, 2024
Report Number : 296718-2

Page 1 of 1

Sample Number	2442700-1
Sample Date	May 03, 2024 9:35 AM
Sample Description	Wastewater
Location	Domestic Outlet
Date Analysis Commenced	May 06, 2024
Condition of Sample	Contained in one amber glass bottle, two glass vials and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	Result (LOR)	Guideline / Specification	Method	Testing Location
Water Testing						
Total Organic Carbon	mg/L	0.01	0.1	5.87	No Standard	Bangkok

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

Sampling By : Wanlop Hunchalaow , Thanasoun Namakunna

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

Approved by Siriluk P.
Siriluk Bunmak
Section Head

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Analysis / Test Report

Client : Siam Synthetic Latex Co., Ltd.
8, Map Ta Phut Industrial Estate, 1-4 Road, Map ta phut, Muang, Rayong Thailand 21150
P/O : 4515493615
Project Name : Water Testing
Project Location : Map Ta Phut_Latex (SSLC)
Lot ID: 2455056
Date Received : Jun 05, 2024
Date Reported : Jun 13, 2024
Report Number : 2994691-1

Page 1 of 2

Sample Number	2455056-1
Sample Date	Jun 05, 2024 10:12 AM
Sample Description	Wastewater
Location	Domestic Outlet
Date Analysis Commenced	Jun 05, 2024
Condition of Sample	Contained in two amber glass bottles, two glass vials and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	Result (LOR)	Guideline / Specification	Method	Testing Location
Water Testing						
BOD (5 days at 20 Degree C)	mg/L	-	2.0	<2.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O 6	Rayong
COD	mg/L	1.5	25	<25	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	33	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	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	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
pH at 25 degree C		-	-	7.9	5.5-9.0	Rayong
Temperature *	Degree C	-	-	33.1	<40	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	324	<3000	Rayong
Total Kjeldahl Nitrogen as N	mg/L	-	1.0	8.8	<100	Rayong

Technical Management Thanita Kulsuriwong
Scientist (4)
vittidunam@ -323-9-9447

Approved by Dhanu
Dej Chianchon
Senior Manager
vittidunam@ -323-9-9442

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Analysis / Test Report

Client : Siam Synthetic Latex Co., Ltd.
8, Map Ta Phut Industrial Estate, 1-4 Road, Map ta phut, Muang, Rayong Thailand 21150
P/O : 451593615
Project Name : Water Testing
Project Location : Map Ta Phut_Latex (SSLC)

Page 2 of 2

Sample Number 2455656-1
Sampled Date Jun 05, 2024 10:12 AM
Sample Description Wastewater
Location Domestic Outlet
Date Analysis Commenced Jun 05, 2024
Condition of Sample Contained in two amber glass bottles, two glass vials 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	14	≤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 : Raw data of COD value (Refer to Lot ID 2455656-1) is 18.4 mg/L

Sampling By : Wanlop Hunchalaow รหัสประจำตัวพนักงาน 3-323-9-9457, Pattarapol Sawangjittam รหัสประจำตัวพนักงาน 3-204-9-0002

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

Technical Management

Tharitat.
Thanita Kulsurwong
Scientist (4)
รหัสประจำตัวพนักงาน 3-323-9-9447

Approved by

Dej Changchon
Senior Manager
รหัสประจำตัวพนักงาน 3-323-9-9442

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S (Report), AL G ref (1.13974)



Analysis / Test Report

Client : Siam Synthetic Latex Co., Ltd.
8, Map Ta Phut Industrial Estate, 1-4 Road, Map ta phut, Muang, Rayong Thailand 21150
P/O : 451593615
Project Name : Water Testing
Project Location : Map Ta Phut_Latex (SSLC)

Page 1 of 1

Sample Number 2455656-1
Sampled Date Jun 05, 2024 10:12 AM
Sample Description Wastewater
Location Domestic Outlet
Date Analysis Commenced Jun 07, 2024
Condition of Sample Contained in two amber glass bottles, two glass vials 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 Organic Carbon	mg/L	0.01	0.1	6.16	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 5310 B	Bangkok

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

Sampling By : Wanlop Hunchalaow , Pattarapol Sawangjittam

Remark :
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S (Report), AL G ref (1.13974)

Approved by
Suwimon C.
Suwimon Chaiwangwut
Scientist (3)



Analysis / Test Report

Client : Siam Polystyrene Co., Ltd.
8, Map Ta Phut Industrial Estate, 1-4 Road, Map ta phut, Muang, Rayong Thailand 21150
P/O :
Project Name : Water Testing
Project Location : Map Ta Phut_PS (SPCL)

Sample Number : 249833-1
Sample Date : Jan 26, 2024 9:50 AM
Sample Description : Wastewater
Location : ES-1890
Date Analysis Commenced : Jan 26, 2024
Condition of Sample : Contained in one amber glass bottle, two glass vials and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	Result	Guideline / Specification	Method	Testing Location
Water Testing BOD (5 days at 20 Degree C)	mg/L	-	<2.0	≤20	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed, 2017, part 5210 B, part 4500 O C	Rayong
COD	mg/L	1.5	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)	ADMT	-	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)	ADMT	-	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	≤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	-	-	7.9	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	-	27.9	≤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	-	868	≤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	-	6	≤50	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed, 2017, part 2540 D	Rayong

Technical Management

N. Banphit
Narumon Banchoangkit
Supervisor
ติดต่อ : 323-9-9445

Approved by

D. Chongchon
Dej Chongchon
Senior Manager
ติดต่อ : 323-9-9442

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Analysis / Test Report

Client : Siam Polystyrene Co., Ltd.
8, Map Ta Phut Industrial Estate, 1-4 Road, Map ta phut, Muang, Rayong Thailand 21150
P/O :
Project Name : Water Testing
Project Location : Map Ta Phut_PS (SPCL)

Lot ID: 249833
Date Received : Jan 26, 2024
Date Reported : Feb 01, 2024
Report Number : 2894639-1
TESTING No.0042
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 : Saneon Khuyokul วัฒโนวัฒน์ 3-323-9-0005, Thanassou Namakuma วัฒโนวัฒน์ 3-204-4-8592
Remark :
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- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

N. Banphit
Narumon Banchoangkit
Supervisor
ติดต่อ : 323-9-9445

Approved by

D. Chongchon
Dej Chongchon
Senior Manager
ติดต่อ : 323-9-9442

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Analysis / Test Report

Client : Siam Polystyrene Co., Ltd.
8, Map Ta Phut Industrial Estate, I-4 Road, Map ta phut, Muang, Rayong Thailand 21150
P/O : 470146605
Project Name : Water Testing
Project Location: Map Ta Phut_PS (SPCL)

Page 1 of 1

Sample Number 249833-1
Sampled Date Jan 26, 2024 9:50 AM
Sample Description Wastewater
Location ES-1890
Date Analysis Commenced Feb 01, 2024
Condition of Sample Contained in one amber glass bottle, two glass vials 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 Organic Carbon	mg/L	0.01	0.1	11.3	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 5310 B	Bangkok

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

Sampling By : Samsorn Khuyosai, Thansoon Namakunna

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

Approved by **Siriruk P.**
Siriruk Pienpang
Section Head

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7781-417 EMAIL S.Siriruk_P@als.co.th (+6699)



Analysis / Test Report

Client : Siam Polystyrene Co., Ltd.
8, Map Ta Phut Industrial Estate, I-4 Road, Map ta phut, Muang, Rayong Thailand 21150
P/O : 4515755108
Project Name : Water Testing
Project Location: Map Ta Phut_PS (SPCL)

Page 1 of 2

Sample Number 23147872-1
Sampled Date Feb 07, 2024 10:10 AM
Sample Description Wastewater
Location ES-1890
Date Analysis Commenced Feb 07, 2024
Condition of Sample Contained in two glass vials, two amber glass 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	42	≤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	-	-	-	8.1	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	-	-	30.8	≤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	860	≤3000	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	7	≤50	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

Technical Management **N. Banphit**
Narumon Banchoangkit
Supervisor
วิบูลณัฐ 3-323-9-9445

Approved by **D. Khunon**
Dej Changchon
Senior Manager
วิบูลณัฐ 3-323-9-9442

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Analysis / Test Report

Client : Siam Polystyrene Co., Ltd.
8, Map Ta Phut Industrial Estate, 1-4 Road, Map ta phut, Muang, Rayong Thailand 21150
P/O : 4515755108
Project Name : Water Testing
Project Location : Map Ta Phut, PS (SPCL)

TESTING
No.0042
Lot ID: 23147872

Date Received : Feb 07, 2024
Date Reported : Feb 15, 2024
Report Number : 2873670-1

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 : Wanlop Hunchalaow วณิชกุลวณิช 7204-3-0002

Remarks :
- 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.



TESTING
No.0042
Lot ID: 23147872

Date Received : Feb 07, 2024
Date Reported : Feb 15, 2024
Report Number : 2873670-1

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 : Wanlop Hunchalaow วณิชกุลวณิช 7204-3-0002

Remarks :
- LOD : Limit of Detection
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- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

N. Banphit

Narumon Banchoangkit
Supervisor
วณิชกุลวณิช 7203-3-9445

Approved by

D. Chongchon

Dej Chongchon
Senior Manager
วณิชกุลวณิช 7203-3-9442

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Analysis / Test Report

Client : Siam Polystyrene Co., Ltd.
8, Map Ta Phut Industrial Estate, 1-4 Road, Map ta phut, Muang, Rayong Thailand 21150
P/O : 4515755108
Project Name : Water Testing
Project Location : Map Ta Phut, PS (SPCL)

Lot ID: 23147872
Date Received : Feb 07, 2024
Date Reported : Feb 15, 2024
Report Number : 2873670-2

Page 1 of 1

Sample Number : 23147872-1

Sample Date : Feb 07, 2024 10:10 AM

Sample Description : Wastewater

Location : E5-1890

Date Analysis Commenced : Feb 08, 2024

Condition of Sample : Contained in two glass vials, two amber glass 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							
Total Organic Carbon	mg/L	0.01	0.1	13.3	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 5310 B	Bangkok

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

Sampling By : Wanlop Hunchalaow , Pattarapol Sawangjalarn

Remark :

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

Approved by

Siriluk P.

Siriluk Puangpang
Section Head

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Analysis / Test Report

Client : Siam Polystyrene Co., Ltd.
8, Map Ta Phut Industrial Estate, 1-4 Road, Map ta phut, Muang, Rayong Thailand 21150
P/O : 4515755108
Project Name : Water Testing
Project Location : Map Ta Phut PS (SPCL)

Sample Number 244518-1
Sampled Date Mar 06, 2024 10:40 AM
Sample Description Wastewater
Location ES-1890
Date Analysis Commenced Mar 06, 2024
Condition of Sample Contained in two amber glass bottles, two glass vials and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	Result	Guideline / Specification	Method	Testing Location
Water Testing						
BOD (5 days at 20 Degree C)	mg/L	-	2.0	≤2.0	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	≤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	≤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	≤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	≤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		-	-	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	-	-	≤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	≤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	≤50	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

Technical Management

N. Ban-phet
Narumon Banchongkiet
Supervisor
โทรศัพท์ ๖-323-๙-9445

Approved by

D. Chuan
Dej Chianchon
Senior Manager
โทรศัพท์ ๖-323-๙-9442

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Analysis / Test Report

Client : Siam Polystyrene Co., Ltd.
8, Map Ta Phut Industrial Estate, 1-4 Road, Map ta phut, Muang, Rayong Thailand 21150
P/O : 4515755108
Project Name : Water Testing
Project Location : Map Ta Phut PS (SPCL)

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 Hunchalainaw โทรศัพท์ ๖-323-๙-9457, Pattarajol Sawangtham โทรศัพท์ ๖-204-๙-0002

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

Technical Management

N. Ban-phet
Narumon Banchongkiet
Supervisor
โทรศัพท์ ๖-323-๙-9445

Approved by

D. Chuan
Dej Chianchon
Senior Manager
โทรศัพท์ ๖-323-๙-9442

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Analysis / Test Report

Client : Siam Polystyrene Co., Ltd.
8, Map Ta Phut Industrial Estate, 1-4 Road, Map ta phut, Muang, Rayong Thailand 21150
P/O : 4515755108
Project Name : Water Testing
Project Location: Map Ta Phut_PS (SPCL)

Lot ID: 244518

Date Received : Mar 06, 2024
Date Reported : Mar 14, 2024
Report Number : 2884641-2

Page 1 of 1

Sample Number	244518-1
Sampled Date	Mar 06, 2024 10:40 AM
Sample Description	Wastewater
Location	ES-1090
Date Analysis Commenced	Mar 13, 2024
Condition of Sample	Contained in two amber glass bottles, two glass vials 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 Organic Carbon	mg/L	0.01	0.1	12.6	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 5310 B	Bangkok

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

Sampling By : Wanlop Hunchaiyaw , Pattarapol Sawangjittam

Remark :

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

Approved by

Suwimon Chaiuangwut
Scientist (3)

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Analysis / Test Report

Client : Siam Polystyrene Co., Ltd.
8, Map Ta Phut Industrial Estate, 1-4 Road, Map ta phut, Muang, Rayong Thailand 21150
P/O : 4515755108
Project Name : Water Testing
Project Location: Map Ta Phut_PS (SPCL)

TESTING

No.0042

Lot ID: 2429399

Date Received : Apr 03, 2024
Date Reported : Apr 11, 2024
Report Number : 2937327-1

Page 1 of 2

Sample Number	2429399-1
Sampled Date	Apr 03, 2024 9:40 AM
Sample Description	Wastewater
Location	ES-1890
Date Analysis Commenced	Apr 03, 2024
Condition of Sample	Contained in two glass vials, one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	<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	37	≤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	12	≤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	11	≤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	-	-	32.3	≤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	896	≤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	6	≤50	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

Technical Management

Narumon Banchongkit
Supervisor
wittuduanai 7-323-a-9445

Approved by

Dej Changchion
Senior Manager
wittuduanai 7-323-n-9442

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Analysis / Test Report

Client : Siam Polystyrene Co., Ltd.
8, Map Ta Phut Industrial Estate, I-4 Road, Map ta phut, Muang, Rayong Thailand 21150
P/O : 4515755108
Project Name : Water Testing
Project Location : Map Ta Phut_PS (SPCL)

Lot ID: 2429399
TESTING No.0042
Date Received : Apr 03, 2024
Date Reported : Apr 11, 2024
Report Number : 2937327-1

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 Hunchalaow วทันยาภิวัฒน์ 3-323-3-9457, Pattarapol Sawangjaitam วทันยาภิวัฒน์ 3-323-3-9457, Pattarapol Sawangjaitam วทันยาภิวัฒน์ 3-323-3-9457

Remark :
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- < : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- * : (N/A) marked * figure not included in scope of accreditation ISO/IEC 17025.
- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.



TESTING No.0042

Lot ID: 2429399
Date Received : Apr 03, 2024
Date Reported : Apr 11, 2024
Report Number : 2937327-1

Page 2 of 2

Technical Management

N. Ban-rit
Narumon Banichongkit
Supervisor
วทันยาภิวัฒน์ 3-323-3-9455

Approved by

D. Chingchon
Dej Chingchon
Senior Manager
วทันยาภิวัฒน์ 3-323-3-9442

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Analysis / Test Report

Client : Siam Polystyrene Co., Ltd.
8, Map Ta Phut Industrial Estate, I-4 Road, Map ta phut, Muang, Rayong Thailand 21150
P/O : 4515755108
Project Name : Water Testing
Project Location : Map Ta Phut_PS (SPCL)

Lot ID: 2429399
Date Received : Apr 03, 2024
Date Reported : Apr 11, 2024
Report Number : 2937327-2

Analyte	Unit	LOD (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing						
Total Organic Carbon	mg/L	0.01	0.1	13.3	No Standard	Bangkok

Guideline : Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017).
Sampling By : Wanlop Hunchalaow วทันยาภิวัฒน์ 3-323-3-9457, Pattarapol Sawangjaitam วทันยาภิวัฒน์ 3-323-3-9457, Pattarapol Sawangjaitam วทันยาภิวัฒน์ 3-323-3-9457

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

Approved by

S. Sriuk P.
Siriluk Bumak
Section Head

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Analysis / Test Report

Client : Siam Polystyrene Co., Ltd.
8, Map Ta Phut Industrial Estate, 1-4 Road, Map ta phut, Muang, Rayong Thailand 21150
P/O : 4515755108
Project Name : Water Testing
Project Location: Map Ta Phut_PS (SPCL)

TESTING
No.0042
Lot ID: 2442735
Date Received : May 02, 2024
Date Reported : May 10, 2024
Report Number : 2967786-1

Page 1 of 2

Sample Number	2442735-1						
Sample Date	May 02, 2024 9:20 AM						
Sample Description	Wastewater						
Location	ES-1890						
Date Analysis Commenced	May 02, 2024						
Condition of Sample	Contained in one amber glass bottle, two glass vials and three plastic bottles, sample containers comply to pretreatment preservation standards (APHA, USEPA)						
Analyte	Unit	LOD	LOQ (LOB)	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 5200 C	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	14	≤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	11	≤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		-	-	8.2	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	-	-	34.4	≤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	740	≤3000	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2510 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. Banphit
Narumon Banchoangkit
Supervisor
วิบูลย์ 3-323-9-9445

Approved by
Dej Changchon
Senior Manager
วิบูลย์ 3-323-9-9442

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7784-41 (FNA)

S. Waporn, AL. G. (T. 1.3309)



Analysis / Test Report

Client : Siam Polystyrene Co., Ltd.
8, Map Ta Phut Industrial Estate, 1-4 Road, Map ta phut, Muang, Rayong Thailand 21150
P/O : 4515755108
Project Name : Water Testing
Project Location: Map Ta Phut_PS (SPCL)

TESTING
No.0042
Lot ID: 2442735
Date Received : May 02, 2024
Date Reported : May 10, 2024
Report Number : 2967786-1

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 : Surawit Narapong วิบูลย์ 3-323-9-0011, Thanassou Namakuma วิบูลย์ 3-204-9-0101

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

Technical Management
N. Banphit
Narumon Banchoangkit
Supervisor
วิบูลย์ 3-323-9-9445

Approved by
Dej Changchon
Senior Manager
วิบูลย์ 3-323-9-9442

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7784-41 (FNA)

S. Waporn, AL. G. (T. 1.3309)



Analysis / Test Report

Client : Siam Polystyrene Co., Ltd.
8, Map Ta Phut Industrial Estate, I-4 Road, Map ta phut, Muang, Rayong Thailand 21150
P/O : 451575108
Project Name : Water Testing
Project Location: Map Ta Phut_PS (SPCL)
Sample Number 2442735-1
Sampled Date May 02, 2024 9:20 AM
Sample Description Wastewater
Location ES-1890
Date Analysis Commenced May 06, 2024
Condition of Sample Contained in one amber glass bottle, two glass vials and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Page 1 of 1

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Total Organic Carbon	mg/L	0.01	0.1	12.3	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5310 B	Bangkok

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

Remark :
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Approved by
Siriluk P.
Siriluk Bunrak
Section Head

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Analysis / Test Report

Client : Siam Polystyrene Co., Ltd.
8, Map Ta Phut Industrial Estate, I-4 Road, Map ta phut, Muang, Rayong Thailand 21150
P/O : 4515755108
Project Name : Water Testing
Project Location: Map Ta Phut_PS (SPCL)
Sample Number 2455746-1
Sampled Date Jun 05, 2024 9:50 AM
Sample Description Wastewater
Location ES-1890
Date Analysis Commenced Jun 05, 2024
Condition of Sample Contained in two amber glass bottles, two glass vials and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Page 1 of 2

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	3.5	≤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	30	≤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	18	≤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	16	≤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 3520 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	-	-	32.2	≤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	508	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	8	≤50	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

Technical Management
Photchanan S.
Photchanan Seeda
Scientist (4)
มือถือ 09-323-9-9446

Approved by
Dhuanee
Dej Changchion
Senior Manager
มือถือ 09-323-9-9442

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Analysis / Test Report

Client : Siam Polystyrene Co., Ltd.
8, Map Ta Phut Industrial Estate, I-4 Road, Map ta phut, Muang, Rayong Thailand 21150
P/O : 4515755108
Project Name : Water Testing
Project Location: Map Ta Phut_PS (SPCL)

TESTING
No.0042
Lot ID: 2455746
Date Received : Jun 05, 2024
Date Reported : Jun 13, 2024
Report Number: 2994860-1

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 : Wanlop Hunchanaow รหัสผู้ตรวจ 3-323-9-9457 , Pattarapol Sawangjalai รหัสผู้ตรวจ 3-204-4-0002

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



TESTING

No.0042
Lot ID: 2455746
Date Received : Jun 05, 2024
Date Reported : Jun 13, 2024
Report Number: 2994860-1

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 : Wanlop Hunchanaow รหัสผู้ตรวจ 3-323-9-9457 , Pattarapol Sawangjalai รหัสผู้ตรวจ 3-204-4-0002

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

Photchanas.

Photchanas Seeda
Scientist (4)

รหัสผู้ตรวจ 3-323-9-9446

Approved by

D. Chongchon

Daj Chongchon
Senior Manager

รหัสผู้ตรวจ 3-323-9-9442

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Analysis / Test Report

Client : Siam Polystyrene Co., Ltd.
8, Map Ta Phut Industrial Estate, I-4 Road, Map ta phut, Muang, Rayong Thailand 21150
P/O : 4515755108
Project Name : Water Testing
Project Location: Map Ta Phut_PS (SPCL)

Lot ID: 2455746
Date Received : Jun 05, 2024
Date Reported : Jun 13, 2024
Report Number : 2994860-2

Page 1 of 1

Sample Number 2455746-1
Sampled Date Jun 05, 2024 9:50 AM
Sample Description Wastewater
Location ES-1890
Date Analysis Commenced Jun 07, 2024
Condition of Sample Contained in two amber glass bottles, two glass vials 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 Organic Carbon	mg/L	0.01	0.1	10.8	No Standard	Standard Methods for the Examination of Water and Wastewater, 23rd ed., 2017, part 5310 B	Bangkok

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

Sampling By : Wanlop Hunchanaow , Pattarapol Sawangjalai

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

Approved by

Swimon C.

Swimon Chinnangwut
Scientist (3)

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Analysis / Test Report

Client : Siam Polystyrene Co., Ltd.
8, Map Ta Phut Industrial Estate, 1-4 Road, Map ta phut, Muang, Rayong Thailand 21150
P/O : 00081114
Project Name : Water Testing
Project Location: Map Ta Phut_PS (SCL)

Page 1 of 2

Sample Number	244504-1			
Sampling Date	Mar 06, 2024	10:12 AM		
Sample Description	Wastewater			
Location	Outfall			
Date Analysis Commenced	Mar 06, 2024			
Condition of Sample	Contained in six glass vials, three amber glass bottles and eight 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 5200 - O G	Rayong
COD	mg/L	1.5	25	28	≤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	17	≤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	17	≤300	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2120 F	Rayong
Cyanide as CN	mg/L	0.001	0.005	0.008	≤0.2	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 4500-CN (C, E)	Rayong
Formaldehyde	mg/L	0.03	0.1	Not Detected	≤1.0	Wastewater analysis manual, Environmental Engineering Association of Thailand, 4th ed, 2004	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		-	-	8.2	5.5-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Phenol	mg/L	0.005	0.01	Not Detected	≤1.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 5530 D	Rayong

Technical Management *N. Ban-phet* Approved by *D. Chumchon*
Narumon Banchoangkit Supervisor Senior Manager
โทรศัพท์ 3-323-9-9445

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Analysis / Test Report

Client : Siam Polystyrene Co., Ltd.
8, Map Ta Phut Industrial Estate, 1-4 Road, Map ta phut, Muang, Rayong Thailand 21150
P/O : 00081114
Project Name : Water Testing
Project Location: Map Ta Phut_PS (SCL)

Page 2 of 2

Sample Number	244504-1			
Sampling Date	Mar 06, 2024	10:12 AM		
Sample Description	Wastewater			
Location	Outfall			
Date Analysis Commenced	Mar 06, 2024			
Condition of Sample	Contained in six glass vials, three amber glass bottles and eight plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)			

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Residual Free Chlorine *	mg/L	-	0.1	<0.1	≤1.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 4500-Cl (F)	Rayong
Sulfide *	mg/L	-	0.5	<0.5	≤1.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 4500-S2 (C, F)	Rayong
Temperature *	Degree C	-	-	33.4	≤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	848	≤3000	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Total Kjeldahl Nitrogen as N	mg/L	-	1.0	1.1	≤100	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 4500-Norg (C), part 4500-Norg	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

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 Hanchaiwong, Pattarapol Sawangjitam

Remark :
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Technical Management *N. Ban-phet* Approved by *D. Chumchon*
Narumon Banchoangkit Supervisor Senior Manager
โทรศัพท์ 3-323-9-9445

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Analysis / Test Report

TESTING
No.0009

Client : Siam Polystyrene Co., Ltd.
8, Map Ta Phut Industrial Estate, I-4 Road, Map ta phut, Muang, Rayong Thailand 21150
P/O : 00081114
Project Name : Water Testing
Project Location : Map Ta Phut_PS (SPCL)
Lot ID: 244504
Date Received : Mar 06, 2024
Date Reported : Mar 30, 2024
Report Number : 2894612-2 C3

Page 1 of 5

Sample Number		244504-1					
Sampling Date	Mar 06, 2024 10:12 AM	Sample Description	Wastewater				
Location	Outfall	Date Analysis Commenced	Mar 07, 2024				
Condition of Sample Contained in six glass vials, three amber glass bottles and eight plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)							
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Arsenic	mg/L	0.0003	0.0005	0.003	≤0.25	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Barium	mg/L	0.0003	0.0005	0.26	≤1.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Cadmium	mg/L	0.0003	0.0005	0.001	≤0.03	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Copper	mg/L	0.0003	0.0005	0.005	≤2.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Hexavalent Chromium	mg/L	0.003	0.01	Not Detected	≤0.25	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3500-Cr B	Bangkok
Lead	mg/L	0.0003	0.0005	0.0009	≤0.2	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Manganese	mg/L	0.0003	0.0005	0.29	≤5.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Mercury	mg/L	0.0001	0.0005	Not Detected	≤0.005	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3112	Bangkok

Technical Management

Nant Somb
Nanthawadee Sombhoon
Specialist 1
ติดต่อเรา 7-204-0-0010

Approved by

Kankorn Anek
Senior Manager
ติดต่อเรา 7-204-0-0004

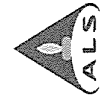
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Analysis / Test Report

TESTING
No.0009

Client : Siam Polystyrene Co., Ltd.
8, Map Ta Phut Industrial Estate, I-4 Road, Map ta phut, Muang, Rayong Thailand 21150
P/O : 00081114
Project Name : Water Testing
Project Location : Map Ta Phut_PS (SPCL)
Lot ID: 244504
Date Received : Mar 06, 2024
Date Reported : Mar 30, 2024
Report Number : 2894612-2 C3

Page 2 of 5

Sample Number		244504-1					
Sampling Date		Mar 06, 2024 10:12 AM					
Sample Description		Wastewater					
Location		Outfall					
Date Analysis Commenced		Mar 07, 2024					
Condition of Sample		Contained in six glass vials, three amber glass bottles and eight plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)					
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Nickel	mg/L	0.0003	0.0005	0.009	≤1.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Selenium	mg/L	0.0003	0.0005	<0.0005	≤0.02	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Trivalent Chromium *	mg/L	-	0.01	<0.01	≤0.75	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Zinc	mg/L	0.003	0.005	1.29	≤5.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Pesticides - Organochlorine Group							
2,4-DDD *	ug/L	0.01	0.02	Not Detected	Not Detected	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 6630 D, part 6410 B	Bangkok
2,4-DDE *	ug/L	0.01	0.02	Not Detected	Not Detected	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 6630 D, part 6410 B	Bangkok
2,4-DDT *	ug/L	0.01	0.02	Not Detected	Not Detected	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 6630 D, part 6410 B	Bangkok

Technical Management

Nant Somb
Nanthawadee Sombhoon
Specialist 1
ติดต่อเรา 7-204-0-0010

Approved by

Kankorn Anek
Senior Manager
ติดต่อเรา 7-204-0-0004

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6596-107/ENH



Analysis / Test Report

TESTING
No.0009

Client : Siam Polystyrene Co., Ltd.
8, Map Ta Phut Industrial Estate, 1-4 Road, Map ta phut, Muang, Rayong Thailand 21150
P/O : 00081114
Project Name : Water Testing
Project Location : Map Ta Phut_PS (SPCL)

Lot ID: 244504

Date Received : Mar 06, 2024
Date Reported : Mar 30, 2024
Report Number : 2884612-2 C3

Page 3 of 5

Sample Number	Sampling Date	Sample Description	Location	Date Analysis Commenced	Condition of Sample	Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
244504-1	Mar 06, 2024 10:12 AM	Wastewater	Outfall	Mar 07, 2024	Contained in six glass vials, three amber glass bottles and eight plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)	Pesticides - Organochlorine Group							
4,4-DDD *						ug/L	0.01	0.02	Not Detected	Not Detected	Not Detected	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 6630 D, part 6410 B	Bangkok
4,4-DDE *						ug/L	0.01	0.02	Not Detected	Not Detected	Not Detected	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 6630 D, part 6410 B	Bangkok
4,4-DDT *						ug/L	0.01	0.02	Not Detected	Not Detected	Not Detected	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 6630 D, part 6410 B	Bangkok
Aldrin *						ug/L	0.01	0.02	Not Detected	Not Detected	Not Detected	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 6630 D, part 6410 B	Bangkok
alpha BHC *						ug/L	0.01	0.02	Not Detected	Not Detected	Not Detected	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 6630 D, part 6410 B	Bangkok
beta BHC *						ug/L	0.01	0.02	Not Detected	Not Detected	Not Detected	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 6630 D, part 6410 B	Bangkok
Chlordane *						ug/L	0.02	0.04	Not Detected	Not Detected	Not Detected	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 6630 D, part 6410 B	Bangkok

Technical Management

Nant Somb
Nanthawadee Sombon
Specialist I
ติดต่อ : 2-204-3-0010

Approved by

Kanokorn Anek
Senior Manager
ติดต่อ : 2-204-3-0004

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Analysis / Test Report

TESTING
No.0009

Client : Siam Polystyrene Co., Ltd.
8, Map Ta Phut Industrial Estate, 1-4 Road, Map ta phut, Muang, Rayong Thailand 21150
P/O : 00081114
Project Name : Water Testing
Project Location : Map Ta Phut_PS (SPCL)

Lot ID: 244504

Date Received : Mar 06, 2024
Date Reported : Mar 30, 2024
Report Number : 2884612-2 C3

Page 4 of 5

Sample Number	Sampling Date	Sample Description	Location	Date Analysis Commenced	Condition of Sample	Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
244504-1	Mar 06, 2024 10:12 AM	Wastewater	Outfall	Mar 07, 2024	Contained in six glass vials, three amber glass bottles and eight plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)	Pesticides - Organochlorine Group							
delta-BHC *						ug/L	0.01	0.02	Not Detected	Not Detected	Not Detected	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 6630 D, part 6410 B	Bangkok
Dieldrin *						ug/L	0.01	0.02	Not Detected	Not Detected	Not Detected	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 6630 D, part 6410 B	Bangkok
Endosulfan I *						ug/L	0.01	0.02	Not Detected	Not Detected	Not Detected	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 6630 D, part 6410 B	Bangkok
Endosulfan II *						ug/L	0.01	0.02	Not Detected	Not Detected	Not Detected	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 6630 D, part 6410 B	Bangkok
Endrin *						ug/L	0.01	0.02	Not Detected	Not Detected	Not Detected	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 6630 D, part 6410 B	Bangkok
Hephalchlor *						ug/L	0.01	0.02	Not Detected	Not Detected	Not Detected	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 6630 D, part 6410 B	Bangkok
Hephalchlor-Epoxide *						ug/L	0.01	0.02	Not Detected	Not Detected	Not Detected	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 6630 D, part 6410 B	Bangkok

Technical Management

Nant Somb
Nanthawadee Sombon
Specialist I
ติดต่อ : 2-204-3-0010

Approved by

Kanokorn Anek
Senior Manager
ติดต่อ : 2-204-3-0004

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Analysis / Test Report

TESTING
No.0009

Client : Siam Polystyrene Co., Ltd.
8, Map Ta Phut Industrial Estate, 1-4 Road, Map ta phut, Muang, Rayong Thailand 21150
P/O : 00081114
Project Name : Water Testing
Project Location : Map Ta Phut_PS (SPCL)

Lot ID: 244504

Date Received : Mar 06, 2024
Date Reported : Mar 30, 2024
Report Number : 2884612-2 C3

Page 5 of 5

Sample Number	244504-1
Sampling Date	Mar 06, 2024 10:12 AM
Sample Description	Wastewater
Location	Outfall
Date Analysis Commenced	Mar 07, 2024
Condition of Sample	Contained in six glass vials, three amber glass bottles and eight plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Pesticides - Organochlorine Group							
Lindane (gamma-BHC) *	ug/L	0.01	0.02	Not Detected	Not Detected	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 6630 D, part 6410 B	Bangkok
Methoxychlor *	ug/L	0.01	0.02	Not Detected	Not Detected	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 6630 D, part 6410 B	Bangkok

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

Sampling By : Wanlop Hunchanaow, Pattarapol Sawangjantam

Remark :

- LOD : Limit of Detection
- * : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.

Technical Management

Nant Somb
Nanthawadee Somboon
Specialist 1
โทรศัพท์ 7-201-4-0010

Approved by

Kanokorn Anuk
Kanokorn Anuk
Senior Manager
โทรศัพท์ 7-201-4-0004

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Analysis / Test Report

TESTING
No.0009

Client : Siam Polystyrene Co., Ltd.
8, Map Ta Phut Industrial Estate, 1-4 Road, Map ta phut, Muang, Rayong Thailand 21150
P/O : 00081114
Project Name : Water Testing
Project Location : Map Ta Phut_PS (SPCL)

Lot ID: 244504

Date Received : Mar 06, 2024
Date Reported : Mar 30, 2024
Report Number : 2884612-3 C3

Page 1 of 4

Sample Number	244504-1
Sampling Date	Mar 06, 2024 10:12 AM
Sample Description	Wastewater
Location	Outfall
Date Analysis Commenced	Mar 07, 2024
Condition of Sample	Contained in six glass vials, three amber glass bottles and eight plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Phosphorus	mg/L	0.03	0.05	0.61	No Standard	In-house method : STM 05-014 based on United States Environmental Protection Agency, 1994, EPA Method 200.7	Bangkok
Pesticides - Organochlorine Group							
alpha-Chlordane *	ug/L	0.01	0.02	Not Detected	Not Detected	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 6630 D, part 6410 B	Bangkok
gamma-Chlordane *	ug/L	0.01	0.02	Not Detected	Not Detected	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 6630 D, part 6410 B	Bangkok
Hexachlorobenzene *	ug/L	0.01	0.02	Not Detected	Not Detected	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 6630 D, part 6410 B	Bangkok
Mirex *	ug/L	0.01	0.02	Not Detected	Not Detected	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 6630 D, part 6410 B	Bangkok
Volatile Organics Compounds							
1,1,1-Trichloroethane	ug/L	1.5	5	Not Detected	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 6200 B	Bangkok
1,1,2-Trichloroethane	ug/L	1.5	5	Not Detected	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 6200 B	Bangkok
1,1-Dichloroethylene	ug/L	1.5	5	Not Detected	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 6200 B	Bangkok

Approved by

Nant Somb
Nanthawadee Somboon
Specialist 1

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Analysis / Test Report



TESTING
No.0009

Client : Siam Polystyrene Co., Ltd.
8, Map Ta Phut Industrial Estate, 1-4 Road, Map ta phut, Muang, Rayong Thailand 21150
P/O : 00081114
Project Name : Water Testing
Project Location: Map Ta Phut_PS (SPCL)
Lot ID: 244504
Date Received : Mar 06, 2024
Date Reported : Mar 30, 2024
Report Number : 2884612-3 C3

Page 2 of 4

Sample Number	244504-1			
Sampling Date	Mar 06, 2024 10:12 AM	Sample Description	Wastewater	
Location	Outfall			
Date Analysis Commenced	Mar 07, 2024			
Condition of Sample	Contained in six glass vials, three amber glass bottles and eight plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)			

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Volatile Organics Compounds							
1,2-Dichloroethane	ug/L	1.5	5	Not Detected	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 6200 B	Bangkok
1,3-Dichloropropane *	ug/L	1.5	5	Not Detected	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 6200 B	Bangkok
Benzene	ug/L	1.5	5	Not Detected	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 6200 B	Bangkok
Bromodichloromethane *	ug/L	0.2	0.5	Not Detected	No Standard	In-house method based on United States Environmental Protection Agency, EPA Method 5030 B and 8260 D	Bangkok
Bromoform *	ug/L	0.2	0.5	Not Detected	No Standard	In-house method based on United States Environmental Protection Agency, EPA Method 5030 B and 8260 D	Bangkok
Carbontetrachloride	ug/L	1.5	5	Not Detected	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 6200 B	Bangkok
Chloroform *	ug/L	0.2	0.5	<0.5	No Standard	In-house method based on United States Environmental Protection Agency, EPA Method 5030 B and 8260 D	Bangkok
cis-1,2-Dichloroethylene	ug/L	1.5	5	Not Detected	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 6200 B	Bangkok
Dibromochloromethane *	ug/L	0.2	0.5	Not Detected	No Standard	In-house method based on United States Environmental Protection Agency, EPA Method 5030 B and 8260 D	Bangkok

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Analysis / Test Report



TESTING
No.0009

Client : Siam Polystyrene Co., Ltd.
8, Map Ta Phut Industrial Estate, 1-4 Road, Map ta phut, Muang, Rayong Thailand 21150
P/O : 00081114
Project Name : Water Testing
Project Location: Map Ta Phut_PS (SPCL)
Lot ID: 244504
Date Received : Mar 06, 2024
Date Reported : Mar 30, 2024
Report Number : 2884612-3 C3

Page 3 of 4

Sample Number	244504-1			
Sampling Date	Mar 06, 2024 10:12 AM	Sample Description	Wastewater	
Location	Outfall			
Date Analysis Commenced	Mar 07, 2024			
Condition of Sample	Contained in six glass vials, three amber glass bottles and eight plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)			

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Volatile Organics Compounds							
Ethylbenzene	ug/L	1.5	5	Not Detected	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 6200 B	Bangkok
Hexachlorobutadiene *	ug/L	1.5	5	Not Detected	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 6200 B	Bangkok
Methyl Chloride *	ug/L	1.5	5	Not Detected	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 6200 B	Bangkok
Methylene Chloride (Dichloromethane)	ug/L	1.5	5	Not Detected	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 6200 B	Bangkok
Styrene	ug/L	1.5	5	Not Detected	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 6200 B	Bangkok
Tetrachloroethylene	ug/L	1.5	5	Not Detected	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 6200 B	Bangkok
Toluene	ug/L	1.5	5	Not Detected	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 6200 B	Bangkok
Total Trihalomethanes *	ug/L	0.2	1	<1	No Standard	In-house method based on United States Environmental Protection Agency, EPA Method 5030 B and 8260 D	Bangkok
Total Xylene	ug/L	1.5	5	Not Detected	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 6200 B	Bangkok

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Analysis / Test Report

Client : Siam Polystyrene Co., Ltd.
8, Map Ta Phut Industrial Estate, I-4 Road, Map ta phut, Muang, Rayong Thailand 21150
P/O : 00081114
Project Name : Water Testing
Project Location: Map Ta Phut_PS (SPCL)

TESTING
No.0009
Lot ID: 244504
Date Received : Mar 06, 2024
Date Reported : Mar 30, 2024
Report Number : 2884612-3 C3

Page 4 of 4

Sample Number		244504-1					
Sampling Date	Mar 06, 2024 10:12 AM						
Sample Description	Wastewater						
Location	Outfall						
Date Analysis Commenced	Mar 07, 2024						
Condition of Sample	Contained in six glass vials, three amber glass bottles and eight plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Volatile Organics Compounds							
trans-1,2-Dichloroethylene	ug/L	1.5	5	Not Detected	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 6200 B	Bangkok
Trichloroethylene	ug/L	1.5	5	Not Detected	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 6200 B	Bangkok
Vinyl chloride (Chloroethylene)	ug/L	1.5	5	Not Detected	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 6200 B	Bangkok
Water Testing							
Total Organic Carbon *	mg/L	0.01	0.1	13.5	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 5310 B	Bangkok

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

Sampling By : Wanlop Hunchalaow , Pattarapol Sawangjalarn

Remark :
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- *_{eq} : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.

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Approved by

Nant Somb

Nanthawadee Sombon
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ภาคผนวก ค-5

คุณภาพน้ำใต้ดิน



Analysis / Test Report

Client : Siam Polystyrene Co., Ltd.
8, Map Ta Phut Industrial Estate, I-4 Road, Map ta phut, Muang, Rayong Thailand 21150
P/O : 4514158445
Project Name : Environmental Quality Monitoring
Project Location: Map Ta Phut_PS (SPCL)



TESTING
No.0042
Lot ID: 234199
Date Received : Oct 18, 2023
Date Reported : Oct 27, 2023
Report Number: 2541631-1

Page 1 of 1

Sample Number 234199-1
Sampled Date Oct 18, 2023 11:05 AM
Sample Description Groundwater
Location MW-3 (Near Latex Plant)
Date Analysis Commenced Oct 18, 2023
Condition of Sample Contained in one amber glass bottle, one plastic bottle and two glass vials, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing pH at 25 degree C			6.2	6.5-9.2 (1)	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 9500 - H (9)	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
(1): ในกรณีที่มีการปนเปื้อนของสารเคมีจากโรงงานอุตสาหกรรมหรือจากแหล่งกำเนิดอื่น ๆ ที่อาจก่อให้เกิดผลกระทบต่อสุขภาพของประชาชนหรือสิ่งแวดล้อมได้ หน่วยงานที่เกี่ยวข้องต้องดำเนินการตรวจสอบและประเมินความเสี่ยง และดำเนินการควบคุมและลดผลกระทบที่เกิดขึ้น

Sampling By : Wanlop Hunchaisaow วันที่เก็บ 23-3-2545

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

Technical Management

N. Banphit

Narumon Banchohgit
Supervisor
โทรศัพท์ 2-323-9-9445

Approved by

D. Chumman

Daj Changchon
Senior Manager
โทรศัพท์ 2-323-9-9442

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S. (Report), M. (C. rpt.) / 00499



Analysis / Test Report

Client : Siam Polystyrene Co., Ltd.
8, Map Ta Phut Industrial Estate, I-4 Road, Map ta phut, Muang, Rayong Thailand 21150
P/O : 4514158445
Project Name : Environmental Quality Monitoring
Project Location: Map Ta Phut_PS (SPCL)

Lot ID: 234199

Date Received : Oct 18, 2023
Date Reported : Oct 27, 2023
Report Number: 2541631-2

Page 1 of 1

Sample Number 234199-1
Sampled Date Oct 18, 2023 11:05 AM
Sample Description Groundwater
Location MW-3 (Near Latex Plant)
Date Analysis Commenced Oct 19, 2023
Condition of Sample Contained in one amber glass bottle, one plastic bottle and two glass vials, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing Conductivity at 25 Degree C	micromhos/cm		0.5	344	No Standard	Rayong
Total Organic Carbon	mg/L	0.01	0.1	3.24	No Standard	Bangkok
Total Petroleum Hydrocarbon	mg/L		3	<3	No Standard	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
Sampling By : Wanlop Hunchaisaow

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

Approved by

D. Chumman

Daj Changchon
Senior Manager

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S. (Report), M. (C. rpt.) / 00499



Analysis / Test Report

Client : Siam Polystyrene Co., Ltd.
8, Map Ta Phut Industrial Estate, I-4 Road, Map ta phut, Muang, Rayong Thailand 21150

P/O : 45145845

Project Name : Environmental Quality Monitoring

Project Location : Map Ta Phut_PS (SPCL)

Lot ID: 231242103

Date Received : Oct 20, 2023

Date Reported : Oct 27, 2023

Report Number : 2818092-2

Page 1 of 1

Sample Number	23122103-2
Sampled Date	Oct 20, 2023 9:50 AM
Sample Description	Groundwater
Location	MC-5 (Near PS Heater)
Date Analysis Commenced	Oct 24, 2023
Condition of Sample	Contained in two glass vials, 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							
Conductivity at 25 Degree C	micromhos/cm	-	0.5	437	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed. 2017, part 2510.8	Rayong

Parameter	Unit	0.01	0.1	2.03	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part §310 B	Bangkok
Total Organic Carbon	mg/L						
Total Petroleum Hydrocarbon	mg/L	-	3	<3	No Standard	In-house method based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF.	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
Sampling By : Wanlop Hunchainnow
Remark :

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

The above results were used only for this specific analysis and are not to be used in any other report or certificate. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand)

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Senior Manager

Life Sciences

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S (Report) AN Co. no. (2-5094)

Source: *U.S. Census Bureau, 1990*

ภาคผนวก ค-6

คุณภาพอากาศในสภาพแวดล้อมการทำงาน



Analysis / Test Report

Client : Siam Polystyrene Co., Ltd.
8, Map Ta Phut Industrial Estate, 1-4 Road, Map ta phut, Muang, Rayong Thailand
21150
P/O : 4515755108
Project Name : Environmental Quality Monitoring
Project Location : Map Ta Phut_PS (SPCL)

Lot ID: 2417905
Date Received : Mar 06, 2024
Date Reported : Mar 14, 2024
Report Number : 2911902-1

Page 1 of 4

Sample Number 2417905-2
Sampled Date Mar 05, 2024
Sample Description Air Quality
Location Polymerization
Date Analysis Commenced Mar 07, 2024
Condition of Sample Drawn into one filter paper placed in plastic cassette, one 10-L air sampling bag and one sorbent tube, refrigerated
Barometric Pressure 758 mmHg
Atmospheric Temperature 32.0 °C

Analyte	Sampled Date/Time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Methane as Propane	09:40 AM - 10:00 AM	ppm	-	0.33	1.03	No Standard	Total Hydrocarbon Analyzer	-	Rayong
Non Methane Hydrocarbon as Propane	09:40 AM - 10:00 AM	ppm	-	0.33	<0.33	No Standard	Total Hydrocarbon Analyzer	-	Rayong
Styrene	09:40 AM - 11:40 AM	ppm	-	0.05	<0.05	100	In-house method: STM 04-032 based on NIOSH Method 4th ed., NMAM, method 1501, issue 3, 2003 (Include sampling)	MOL	Bangkok
Total Dust	09:40 AM - 11:40 AM	mg/m3	-	0.15	<0.15	15	Based on NIOSH (1994), OSHA 0500	OSHA	Rayong
Total Hydrocarbon as Propane	09:40 AM - 10:00 AM	ppm	-	0.33	1.03	No Standard	Total Hydrocarbon Analyzer	-	Rayong

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)
OSHA : Occupational Safety and Health Administration
Sampled By : Sathaporn Thakern

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

Approved by

Orawan R.

Orawan Rakyong
Scientist (3)

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Analysis / Test Report

Client : Siam Polystyrene Co., Ltd.
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21150
P/O : 4515755108
Project Name : Environmental Quality Monitoring
Project Location : Map Ta Phut_PS (SPCL)

Lot ID: 2417905
Date Received : Mar 06, 2024
Date Reported : Mar 14, 2024
Report Number : 2911902-1

Page 2 of 4

Sample Number 2417905-3
Sampled Date Mar 05, 2024
Sample Description Air Quality
Location Devolatilization
Date Analysis Commenced Mar 07, 2024
Condition of Sample Drawn into one filter paper placed in plastic cassette, one 10-L air sampling bag and one sorbent tube, refrigerated
Barometric Pressure 758 mmHg
Atmospheric Temperature 32.0 °C

Analyte	Sampled Date/Time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Methane as Propane	09:45 AM - 10:05 AM	ppm	-	0.33	1.04	No Standard	Total Hydrocarbon Analyzer	-	Rayong
Non Methane Hydrocarbon as Propane	09:45 AM - 10:05 AM	ppm	-	0.33	<0.33	No Standard	Total Hydrocarbon Analyzer	-	Rayong
Styrene	09:45 AM - 11:45 AM	ppm	-	0.05	<0.05	100	In-house method: STM 04-032 based on NIOSH Method 4th ed., NMAM, method 1501, issue 3, 2003 (Include sampling)	MOL	Bangkok
Total Dust	09:45 AM - 11:45 AM	mg/m3	-	0.15	<0.15	15	Based on NIOSH (1994), OSHA 0500	OSHA	Rayong
Total Hydrocarbon as Propane	09:45 AM - 10:05 AM	ppm	-	0.33	1.04	No Standard	Total Hydrocarbon Analyzer	-	Rayong

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)
OSHA : Occupational Safety and Health Administration
Sampled By : Sathaporn Thakern

Remark :
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Approved by

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Scientist (3)

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Client : Siam Polystyrene Co., Ltd.
8, Map Ta Phut Industrial Estate, 1-4 Road, Map ta phut, Muang, Rayong Thailand
21150
P/O : 4515755108
Project Name : Environmental Quality Monitoring
Project Location : Map Ta Phut_PS (SPCL)

Lot ID: 2417905
Date Received : Mar 06, 2024
Date Reported : Mar 14, 2024
Report Number : 2911902-1

Page 3 of 4

Sample Number 2417905-4
Sampled Date Mar 05, 2024
Sample Description Air Quality
Location Finishing
Date Analysis Commenced Mar 07, 2024
Condition of Sample Drawn into one filter paper placed in plastic cassette, one 10-L air sampling bag and one sorbent tube, refrigerated
Barometric Pressure 758 mmHg
Atmospheric Temperature 32.0 °C

Analyte	Sampled Date/Time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Methane as Propane	09:30 AM - 09:50 AM	ppm	-	0.33	1.03	No Standard	Total Hydrocarbon Analyzer	-	Rayong
Non Methane Hydrocarbon as Propane	09:30 AM - 09:50 AM	ppm	-	0.33	<0.33	No Standard	Total Hydrocarbon Analyzer	-	Rayong
Styrene	09:30 AM - 11:30 AM	ppm	-	0.05	<0.05	100	In - house method : STM 04-432 based on NIOSH Method of Analytical Chemistry, 10th ed., NMAM, method 1501, Issue 3, 2003 (Include sampling)	MOL	Bangkok
Total Dust	09:30 AM - 11:30 AM	mg/m3	-	0.15	<0.15	15	Based on NIOSH (1994), OSHA 0500	OSHA	Rayong
Total Hydrocarbon as Propane	09:30 AM - 09:50 AM	ppm	-	0.33	1.03	No Standard	Total Hydrocarbon Analyzer	-	Rayong

Guideline :
MOL : Announcement of the Department of Labour Protection and Welfare on Threshold Limit Values of Hazardous Chemical Substances Dated August 3, B.E. 2550 (2007)
OSHA : Occupational Safety and Health Administration
Sampled By : Sathaporn Thakaw

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

Orawan R.

Approved by
Orawan Rakyong
Scientist (3)

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21150
P/O : 4515755108
Project Name : Environmental Quality Monitoring
Project Location : Map Ta Phut_PS (SPCL)

Lot ID: 2417905
Date Received : Mar 06, 2024
Date Reported : Mar 14, 2024
Report Number : 2911902-1

Page 4 of 4

Sample Number 2417905-5
Sampled Date Mar 05, 2024
Sample Description Air Quality
Location Packaging
Date Analysis Commenced Mar 07, 2024
Condition of Sample Drawn into one filter paper placed in plastic cassette, one 10-L air sampling bag and one sorbent tube, refrigerated
Barometric Pressure 758 mmHg
Atmospheric Temperature 32.0 °C

Analyte	Sampled Date/Time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Methane as Propane	09:35 AM - 09:55 AM	ppm	-	0.33	1.03	No Standard	Total Hydrocarbon Analyzer	-	Rayong
Non Methane Hydrocarbon as Propane	09:35 AM - 09:55 AM	ppm	-	0.33	<0.33	No Standard	Total Hydrocarbon Analyzer	-	Rayong
Styrene	09:35 AM - 11:35 AM	ppm	-	0.05	<0.05	100	In - house method : STM 04-432 based on NIOSH Method of Analytical Chemistry, 10th ed., NMAM, method 1501, Issue 3, 2003 (Include sampling)	MOL	Bangkok
Total Dust	09:35 AM - 11:35 AM	mg/m3	-	0.15	<0.15	15	Based on NIOSH (1994), OSHA 0500	OSHA	Rayong
Total Hydrocarbon as Propane	09:35 AM - 09:55 AM	ppm	-	0.33	1.03	No Standard	Total Hydrocarbon Analyzer	-	Rayong

Guideline :
MOL : Announcement of the Department of Labour Protection and Welfare on Threshold Limit Values of Hazardous Chemical Substances Dated August 3, B.E. 2550 (2007)
OSHA : Occupational Safety and Health Administration
Sampled By : Sathaporn Thakaw

Remark :
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Orawan R.

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Orawan Rakyong
Scientist (3)

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P/O : 4515755108
Project Name : Environmental Quality Monitoring
Project Location : Map Ta Phut_PS (SPCL)

Lot ID: 2429169
Date Received : Mar 26, 2024
Date Reported : Apr 03, 2024
Report Number : 2936601-1

Page 1 of 1

Sample Number 2429169-1
Sampled Date Mar 25, 2024
Sample Description Air Quality
Location RM Preparation
Date Analysis Commenced Mar 26, 2024
Condition of Sample Extracted into one 10-L air sampling bag, one filter paper placed in plastic cassette and one sorbent tube, refrigerated
Barometric Pressure 758 mmHg
Atmospheric Temperature 31.0 °C

Analyte	Sampled Date/Time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Methane as Propane	10:00 AM - 10:20 AM	ppm	-	0.33	0.99	No Standard	Total Hydrocarbon Analyzer	-	Rayong
Non Methane Hydrocarbon as Propane	10:00 AM - 10:20 AM	ppm	-	0.33	<0.33	No Standard	Total Hydrocarbon Analyzer	-	Rayong
Styrene	10:00 AM - 12:00 PM	ppm	-	0.05	0.20	100	In-house method : STM M-4032 based on NIOSH Method, 4th ed. NMAM, method 1501, issue 3, 2003 (Include sampling)	MOL	Bangkok
Total Dust	10:00 AM - 12:00 PM	mg/m ³	-	0.15	<0.15	15	Based on NIOSH (1994), OSHA B.E. 2560 (2017)	OSHA	Rayong
Total Hydrocarbon as Propane	10:00 AM - 10:20 AM	ppm	-	0.33	0.99	No Standard	Total Hydrocarbon Analyzer	-	Rayong

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)
OSHA : Occupational Safety and Health Administration
Sampled By : Chanon Booncheun

Remark :
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Orawan Rakyong
Scientist (3)

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Analysis / Test Report

Client : Siam Polystyrene Co., Ltd.
8, Map Ta Phut Industrial Estate, 1-4 Road, Map Ta Phut, Muang, Rayong Thailand
21150
P/O : 4515755108
Project Name : Environmental Quality Monitoring
Project Location : Map Ta Phut_PS (SPCL)

Lot ID: 2443269
Date Received : Jun 04, 2024
Date Reported : Jun 11, 2024
Report Number : 2968893-1

Page 1 of 5

Sample Number 2443269-1
Sampled Date Jun 04, 2024
Sample Description Air Quality
Location RM Preparation
Date Analysis Commenced Jun 05, 2024
Condition of Sample Drawn into one filter paper placed in plastic cassette, one 10-L air sampling bag and one sorbent tube, refrigerated
Barometric Pressure 757 mmHg
Atmospheric Temperature 32.0 °C

Analyte	Sampled Date/Time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Methane as Propane	10:00 AM - 10:20 AM	ppm	-	0.33	1.07	No Standard	Total Hydrocarbon Analyzer	-	Rayong
Non Methane Hydrocarbon as Propane	10:00 AM - 10:20 AM	ppm	-	0.33	<0.33	No Standard	Total Hydrocarbon Analyzer	-	Rayong
Styrene	10:00 AM - 12:00 PM	ppm	-	0.05	<0.05	100	In-house method : STM M-4032 based on NIOSH Method of Analytical Methods, 4th ed. NMAM, method 1501, issue 3, 2003 (Include sampling)	MOL	Bangkok
Total Dust	10:00 AM - 12:00 PM	mg/m ³	-	0.15	<0.15	15	Based on NIOSH (1994), OSHA B.E. 2560 (2017)	OSHA	Rayong
Total Hydrocarbon as Propane	10:00 AM - 10:20 AM	ppm	-	0.33	1.07	No Standard	Total Hydrocarbon Analyzer	-	Rayong

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)
OSHA : Occupational Safety and Health Administration
Sampled By : Sitippan Sanachiw

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

Approved by *Orawan R.*
Orawan Rakyong
Scientist (3)

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Analysis / Test Report

Client : Siam Polystyrene Co., Ltd.
8, Map Ta Phut Industrial Estate, I-4 Road, Map ta phut, Muang, Rayong Thailand
21150
P/O : 451575108
Project Name : Environmental Quality Monitoring
Project Location : Map Ta Phut_PS (SPCL)

Lot ID: 2443269
Date Received : Jun 04, 2024
Date Reported : Jun 11, 2024
Report Number : 2968883-1


Page 2 of 5

Sample Number 2443269-2
Sampled Date Jun 04, 2024
Sample Description Air Quality
Location Polymerization
Date Analysis Commenced Jun 05, 2024
Condition of Sample Drawn into one filter paper placed in plastic cassette, one 10-L air sampling bag and one sorbent tube, refrigerated
Barometric Pressure 757 mmHg
Atmospheric Temperature 32.0 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Methane as Propane	10:00 AM - 10:20 AM	ppm	-	0.33	1.05	No Standard	Total Hydrocarbon Analyzer	-	Rayong
Non Methane Hydrocarbon as Propane	10:00 AM - 10:20 AM	ppm	-	0.33	<0.33	No Standard	Total Hydrocarbon Analyzer	-	Rayong
Styrene	10:00 AM - 12:00 PM	ppm	-	0.05	<0.05	100	In-house method : STM 04-332 based on NIOSH Method of Analytical Methods, 4th ed., NMAM, method 1501, Issue 3, 2003 (Include sampling)	MOL	Bangkok
Total Dust	10:00 AM - 12:00 PM	mg/m3	-	0.15	0.7	15	Based on NIOSH (1994), 0500	OSHA	Rayong
Total Hydrocarbon as Propane	10:00 AM - 10:20 AM	ppm	-	0.33	1.05	No Standard	Total Hydrocarbon Analyzer	-	Rayong

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)
OSHA : Occupational Safety and Health Administration
Sampled By : Sittipan Sanachiw

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

Approved by 
Orawan Rakying
Scientist (3)

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Analysis / Test Report

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8, Map Ta Phut Industrial Estate, I-4 Road, Map ta phut, Muang, Rayong Thailand
21150
P/O : 451575108
Project Name : Environmental Quality Monitoring
Project Location : Map Ta Phut_PS (SPCL)

Lot ID: 2443269
Date Received : Jun 04, 2024
Date Reported : Jun 11, 2024
Report Number : 2968883-1

Page 3 of 5

Sample Number 2443269-3
Sampled Date Jun 04, 2024
Sample Description Air Quality
Location Devolatilization
Date Analysis Commenced Jun 05, 2024
Condition of Sample Drawn into one filter paper placed in plastic cassette, one 10-L air sampling bag and one sorbent tube, refrigerated
Barometric Pressure 757 mmHg
Atmospheric Temperature 32.0 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Methane as Propane	10:00 AM - 10:20 AM	ppm	-	0.33	1.06	No Standard	Total Hydrocarbon Analyzer	-	Rayong
Non Methane Hydrocarbon as Propane	10:00 AM - 10:20 AM	ppm	-	0.33	0.41	No Standard	Total Hydrocarbon Analyzer	-	Rayong
Styrene	10:00 AM - 12:00 PM	ppm	-	0.05	<0.05	100	In-house method : STM 04-332 based on NIOSH Method of Analytical Methods, 4th ed., NMAM, method 1501, Issue 3, 2003 (Include sampling)	MOL	Bangkok
Total Dust	10:00 AM - 12:00 PM	mg/m3	-	0.15	<0.15	15	Based on NIOSH (1994), 0500	OSHA	Rayong
Total Hydrocarbon as Propane	10:00 AM - 10:20 AM	ppm	-	0.33	1.47	No Standard	Total Hydrocarbon Analyzer	-	Rayong

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)
OSHA : Occupational Safety and Health Administration
Sampled By : Sittipan Sanachiw

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

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Orawan Rakying
Scientist (3)

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Analysis / Test Report

Client : Siam Polystyrene Co., Ltd.
8, Map Ta Phut Industrial Estate, 1-4 Road, Map ta phut, Muang, Rayong Thailand
21150
P/O : 4515755108
Date Received : Jun 04, 2024
Date Reported : Jun 11, 2024
Report Number : 2968883-1
Project Name : Environmental Quality Monitoring
Project Location : Map Ta Phut_PS (SRCL)

Lot ID: 2443269
Date Received : Jun 04, 2024
Date Reported : Jun 11, 2024
Report Number : 2968883-1

Page 4 of 5

2443269-4									
Sample Number	2443269-4	Sample Date	Jun 04, 2024	Sample Description	Air Quality	Location	Finishing	Date Analysis Commenced	Jun 05, 2024
Condition of Sample	Drawn into one filter paper placed in plastic cassette, one 10-L air sampling bag and one sorbent tube, refrigerated								
Barometric Pressure	757 mmHg	Atmospheric Temperature	32.0 °C						
Analyte	Sampled Date/Time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Methane as Propane	10:00 AM - 10:20 AM	ppm	-	0.33	1.07	No Standard	Total Hydrocarbon Analyzer	-	Rayong
Non Methane Hydrocarbon as Propane	10:00 AM - 10:20 AM	ppm	-	0.33	0.85	No Standard	Total Hydrocarbon Analyzer	-	Rayong
Styrene	10:00 AM - 12:00 PM	ppm	-	0.05	<0.05	100	In-house method - STM 04-032 based on NIOSH Manual of Analytical Methods, 4th ed., NMAM, method 1501, issue 3, 2003 (Include sampling)	MOL	Bangkok
Total Dust	10:00 AM - 12:00 PM	mg/m3	-	0.15	<0.15	15	Based on NIOSH (1994), 0500	OSHA	Rayong
Total Hydrocarbon as Propane	10:00 AM - 10:20 AM	ppm	-	0.33	1.92	No Standard	Total Hydrocarbon Analyzer	-	Rayong

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)
OSHA : Occupational Safety and Health Administration
Sampled By : Sittipan Sanachiw

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

Approved by
Orawan R.
Orawan Rakyong
Scientist (3)

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Analysis / Test Report

Client : Siam Polystyrene Co., Ltd.
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21150
P/O : 4515755108
Date Received : Jun 04, 2024
Date Reported : Jun 11, 2024
Report Number : 2968883-1
Project Name : Environmental Quality Monitoring
Project Location : Map Ta Phut_PS (SRCL)

Lot ID: 2443269
Date Received : Jun 04, 2024
Date Reported : Jun 11, 2024
Report Number : 2968883-1

Page 5 of 5

2443269-5									
Sample Number	2443269-5	Sample Date	Jun 04, 2024	Sample Description	Air Quality	Location	Packaging	Date Analysis Commenced	Jun 05, 2024
Condition of Sample	Drawn into one filter paper placed in plastic cassette, one 1-L air sampling bag and one sorbent tube, refrigerated								
Barometric Pressure	757 mmHg	Atmospheric Temperature	32.0 °C						
Analyte	Sampled Date/Time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Methane as Propane	10:00 AM - 10:20 AM	ppm	-	0.33	1.06	No Standard	Total Hydrocarbon Analyzer	-	Rayong
Non Methane Hydrocarbon as Propane	10:00 AM - 10:20 AM	ppm	-	0.33	0.42	No Standard	Total Hydrocarbon Analyzer	-	Rayong
Styrene	10:00 AM - 12:00 PM	ppm	-	0.05	<0.05	100	In-house method - STM 04-032 based on NIOSH Manual of Analytical Methods, 4th ed., NMAM, method 1501, issue 3, 2003 (Include sampling)	MOL	Bangkok
Total Dust	10:00 AM - 12:00 PM	mg/m3	-	0.15	<0.15	15	Based on NIOSH (1994), 0500	OSHA	Rayong
Total Hydrocarbon as Propane	10:00 AM - 10:20 AM	ppm	-	0.33	1.47	No Standard	Total Hydrocarbon Analyzer	-	Rayong

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)
OSHA : Occupational Safety and Health Administration
Sampled By : Sittipan Sanachiw

Remark :
- LOD : Limit of Detection
- "L" : 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 the written consent from the laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

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ภาคผนวก ค-7

ระดับเสียงในสถานที่ทำงาน



Analysis / Test Report

Client : Siam Polystyrene Co., Ltd.
8, Map Ta Phut Industrial Estate, I-4 Road, Map ta phut, Muang, Rayong Thailand 21150
P/O : 4515755108
Project Name : Environmental Quality Monitoring
Project Location : Map Ta Phut_PS (SPCL)
Lot ID: 2417918
Date Received : Mar 06, 2024
Date Reported : Mar 12, 2024
Report Number: 2933507-1

Page 1 of 1

Sample Number	2417918-1			
Parameter	Noise (Leq 8 hrs.)			
Location	NRU			
Measurement Date	Mar 05, 2024			
Measurement by	Kanlaphon Manessampan			
	Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
	09:30 AM - 10:30 AM	82.2	83.2	82.0
	10:30 AM - 11:30 AM	82.2	83.2	82.0
	11:30 AM - 12:30 PM	82.1	83.2	81.9
	12:30 PM - 01:30 PM	82.5	83.6	82.3
	01:30 PM - 02:30 PM	82.4	83.2	82.1
	02:30 PM - 03:30 PM	82.1	84.3	81.9
	03:30 PM - 04:30 PM	82.1	83.1	81.9
	04:30 PM - 05:30 PM	82.1	84.3	81.8

Technical Management *Thanitak.* Approved by *Supt S.*
Thanitak Kulsurwong Scientist (4) Supot Salameh Section Head

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Analysis / Test Report

Client : Siam Polystyrene Co., Ltd.
8, Map Ta Phut Industrial Estate, I-4 Road, Map ta phut, Muang, Rayong Thailand 21150
P/O : 4515755108
Project Name : Environmental Quality Monitoring
Project Location : Map Ta Phut_PS (SPCL)
Lot ID: 2417918
Date Received : Mar 06, 2024
Date Reported : Mar 12, 2024
Report Number: 2933508-1

Page 1 of 1

Sample Number	2417918-2			
Parameter	Noise (Leq 8 hrs.)			
Location	Transfer Blower			
Measurement Date	Mar 05, 2024			
Measurement by	Kanlaphon Manessampan			
	Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
	09:45 AM - 10:45 AM	86.8	91.0	86.5
	10:45 AM - 11:45 AM	85.2	87.0	84.7
	11:45 AM - 12:45 PM	83.3	84.3	83.2
	12:45 PM - 01:45 PM	82.0	85.6	81.7
	01:45 PM - 02:45 PM	78.7	81.0	78.6
	02:45 PM - 03:45 PM	83.1	84.5	82.9
	03:45 PM - 04:45 PM	80.0	84.1	79.5
	04:45 PM - 05:45 PM	77.5	85.3	76.9

Technical Management *Thanitak.* Approved by *Supt S.*
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Analysis / Test Report

Client: Siam Polystyrene Co., Ltd.
8, Map Ta Phut Industrial Estate, I-4 Road, Map ta phut, Muang, Rayong Thailand 21150
P/O : 451755108
Project Name : Environmental Quality Monitoring
Project Location : Map Ta Phut_PS (SPCL)

Lot ID: 2417918
Date Received : Mar 06, 2024
Date Reported : Mar 12, 2024
Report Number: 2933509-1

Page 1 of 1

Sample Number	2417918-3
Parameter	Noise (Leq 8 hrs.)
Location	Emergency Generator
Measurement Date	Mar 05, 2024
Measurement by	Kantaphon Maneesampan

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
09:55 AM - 10:55 AM	82.6	85.6	81.6
10:55 AM - 11:55 AM	81.8	84.6	81.0
11:55 AM - 12:55 PM	81.6	84.9	80.8
12:55 PM - 01:55 PM	82.5	86.3	80.6
01:55 PM - 02:55 PM	82.6	85.9	81.1
02:55 PM - 03:55 PM	82.5	86.0	81.0
03:55 PM - 04:55 PM	81.4	86.2	79.9
04:55 PM - 05:55 PM	79.7	83.2	78.9

Leq Average 8 hrs. (dB(A)) 81.9
Lmax (dB(A)) 86.7
Standard (dB(A)) 90
Reference Method : ISO 1996-1 and 1996-2
Standard : กรมควบคุมมลพิษ (ประเทศไทย) หรือ กรมควบคุมมลพิษ (ต่างประเทศ)
Turn to the nearest integer in the last digit of the measurement result.

Technical Management

Tharitat,
Thanita Kulsuriwong
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Analysis / Test Report

Client: Siam Polystyrene Co., Ltd.
8, Map Ta Phut Industrial Estate, I-4 Road, Map ta phut, Muang, Rayong Thailand 21150
P/O : 451755108
Project Name : Environmental Quality Monitoring
Project Location : Map Ta Phut_PS (SPCL)

Lot ID: 2417918
Date Received : Mar 06, 2024
Date Reported : Mar 12, 2024
Report Number: 2933510-1

Page 1 of 1

Sample Number	2417918-4
Parameter	Noise (Leq 8 hrs.)
Location	Pelletizer
Measurement Date	Mar 05, 2024
Measurement by	Kantaphon Maneesampan

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
09:48 AM - 10:48 AM	86.7	91.4	86.4
10:48 AM - 11:48 AM	86.5	91.9	86.2
11:48 AM - 12:48 PM	86.8	89.1	86.6
12:48 PM - 01:48 PM	86.7	87.5	86.5
01:48 PM - 02:48 PM	87.3	103.2	86.4
02:48 PM - 03:48 PM	86.8	93.7	86.5
03:48 PM - 04:48 PM	86.6	88.9	86.3
04:48 PM - 05:48 PM	86.7	89.7	86.4

Leq Average 8 hrs. (dB(A)) 86.8
Lmax (dB(A)) 103.2
Standard (dB(A)) 90
Reference Method : ISO 1996-1 and 1996-2
Standard : กรมควบคุมมลพิษ (ประเทศไทย) หรือ กรมควบคุมมลพิษ (ต่างประเทศ)
Turn to the nearest integer in the last digit of the measurement result.

Technical Management

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Analysis / Test Report

Client : Siam Polystyrene Co., Ltd.
8, Map Ta Phut Industrial Estate, I-4 Road, Map ta phut, Muang, Rayong Thailand 21150
P/O : 4515755108
Project Name : Environmental Quality Monitoring
Project Location : Map Ta Phut_PS (SPCL)

Lot ID: 2443271
Date Received : Jun 04, 2024
Date Reported : Jun 07, 2024
Report Number: 3016860-1

Page 1 of 1

Sample Number : 2443271-1
Parameter : Noise (Leq 8 hrs.)
Location : MRU
Measurement Date : Jun 04, 2024
Measurement by : Jittakorn Sivasa

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
09:00 AM - 10:00 AM	81.6	84.9	80.9
10:00 AM - 11:00 AM	81.0	86.9	80.2
11:00 AM - 12:00 PM	81.1	83.8	80.2
12:00 PM - 01:00 PM	80.9	83.6	80.2
01:00 PM - 02:00 PM	81.2	84.3	80.2
02:00 PM - 03:00 PM	80.9	84.9	80.1
03:00 PM - 04:00 PM	81.3	83.7	80.3
04:00 PM - 05:00 PM	81.3	85.4	80.4

Leq Average 8 hrs. (dB(A)) : 81.2
Lmax (dB(A)) : 86.9
Standard (dB(A)) : 90
Reference Method : ISO1996-1 and 1996-2
Standard : กรมควบคุมมลพิษ ราชบัณฑิตยสถาน กรุงเทพมหานคร
ตามประกาศกระทรวงมหาดไทย เรื่อง การตรวจวัดและประเมินผลกระทบสิ่งแวดล้อม พ.ศ.๒๕๖๐

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Tharitak Kulsurirong
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Section Head

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Analysis / Test Report

Client : Siam Polystyrene Co., Ltd.
8, Map Ta Phut Industrial Estate, I-4 Road, Map ta phut, Muang, Rayong Thailand 21150
P/O : 4515755108
Project Name : Environmental Quality Monitoring
Project Location : Map Ta Phut_PS (SPCL)

Lot ID: 2443271
Date Received : Jun 04, 2024
Date Reported : Jun 07, 2024
Report Number: 3016861-1

Page 1 of 1

Sample Number : 2443271-2
Parameter : Noise (Leq 8 hrs.)
Location : Transfer Blower
Measurement Date : Jun 04, 2024
Measurement by : Jittakorn Sivasa

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
09:00 AM - 10:00 AM	81.5	92.8	81.2
10:00 AM - 11:00 AM	81.6	85.8	81.4
11:00 AM - 12:00 PM	81.7	83.3	81.4
12:00 PM - 01:00 PM	81.7	93.0	81.4
01:00 PM - 02:00 PM	80.2	86.0	79.9
02:00 PM - 03:00 PM	77.3	88.6	77.0
03:00 PM - 04:00 PM	77.6	79.1	77.3
04:00 PM - 05:00 PM	77.5	78.9	77.2

Leq Average 8 hrs. (dB(A)) : 80.3
Lmax (dB(A)) : 93.0
Standard (dB(A)) : 90
Reference Method : ISO1996-1 and 1996-2
Standard : กรมควบคุมมลพิษ ราชบัณฑิตยสถาน กรุงเทพมหานคร
ตามประกาศกระทรวงมหาดไทย เรื่อง การตรวจวัดและประเมินผลกระทบสิ่งแวดล้อม พ.ศ.๒๕๖๐

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Analysis / Test Report

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P/O : 4515755108
Project Name : Environmental Quality Monitoring
Project Location : Map Ta Phut_PS (SPCL)

Lot ID: 2443271
Date Received : Jun 04, 2024
Date Reported : Jun 07, 2024
Report Number: 3016862-1

Page 1 of 1

Sample Number	2443271-3
Parameter	Noise (Leq 8 hrs.)
Location	Emergency Generator
Measurement Date	Jun 04, 2024
Measurement by	Jitakorn Siwasa
Time	Leq (dB(A)) L90 (dB(A))
09:00 AM - 10:00 AM	82.3 81.0
10:00 AM - 11:00 AM	85.6 87.2
11:00 AM - 12:00 PM	82.5 81.1
12:00 PM - 01:00 PM	86.5 81.1
01:00 PM - 02:00 PM	86.8 80.9
02:00 PM - 03:00 PM	82.7 80.7
03:00 PM - 04:00 PM	86.5 80.3
04:00 PM - 05:00 PM	82.1 80.5
05:00 PM - 06:00 PM	85.5 80.5
Leq Average 8 hrs. (dB(A))	82.5
Lmax (dB(A))	88.9
Standard (dB(A))	90

Reference Method : ISO1996-1 and 1996-2
Standard : กรมควบคุมมลพิษ พ.ร.บ. ๒๕๖๑
บันทึกผลการตรวจวัดค่าเสียง ณ สถานีวัดเสียง ๒๕๖๑

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Analysis / Test Report

Client : Siam Polystyrene Co., Ltd.
8, Map Ta Phut Industrial Estate, 1-4 Road, Map ta phut, Muang, Rayong Thailand 21150
P/O : 4515755108
Project Name : Environmental Quality Monitoring
Project Location : Map Ta Phut_PS (SPCL)

Lot ID: 2443271
Date Received : Jun 04, 2024
Date Reported : Jun 07, 2024
Report Number: 3016863-1

Page 1 of 1

Sample Number	2443271-4
Parameter	Noise (Leq 8 hrs.)
Location	Pollitizer
Measurement Date	Jun 04, 2024
Measurement by	Jitakorn Siwasa
Time	Leq (dB(A)) Lmax (dB(A)) L90 (dB(A))
09:00 AM - 10:00 AM	84.4 90.7 84.1
10:00 AM - 11:00 AM	84.2 90.5 83.9
11:00 AM - 12:00 PM	84.0 90.4 83.7
12:00 PM - 01:00 PM	83.9 90.2 83.6
01:00 PM - 02:00 PM	83.7 90.0 83.4
02:00 PM - 03:00 PM	83.5 89.8 83.2
03:00 PM - 04:00 PM	83.4 89.7 83.1
04:00 PM - 05:00 PM	83.4 89.6 83.1
Leq Average 8 hrs. (dB(A))	83.8
Lmax (dB(A))	90.7
Standard (dB(A))	140

Reference Method : ISO1996-1 and 1996-2
Standard : กรมควบคุมมลพิษ พ.ร.บ. ๒๕๖๑
บันทึกผลการตรวจวัดค่าเสียง ณ สถานีวัดเสียง ๒๕๖๑

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