

ภาคผนวก ค

ใบรับรองผลการตรวจวัดคุณภาพสิ่งแวดล้อม

ภาคผนวก ค-1

ผลการตรวจวิเคราะห์คุณภาพน้ำทิ้ง



Analysis / Test Report

TESTING

No.0042

Lot ID: 2374956

Date Received : Jul 10, 2023

Date Reported : Jul 18, 2023

Report Number : 2698918-1

Client : Dow Chemical Thailand Ltd.

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

P/O : 4514144155

Project Name : Water Testing

Project Location : Map Ta Phut_PU (PPTL)

Page 1 of 2

Sample Number	2374956-1
Sampled Date	Jul 10, 2023 10:15 AM
Sample Description	Wastewater
Location	H-304
Date Analysis Commenced	Jul 10, 2023
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	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	15	≤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 *		-	-	7.3	5.5-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	30.2	≤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	372	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	20	≤50	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

Technical Management

N. Banchongkit

Narumon Banchongkit

Supervisor

ทะเบียนเลขที่ ว-323-จ-9445

Approved by

D. Changchon

Dej Changchon

Senior Manager

ทะเบียนเลขที่ ว-323-ค-9442

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Analysis / Test Report

Client : Dow Chemical Thailand Ltd.

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

P/O : 4514144155

Project Name : Water Testing

Project Location: Map Ta Phut_PU (PPTL)

TESTING

No.0042

Lot ID: 2374956

Date Received : Jul 10, 2023

Date Reported : Jul 18, 2023

Report Number : 2698918-1

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 : Sansoen Khuiyoksui ทะเบียนเลขที่ ว-323-จ-0005 , Thanasoun Namakunna ทะเบียนเลขที่ ว-204-จ-8592

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

N. Banchongkit

Narumon Banchongkit

Supervisor

ทะเบียนเลขที่ ว-323-จ-9445

Approved by

D. Changchon

Dej Changchon

Senior Manager

ทะเบียนเลขที่ ว-323-ค-9442

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Analysis / Test Report

Client : Dow Chemical Thailand Ltd.

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

P/O : 4514144155

Project Name : Water Testing

Project Location : Map Ta Phut_PU (PPTL)

Lot ID: 2374956

Date Received : Jul 10, 2023

Date Reported : Jul 18, 2023

Report Number : 2698918-2

Page 1 of 1

Sample Number	2374956-1						
Sampled Date	Jul 10, 2023 10:15 AM						
Sample Description	Wastewater						
Location	H-304						
Date Analysis Commenced	Jul 12, 2023						
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							
Total Organic Carbon	mg/L	0.01	0.1	8.80	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 : Sansoen Khuiyoksui , Thanasoun Namakunna

Remark :

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Approved by

Nanthawadee Somboon
Specialist 1



Analysis / Test Report

TESTING

No.0042

Lot ID: 2387465

Date Received : Aug 02, 2023

Date Reported : Aug 10, 2023

Report Number : 2728725-1

Client : Dow Chemical Thailand Ltd.

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

P/O : 4514144155

Project Name : Water Testing

Project Location : Map Ta Phut_PU (PPTL)

Page 1 of 2

Sample Number	2387465-1
Sampled Date	Aug 02, 2023 10:00 AM
Sample Description	Wastewater
Location	H-304
Date Analysis Commenced	Aug 02, 2023
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	2.5	≤20	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	35	≤120	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Rayong
Color (at Original pH)	ADMI	-	5	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 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	-	-	32.1	≤40	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	298	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	<5	≤50	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

Technical Management

N. Banchongkit

Narumon Banchongkit

Supervisor

ทะเบียนเลขที่ ว-323-จ-9445

Approved by

D. Changchon

Dej Changchon

Senior Manager

ทะเบียนเลขที่ ว-323-ค-9442

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Analysis / Test Report

TESTING
No.0042

Client : Dow Chemical Thailand Ltd.

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

P/O : 4514144155

Project Name : Water Testing

Project Location: Map Ta Phut_PU (PPTL)

Lot ID: 2387465

Date Received : Aug 02, 2023

Date Reported : Aug 10, 2023

Report Number : 2728725-1

Page 2 of 2

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

Sampling By : Chainusorn Lertnanthakunchai ทะเบียนเลขที่ ว-323-จ-9461 , Pattarapol Sawangjaitam ทะเบียนเลขที่ ว-204-จ-0002

Remark :

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Technical Management

N. Banchongkit

Narumon Banchongkit
Supervisor

ทะเบียนเลขที่ ว-323-จ-9445

Approved by

D. Changchon

Dej Changchon
Senior Manager

ทะเบียนเลขที่ ว-323-ค-9442

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Analysis / Test Report

Client : Dow Chemical Thailand Ltd.

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

P/O : 4514144155

Project Name : Water Testing

Project Location: Map Ta Phut_PU (PPTL)

Lot ID: 2387465

Date Received : Aug 02, 2023

Date Reported : Aug 10, 2023

Report Number : 2728725-2

Page 1 of 1

Sample Number	2387465-1
Sampled Date	Aug 02, 2023 10:00 AM
Sample Description	Wastewater
Location	H-304
Date Analysis Commenced	Aug 04, 2023
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	9.07	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 : Chainusorn Lertnanthakunchai , Pattarapol Sawangjaitam

Remark :

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Approved by

Siriluk P.

Siriluk Puengpang
Section Head

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Analysis / Test Report

TESTING

No.0042

Lot ID: 23101142

Date Received : Sep 12, 2023

Date Reported : Sep 20, 2023

Report Number : 2759384-1

Client : Dow Chemical Thailand Ltd.

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

P/O : 4514144155

Project Name : Water Testing

Project Location : Map Ta Phut_PU (PPTL)

Page 1 of 2

Sample Number	23101142-1						
Sampled Date	Sep 12, 2023 9:55 AM						
Sample Description	Wastewater						
Location	H-304						
Date Analysis Commenced	Sep 12, 2023						
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	44	≤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	23	≤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 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	-	-	30.2	≤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	760	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	<5	≤50	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

Technical Management

N. Banchongkit

Narumon Banchongkit

Supervisor

ทะเบียนเลขที่ ว-323-จ-9445

Approved by

D. Changchon

Dej Changchon

Senior Manager

ทะเบียนเลขที่ ว-323-ค-9442

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Analysis / Test Report

Client : Dow Chemical Thailand Ltd.

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

P/O : 4514144155

Project Name : Water Testing

Project Location: Map Ta Phut_PU (PPTL)

TESTING

No.0042

Lot ID: 23101142

Date Received : Sep 12, 2023

Date Reported : Sep 20, 2023

Report Number : 2759384-1

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 : Tanasit Wongsachai ทะเบียนเลขที่ ว-323-จ-9460 , Thanasoun Namakunna ทะเบียนเลขที่ ว-204-จ-8592

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Technical Management

N. Banchongkit

Narumon Banchongkit

Supervisor

ทะเบียนเลขที่ ว-323-จ-9445

Approved by

D. Changchon

Dej Changchon

Senior Manager

ทะเบียนเลขที่ ว-323-ค-9442

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Analysis / Test Report

Client : Dow Chemical Thailand Ltd.

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

P/O : 4514144155

Project Name : Water Testing

Project Location: Map Ta Phut_PU (PPTL)

Lot ID: 23101142

Date Received : Sep 12, 2023

Date Reported : Sep 20, 2023

Report Number : 2759384-2

Page 1 of 1

Sample Number	23101142-1
Sampled Date	Sep 12, 2023 9:55 AM
Sample Description	Wastewater
Location	H-304
Date Analysis Commenced	Sep 14, 2023
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							
Total Organic Carbon	mg/L	0.01	0.1	14.1	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 : Tanasit Wongsachai , Thanasoun Namakunna

Remark :

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Approved by

Suwimon C.

Suwimon Chairuangwut
Scientist (3)

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Analysis / Test Report

TESTING

No.0042

Lot ID: 23111809

Date Received : Oct 04, 2023

Date Reported : Oct 12, 2023

Report Number : 2787417-1

Client : Dow Chemical Thailand Ltd.

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

P/O : 4514144155

Project Name : Water Testing

Project Location : Map Ta Phut_PU (PPTL)

Page 1 of 2

Sample Number	23111809-1
Sampled Date	Oct 04, 2023 9:45 AM
Sample Description	Wastewater
Location	H-304
Date Analysis Commenced	Oct 04, 2023
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	<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	9	≤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	8	≤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 *		-	-	7.1	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	-	-	28.6	≤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	82	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	<5	≤50	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

Technical Management

N. Banchongkit

Narumon Banchongkit

Supervisor

ทะเบียนเลขที่ ว-323-จ-9445

Approved by

D. Changchon

Dej Changchon

Senior Manager

ทะเบียนเลขที่ ว-323-ค-9442

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Analysis / Test Report

Client : Dow Chemical Thailand Ltd.

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

P/O : 4514144155

Project Name : Water Testing

Project Location: Map Ta Phut_PU (PPTL)

TESTING

No.0042

Lot ID: 23111809

Date Received : Oct 04, 2023

Date Reported : Oct 12, 2023

Report Number : 2787417-1

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).

Note : Raw data of COD value (Refer to Lot ID 23111809-1) is 20.3 mg/L

Sampling By : Chainusorn Lertnanthakunchai ทะเบียนเลขที่ ว-323-จ-9461 , Pattarapol Sawangjaitam ทะเบียนเลขที่ ว-204-จ-0002

Remark :

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

Technical Management

N. Banchongkit

Narumon Banchongkit

Supervisor

ทะเบียนเลขที่ ว-323-จ-9445

Approved by

D. Changchon

Dej Changchon

Senior Manager

ทะเบียนเลขที่ ว-323-ค-9442

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Analysis / Test Report

Client : Dow Chemical Thailand Ltd.

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

P/O : 4514144155

Project Name : Water Testing

Project Location: Map Ta Phut_PU (PPTL)

Lot ID: 23111809

Date Received : Oct 04, 2023

Date Reported : Oct 12, 2023

Report Number : 2787417-2

Page 1 of 1

Sample Number	23111809-1
Sampled Date	Oct 04, 2023 9:45 AM
Sample Description	Wastewater
Location	H-304
Date Analysis Commenced	Oct 06, 2023
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	3.00	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 23111809-1) is 20.3 mg/L

Sampling By : Chainusorn Lertnanthakunchai , Pattarapol Sawangjaitam

Remark :

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

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Approved by

Siriluk P.

Siriluk Puengpang
Section Head

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Analysis / Test Report

TESTING

No.0042

Lot ID: 23125162

Date Received : Nov 01, 2023

Date Reported : Nov 09, 2023

Report Number : 2817733-1

Client : Dow Chemical Thailand Ltd.

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

P/O : 4514144155

Project Name : Water Testing

Project Location : Map Ta Phut_PU (PPTL)

Page 1 of 2

Sample Number	23125162-1
Sampled Date	Nov 01, 2023 10:10 AM
Sample Description	Wastewater
Location	H-304
Date Analysis Commenced	Nov 01, 2023
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	<2.0	≤20	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	<25	≤120	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Rayong
Color (at Original pH)	ADMI	-	5	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	13	≤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 *		-	-	7.9	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	-	-	28.9	≤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	198	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	<5	≤50	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

Technical Management

N. Banchongkit

Narumon Banchongkit

Supervisor

ทะเบียนเลขที่ ว-323-จ-9445

Approved by

D. Changchon

Dej Changchon

Senior Manager

ทะเบียนเลขที่ ว-323-ค-9442

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Analysis / Test Report

Client : Dow Chemical Thailand Ltd.

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

P/O : 4514144155

Project Name : Water Testing

Project Location: Map Ta Phut_PU (PPTL)

TESTING

No.0042

Lot ID: 23125162

Date Received : Nov 01, 2023

Date Reported : Nov 09, 2023

Report Number : 2817733-1

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).

Note : Raw data of COD value (Refer to Lot ID 23125162-1) is 22.5 mg/L

Sampling By : Sansoen Khuiyoksui ทะเบียนเลขที่ ว-323-จ-0005 , Thanasoun Namakunna ทะเบียนเลขที่ ว-204-จ-8592

Remark :

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Technical Management

N. Banchongkit

Narumon Banchongkit

Supervisor

ทะเบียนเลขที่ ว-323-จ-9445

Approved by

D. Changchon

Dej Changchon

Senior Manager

ทะเบียนเลขที่ ว-323-ค-9442

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Analysis / Test Report

Client : Dow Chemical Thailand Ltd.

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

P/O : 4514144155

Project Name : Water Testing

Project Location : Map Ta Phut_PU (PPTL)

Lot ID: 23125162

Date Received : Nov 01, 2023

Date Reported : Nov 08, 2023

Report Number : 2817733-2

Page 1 of 1

Sample Number	23125162-1						
Sampled Date	Nov 01, 2023 10:10 AM						
Sample Description	Wastewater						
Location	H-304						
Date Analysis Commenced	Nov 02, 2023						
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	4.96	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 : Sansoen Khuiyoksui , Thanasoun Namakunna

Remark :

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

Approved by

Siriluk P.

Siriluk Puengpang
Section Head

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Analysis / Test Report

TESTING

No.0042

Lot ID: 23136426

Date Received : Dec 06, 2023

Date Reported : Dec 14, 2023

Report Number : 2843038-1

Client : Dow Chemical Thailand Ltd.

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

P/O : 4514144155

Project Name : Water Testing

Project Location : Map Ta Phut_PU (PPTL)

Page 1 of 2

Sample Number	23136426-1						
Sampled Date	Dec 06, 2023 9:05 AM						
Sample Description	Wastewater						
Location	H-304						
Date Analysis Commenced	Dec 06, 2023						
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	41	≤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 *		-	-	8.8	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	-	-	29.3	≤40	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	448	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	5	≤50	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

Technical Management

N. Banongkit

Narumon Banchongkit

Supervisor

ทะเบียนเลขที่ ๖-323-๙-9445

Approved by

D. Changchon

Dej Changchon

Senior Manager

ทะเบียนเลขที่ ๖-323-๙-9442

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Analysis / Test Report

Client : Dow Chemical Thailand Ltd.

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

P/O : 4514144155

Project Name : Water Testing

Project Location: Map Ta Phut_PU (PPTL)

TESTING

No.0042

Lot ID: 23136426

Date Received : Dec 06, 2023

Date Reported : Dec 14, 2023

Report Number : 2843038-1

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 : Sansoen Khuiyoksui ทะเบียนเลขที่ ว-323-จ-0005 , Thanasoun Namakunna ทะเบียนเลขที่ ว-204-จ-8592

Remark :

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Technical Management

N. Banchongkit

Narumon Banchongkit
Supervisor

ทะเบียนเลขที่ ว-323-จ-9445

Approved by

D. Changchon

Dej Changchon
Senior Manager

ทะเบียนเลขที่ ว-323-ค-9442

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Analysis / Test Report

Client : Dow Chemical Thailand Ltd.

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

P/O : 4514144155

Project Name : Water Testing

Project Location: Map Ta Phut_PU (PPTL)

Lot ID: 23136426

Date Received : Dec 06, 2023

Date Reported : Dec 13, 2023

Report Number : 2843038-2

Page 1 of 1

Sample Number	23136426-1						
Sampled Date	Dec 06, 2023 9:05 AM						
Sample Description	Wastewater						
Location	H-304						
Date Analysis Commenced	Dec 07, 2023						
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	13.7	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 : Sansoen Khuiyoksui , Thanasoun Namakunna

Remark :

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

Approved by

Siriluk P.

Siriluk Puenggang
Section Head

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Analysis / Test Report

TESTING
No.0042

Client : Dow Chemical Thailand Ltd.

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

P/O : 00081289

Project Name : Water Testing

Project Location : Map Ta Phut_PU (PPTL)

Lot ID: 2374966

Date Received : Jul 05, 2023

Date Reported : Jul 14, 2023

Report Number : 2698945-1 C4

Page 1 of 2

Sample Number	2374966-1						
Sampling Date	Jul 05, 2023 10:55 AM						
Sample Description	Wastewater						
Location	Outfall						
Date Analysis Commenced	Jul 05, 2023						
Condition of Sample	Contained in six glass vials, two amber glass bottles and seven 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	32	≤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	12	≤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	-	-	34.5	≤40	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	780	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	<5	≤50	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

Technical Management

N. Banchongkit

Narumon Banchongkit

Supervisor

ทะเบียนเลขที่ ว-323-จ-9445

Approved by

D. Changchon

Dej Changchon

Senior Manager

ทะเบียนเลขที่ ว-323-ค-9442

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Analysis / Test Report

TESTING
No.0042

Client : Dow Chemical Thailand Ltd.

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

P/O : 00081289

Project Name : Water Testing

Project Location: Map Ta Phut_PU (PPTL)

Lot ID: 2374966

Date Received : Jul 05, 2023

Date Reported : Jul 14, 2023

Report Number : 2698945-1 C4

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 : Pathompong Kornawat, Thanasoun Namakunna

Remark :

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- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.

Technical Management

N. Banchongkit

Narumon Banchongkit

Supervisor

ทะเบียนเลขที่ ว-323-จ-9445

Approved by

D. Changchon

Dej Changchon

Senior Manager

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Analysis / Test Report

Client : Dow Chemical Thailand Ltd.

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

P/O : 00081289

Project Name : Water Testing

Project Location : Map Ta Phut_PU (PPTL)

Lot ID: 2374966

Date Received : Jul 05, 2023

Date Reported : Jul 14, 2023

Report Number : 2698945-3 C4

Page 1 of 1

Sample Number	2374966-1						
Sampling Date	Jul 05, 2023 10:55 AM						
Sample Description	Wastewater						
Location	Outfall						
Date Analysis Commenced	Jul 06, 2023						
Condition of Sample	Contained in six glass vials, two amber glass bottles and seven 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	12.5	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 : Pathompong Kornawat , Thanasoun Namakunna

Remark :

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

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Approved by

Chanatt L.

Chanattagarn Imchom
Section Head

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Analysis / Test Report

TESTING

No.0042

Lot ID: 2387806

Date Received : Aug 02, 2023

Date Reported : Aug 11, 2023

Report Number : 2729290-1 C4

Client : Dow Chemical Thailand Ltd.

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

P/O : 00081289

Project Name : Water Testing

Project Location : Map Ta Phut_PU (PPTL)

Page 1 of 2

Sample Number	2387806-1						
Sampling Date	Aug 02, 2023 10:58 AM						
Sample Description	Wastewater						
Location	Outfall						
Date Analysis Commenced	Aug 02, 2023						
Condition of Sample	Contained in six glass vials, two amber glass bottles and seven 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	36	≤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	13	≤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	-	-	33.0	≤40	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	552	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	<5	≤50	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

Technical Management

N. Banchongkit

Narumon Banchongkit

Supervisor

ทะเบียนเลขที่ ว-323-จ-9445

Approved by

D. Changchon

Dej Changchon

Senior Manager

ทะเบียนเลขที่ ว-323-ค-9442

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Analysis / Test Report

TESTING
No.0042

Client : Dow Chemical Thailand Ltd.

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

P/O : 00081289

Project Name : Water Testing

Project Location: Map Ta Phut_PU (PPTL)

Lot ID: 2387806

Date Received : Aug 02, 2023

Date Reported : Aug 11, 2023

Report Number : 2729290-1 C4

Page 2 of 2

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

Sampling By : Chainusorn Lertnanthakunchai, Pattarapol Sawangjaitam

Remark :

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

Technical Management

N. Banchongkit

Narumon Banchongkit

Supervisor

ทะเบียนเลขที่ ว-323-จ-9445

Approved by

D. Changchon

Dej Changchon

Senior Manager

ทะเบียนเลขที่ ว-323-ค-9442

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Analysis / Test Report

Client : Dow Chemical Thailand Ltd.

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

P/O : 00081289

Project Name : Water Testing

Project Location : Map Ta Phut_PU (PPTL)

Lot ID: 2387806

Date Received : Aug 02, 2023

Date Reported : Aug 11, 2023

Report Number : 2729290-3 C4

Page 1 of 1

Sample Number	2387806-1						
Sampling Date	Aug 02, 2023 10:58 AM						
Sample Description	Wastewater						
Location	Outfall						
Date Analysis Commenced	Aug 04, 2023						
Condition of Sample	Contained in six glass vials, two amber glass bottles and seven 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	12.3	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 : Chainusorn Lertnanthakunchai , Pattarapol Sawangjaitam

Remark :

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

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Approved by

Siriluk P.

Siriluk Puengpang
Section Head

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Analysis / Test Report

TESTING

No.0042

Lot ID: 23101147

Date Received : Sep 06, 2023

Date Reported : Sep 18, 2023

Report Number : 2759393-1 C4

Client : Dow Chemical Thailand Ltd.

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

P/O : 00081289

Project Name : Water Testing

Project Location : Map Ta Phut_PU (PPTL)

Page 1 of 2

Sample Number	23101147-1
Sampling Date	Sep 06, 2023 10:25 AM
Sample Description	Wastewater
Location	Outfall
Date Analysis Commenced	Sep 06, 2023
Condition of Sample	Contained in one BOD bottle, six glass vials, three amber glass bottles and eight plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property	Yellow, some odour, solid and no turbid

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	13	≤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	10	≤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	-	-	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	876	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	<5	≤50	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

Technical Management

N. Banchongkit

Narumon Banchongkit

Supervisor

ทะเบียนเลขที่ ว-323-จ-9445

Approved by

D. Changchon

Dej Changchon

Senior Manager

ทะเบียนเลขที่ ว-323-ค-9442

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Analysis / Test Report

TESTING
No.0042

Lot ID: 23101147

Date Received : Sep 06, 2023

Date Reported : Sep 18, 2023

Report Number : 2759393-1 C4

Client : Dow Chemical Thailand Ltd.

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

P/O : 00081289

Project Name : Water Testing

Project Location: Map Ta Phut_PU (PPTL)

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 Hunchainaow ทะเบียนเลขที่ ว-323-จ-9457 , Thanasoun Namakunna ทะเบียนเลขที่ ว-204-จ-8592

Remark :

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

N. Banchongkit

Narumon Banchongkit

Supervisor

ทะเบียนเลขที่ ว-323-จ-9445

Approved by

D. Changchon

Dej Changchon

Senior Manager

ทะเบียนเลขที่ ว-323-ค-9442

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Analysis / Test Report

Client : Dow Chemical Thailand Ltd.

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

P/O : 00081289

Project Name : Water Testing

Project Location : Map Ta Phut_PU (PPTL)

Lot ID: 23101147

Date Received : Sep 06, 2023

Date Reported : Sep 18, 2023

Report Number : 2759393-3 C4

Page 1 of 1

Sample Number	23101147-1						
Sampling Date	Sep 06, 2023 10:25 AM						
Sample Description	Wastewater						
Location	Outfall						
Date Analysis Commenced	Sep 07, 2023						
Condition of Sample	Contained in one BOD bottle, six glass vials, three amber glass bottles and eight plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						
Physical Property	Yellow, some odour, solid and no turbid						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Total Organic Carbon	mg/L	0.01	0.1	12.7	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 , Thanasoun Namakunna

Remark :

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

Approved by

Sawitree N.

Sawitree Noisangiam
Manager

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Analysis / Test Report

TESTING

No.0042

Lot ID: 23111853

Date Received : Oct 04, 2023

Date Reported : Oct 24, 2023

Report Number : 2787450-1 C4

Client : Dow Chemical Thailand Ltd.

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

P/O : 00081289

Project Name : Water Testing

Project Location : Map Ta Phut_PU (PPTL)

Page 1 of 2

Sample Number	23111853-1						
Sampling Date	Oct 04, 2023 10:47 AM						
Sample Description	Wastewater						
Location	Outfall						
Date Analysis Commenced	Oct 04, 2023						
Condition of Sample	Contained in six glass vials, two amber glass bottles and seven plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	<2.0	≤20	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	<25	≤120	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Rayong
Color (at Original pH)	ADMI	-	5	10	≤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	8	≤300	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2120 F	Rayong
Oil & Grease *	mg/L	-	3	<3	≤5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
pH at 25 degree C *		-	-	7.5	5.5-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	29.3	≤40	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	216	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	<5	≤50	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

Technical Management

N. Banchongkit

Narumon Banchongkit

Supervisor

ทะเบียนเลขที่ ว-323-จ-9445

Approved by

D. Changchon

Dej Changchon

Senior Manager

ทะเบียนเลขที่ ว-323-ค-9442

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Analysis / Test Report

TESTING
No.0042

Lot ID: 2311853

Date Received : Oct 04, 2023

Date Reported : Oct 24, 2023

Report Number : 2787450-1 C4

Client : Dow Chemical Thailand Ltd.

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

P/O : 00081289

Project Name : Water Testing

Project Location: Map Ta Phut_PU (PPTL)

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).

Note : Raw data of COD value (Refer to Lot ID 2311853-1) is 20.48 mg/L

Sampling By : Chainusorn Lertnanthakunchai

Remark :

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- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.

Technical Management

N. Banchongkit

Narumon Banchongkit

Supervisor

ทะเบียนเลขที่ ว-323-จ-9445

Approved by

D. Changchon

Dej Changchon

Senior Manager

ทะเบียนเลขที่ ว-323-ค-9442

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Analysis / Test Report

Client : Dow Chemical Thailand Ltd.

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

P/O : 00081289

Project Name : Water Testing

Project Location: Map Ta Phut_PU (PPTL)

Lot ID: 23111853

Date Received : Oct 04, 2023

Date Reported : Oct 24, 2023

Report Number : 2787450-3 C4

Page 1 of 1

Sample Number	23111853-1						
Sampling Date	Oct 04, 2023 10:47 AM						
Sample Description	Wastewater						
Location	Outfall						
Date Analysis Commenced	Oct 05, 2023						
Condition of Sample	Contained in six glass vials, two amber glass bottles and seven 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	3.44	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 23111853-1) is 20.48 mg/L

Sampling By : Chainusorn Lertnanthakunchai

Remark :

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

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Approved by

Savitree N.

Savitree Noisangiam
Manager

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Analysis / Test Report

TESTING

No.0042

Lot ID: 23125166

Date Received : Nov 01, 2023

Date Reported : Nov 09, 2023

Report Number : 2817750-1 C4

Client : Dow Chemical Thailand Ltd.

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

P/O : 00081289

Project Name : Water Testing

Project Location : Map Ta Phut_PU (PPTL)

Page 1 of 2

Sample Number	23125166-1						
Sampling Date	Nov 01, 2023 11:15 AM						
Sample Description	Wastewater						
Location	Outfall						
Date Analysis Commenced	Nov 01, 2023						
Condition of Sample	Contained in one amber glass bottle, six glass vials and seven 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	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	16	≤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 *		-	-	8.0	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	-	-	32.0	≤40	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	764	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	<5	≤50	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

Technical Management

N. Banchongkit

Narumon Banchongkit

Supervisor

ทะเบียนเลขที่ ว-323-จ-9445

Approved by

D. Changchon

Dej Changchon

Senior Manager

ทะเบียนเลขที่ ว-323-ค-9442

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Analysis / Test Report

TESTING
No.0042

Lot ID: 23125166

Date Received : Nov 01, 2023

Date Reported : Nov 09, 2023

Report Number : 2817750-1 C4

Client : Dow Chemical Thailand Ltd.

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

P/O : 00081289

Project Name : Water Testing

Project Location: Map Ta Phut_PU (PPTL)

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 : Sansoen Khuiyoksui , Thanasoun Namakunna

Remark :

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

Technical Management

N. Banchongkit

Narumon Banchongkit

Supervisor

ทะเบียนเลขที่ ว-323-จ-9445

Approved by

D. Changchon

Dej Changchon

Senior Manager

ทะเบียนเลขที่ ว-323-ค-9442

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Analysis / Test Report

Client : Dow Chemical Thailand Ltd.

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

P/O : 00081289

Project Name : Water Testing

Project Location : Map Ta Phut_PU (PPTL)

Lot ID: 23125166

Date Received : Nov 01, 2023

Date Reported : Nov 09, 2023

Report Number : 2817750-3 C4

Page 1 of 1

Sample Number	23125166-1						
Sampling Date	Nov 01, 2023 11:15 AM						
Sample Description	Wastewater						
Location	Outfall						
Date Analysis Commenced	Nov 02, 2023						
Condition of Sample	Contained in one amber glass bottle, six glass vials and seven 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	9.89	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 : Sansoen Khuiyoksui , Thanasoun Namakunna

Remark :

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

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory, ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by

Sawitree N.

Sawitree Noisangiam
Manager

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Analysis / Test Report

TESTING

No.0042

Lot ID: 23136102

Date Received : Dec 06, 2023

Date Reported : Jan 03, 2024

Report Number : 2842940-1 C4

Client : Dow Chemical Thailand Ltd.

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

P/O : 00081289

Project Name : Water Testing

Project Location : Map Ta Phut_PU (PPTL)

Page 1 of 2

Sample Number	23136102-1						
Sampling Date	Dec 06, 2023 10:15 AM						
Sample Description	Wastewater						
Location	Outfall						
Date Analysis Commenced	Dec 06, 2023						
Condition of Sample	Contained in six glass vials, two amber glass bottles and seven plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	<2.0	≤20	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	31	≤120	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Rayong
Color (at Original pH)	ADMI	-	5	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	10	≤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	-	-	30.4	≤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	844	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	<5	≤50	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

Technical Management

N. Banongkit

Narumon Banchongkit

Supervisor

ทะเบียนเลขที่ ว-323-จ-9445

Approved by

D. Changchon

Dej Changchon

Senior Manager

ทะเบียนเลขที่ ว-323-ค-9442

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. No part of this report may be reproduced in any form without written consent from the laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

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Analysis / Test Report

TESTING

No.0042

Lot ID: 23136102

Date Received : Dec 06, 2023

Date Reported : Jan 03, 2024

Report Number : 2842940-1 C4

Client : Dow Chemical Thailand Ltd.

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

P/O : 00081289

Project Name : Water Testing

Project Location: Map Ta Phut_PU (PPTL)

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 : Sansoen Khuiyoksui , Thanasoun Namakunna

Remark :

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

Technical Management

N. Banphit

Narumon Banchongkit

Supervisor

ทะเบียนเลขที่ ว-323-จ-9445

Approved by

D. Changchon

Dej Changchon

Senior Manager

ทะเบียนเลขที่ ว-323-ค-9442

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Analysis / Test Report

Client : Dow Chemical Thailand Ltd.

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

P/O : 00081289

Project Name : Water Testing

Project Location : Map Ta Phut_PU (PPTL)

Lot ID: 23136102

Date Received : Dec 06, 2023

Date Reported : Jan 03, 2024

Report Number : 2842940-3 C4

Page 1 of 1

Sample Number	23136102-1						
Sampling Date	Dec 06, 2023 10:15 AM						
Sample Description	Wastewater						
Location	Outfall						
Date Analysis Commenced	Dec 07, 2023						
Condition of Sample	Contained in six glass vials, two amber glass bottles and seven 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	11.0	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 : Sansoen Khuiyoksui , Thanasoun Namakunna

Remark :

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

Approved by

Chanattagarn Imchom
Section Head

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ภาคผนวก ค-2

ผลการตรวจวัดระดับเสียงทั่วไปและระดับเสียงรบกวน



Analysis / Test Report

TESTING
No.0042

Client : Dow Chemical Thailand Ltd.

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

P/O :

Project Name : Environmental Quality Monitoring

Project Location : Map Ta Phut_PU (PPTL)

Lot ID: 2396879

Date Received : Aug 22, 2023

Date Reported : Aug 28, 2023

Report Number: 2759229-1

Page 1 of 1

Sample Number 2396879-1
Parameter Noise (Leq 24 hrs.)
Location ชุมชนตากวน-อ่าวประดู่ (GPS 47P 0735531, 1402769)
Measurement Date Aug 16 - Aug 17, 2023
Measurement by Saknarin Jaraskay
Sound Level meter Serial No. 900072

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
02:00 PM - 03:00 PM	53.7	72.2	48.5
03:00 PM - 04:00 PM	53.5	67.2	48.0
04:00 PM - 05:00 PM	54.8	73.3	50.5
05:00 PM - 06:00 PM	54.3	68.2	50.5
06:00 PM - 07:00 PM	54.8	74.6	50.1
07:00 PM - 08:00 PM	54.3	77.8	48.9
08:00 PM - 09:00 PM	53.7	78.5	47.8
09:00 PM - 10:00 PM	54.4	76.7	47.3
10:00 PM - 11:00 PM	52.1	75.8	46.3
11:00 PM - 12:00 AM	50.7	68.7	46.6
12:00 AM - 01:00 AM	52.9	76.7	45.8
01:00 AM - 02:00 AM	50.1	69.1	45.3
02:00 AM - 03:00 AM	47.4	63.7	44.7
03:00 AM - 04:00 AM	50.4	68.7	43.5
04:00 AM - 05:00 AM	50.9	68.3	43.2
05:00 AM - 06:00 AM	53.1	69.8	45.5
06:00 AM - 07:00 AM	55.3	72.0	50.1
07:00 AM - 08:00 AM	56.0	75.8	50.7
08:00 AM - 09:00 AM	54.5	70.1	49.8
09:00 AM - 10:00 AM	51.9	69.3	47.7
10:00 AM - 11:00 AM	55.4	74.8	51.0
11:00 AM - 12:00 PM	55.9	69.4	52.0
12:00 PM - 01:00 PM	54.7	69.9	50.5
01:00 PM - 02:00 PM	55.4	70.6	51.3

Leq Average 24 hrs. (dB(A)) 53.8
Lmax (dB(A)) 78.5
L90 (dB(A)) 48.0
Ldn (dB(A)) 58.9

Standard (dB(A)) 70 115

Reference Method : ISO1996-1 and 1996-2

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

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

Technical Management

Thanita K.

Thanita Kulsuriwong
Scientist (4)

Approved by

Supot S.

Supot Salamteh
Section Head

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Analysis / Test Report

TESTING
No.0042

Client : Dow Chemical Thailand Ltd.

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

P/O :

Project Name : Environmental Quality Monitoring

Project Location : Map Ta Phut_PU (PPTL)

Lot ID: 2396879

Date Received : Aug 22, 2023

Date Reported : Aug 28, 2023

Report Number: 2759230-1

Page 1 of 1

Sample Number 2396879-2
Parameter Noise (Leq 24 hrs.)
Location ชุมชนตากวน-อ่าวประดู่ (GPS 47P 0735531, 1402769)
Measurement Date Aug 17 - Aug 18, 2023
Measurement by Saknarin Jaraskay
Sound Level meter Serial No. 900072

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
02:00 PM - 03:00 PM	54.4	68.6	50.7
03:00 PM - 04:00 PM	54.4	71.9	49.4
04:00 PM - 05:00 PM	55.0	72.1	51.1
05:00 PM - 06:00 PM	55.5	75.5	51.7
06:00 PM - 07:00 PM	60.1	81.6	51.0
07:00 PM - 08:00 PM	54.8	72.3	49.8
08:00 PM - 09:00 PM	53.3	73.8	48.5
09:00 PM - 10:00 PM	52.0	72.2	46.4
10:00 PM - 11:00 PM	50.7	70.5	45.2
11:00 PM - 12:00 AM	51.3	74.9	46.0
12:00 AM - 01:00 AM	48.8	67.1	44.5
01:00 AM - 02:00 AM	50.7	76.3	43.4
02:00 AM - 03:00 AM	46.2	63.2	43.4
03:00 AM - 04:00 AM	47.1	66.0	42.8
04:00 AM - 05:00 AM	51.3	70.5	43.1
05:00 AM - 06:00 AM	54.1	69.6	46.1
06:00 AM - 07:00 AM	54.1	69.1	48.9
07:00 AM - 08:00 AM	55.2	70.9	50.2
08:00 AM - 09:00 AM	52.8	66.9	47.9
09:00 AM - 10:00 AM	52.7	76.0	46.8
10:00 AM - 11:00 AM	50.8	71.6	45.9
11:00 AM - 12:00 PM	52.7	69.3	47.1
12:00 PM - 01:00 PM	53.5	72.8	48.6
01:00 PM - 02:00 PM	53.0	65.7	48.7

Leq Average 24 hrs. (dB(A)) 53.6
Lmax (dB(A)) 81.6
L90 (dB(A)) 47.1
Ldn (dB(A)) 58.3
Standard (dB(A)) 70 115

Reference Method : ISO1996-1 and 1996-2

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

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

Technical Management

Thanita K.

Thanita Kulsuriwong
Scientist (4)

Approved by

Supot S.

Supot Salamteh
Section Head

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Analysis / Test Report

TESTING
No.0042

Client : Dow Chemical Thailand Ltd.

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

P/O :

Project Name : Environmental Quality Monitoring

Project Location : Map Ta Phut_PU (PPTL)

Lot ID: 2396879

Date Received : Aug 22, 2023

Date Reported : Aug 29, 2023

Report Number: 2759231-1

Page 1 of 1

Sample Number 2396879-3
Parameter Noise (Leq 24 hrs.)
Location ชุมชนตากวน-อ่าวประดู่ (GPS 47P 0735531, 1402769)
Measurement Date Aug 18 - Aug 19, 2023
Measurement by Saknarin Jaraskay
Sound Level meter Serial No. 900072

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
02:00 PM - 03:00 PM	52.4	72.3	46.8
03:00 PM - 04:00 PM	53.1	72.6	48.6
04:00 PM - 05:00 PM	55.2	75.0	50.7
05:00 PM - 06:00 PM	55.5	75.7	50.8
06:00 PM - 07:00 PM	60.7	81.0	50.1
07:00 PM - 08:00 PM	54.4	72.1	50.0
08:00 PM - 09:00 PM	53.2	71.9	48.4
09:00 PM - 10:00 PM	54.1	81.0	45.9
10:00 PM - 11:00 PM	51.7	73.0	45.5
11:00 PM - 12:00 AM	52.3	79.3	44.8
12:00 AM - 01:00 AM	51.2	74.8	44.5
01:00 AM - 02:00 AM	48.1	68.3	44.6
02:00 AM - 03:00 AM	50.5	74.4	43.7
03:00 AM - 04:00 AM	51.3	80.1	42.3
04:00 AM - 05:00 AM	50.7	69.2	42.4
05:00 AM - 06:00 AM	54.4	72.4	45.0
06:00 AM - 07:00 AM	54.5	70.9	48.7
07:00 AM - 08:00 AM	54.8	74.9	48.0
08:00 AM - 09:00 AM	51.7	69.4	45.4
09:00 AM - 10:00 AM	51.9	71.3	45.2
10:00 AM - 11:00 AM	50.8	68.4	45.5
11:00 AM - 12:00 PM	53.4	71.5	46.9
12:00 PM - 01:00 PM	52.7	71.7	46.9
01:00 PM - 02:00 PM	51.2	70.5	46.1

Leq Average 24 hrs. (dB(A)) 53.7
Lmax (dB(A)) 81.0
L90 (dB(A)) 45.9
Ldn (dB(A)) 58.9
Standard (dB(A)) 70 115

Reference Method : ISO1996-1 and 1996-2

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

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

Technical Management

Thanita K.

Thanita Kulsuriwong
Scientist (4)

Approved by

Supot S.

Supot Salamteh
Section Head

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Analysis / Test Report

TESTING
No.0042

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

Lot ID: 2396881
Date Received : Aug 22, 2023
Date Reported : Oct 20, 2023
Report Number : 2761730-1

P/O :
Project Name : Environmental Quality Monitoring
Project Location : Map Ta Phut_PU (PPTL)

Page 1 of 3

Sample No. 2396881-1
Parameter เสียงรบกวน
Location หมู่ชนตาหวาน-อ่าวประดู่ (GPS 47P 0735531, 1402769)
Measurement Date Aug 16 - 17, 2023
Measurement by Saknarin Jaraskay
Sound Level Meter 00900072

ระดับเสียง (dB(A))								
เวลา	(A)	(B)	(A-B)	(C)	(B)		(E)	(D-E)
	เสียงจากแหล่งกำเนิด	เสียงขณะไม่มีการรบกวน	ผลต่างระดับเสียง	ตัวปรับค่า	ปรับค่าเสียงจากแหล่งกำเนิด	เสียงพื้นฐาน	ค่าระดับการรบกวน	
					กลางวัน (A-C)	กลางคืน (A-C)+3		
02:00 PM - 03:00 PM	53.7	53.8	-0.1	7.0	46.7	-	46.4	0.3
03:00 PM - 04:00 PM	53.5	52.5	1.0	7.0	46.5	-	45.8	0.7
04:00 PM - 05:00 PM	54.8	53.7	1.1	7.0	47.8	-	48.3	-0.5
05:00 PM - 06:00 PM	54.3	54.1	0.2	7.0	47.3	-	49.4	-2.1
06:00 PM - 07:00 PM	54.8	56.7	-1.9	7.0	47.8	-	52.0	-4.2
07:00 PM - 08:00 PM	54.3	56.5	-2.2	7.0	47.3	-	52.4	-5.1
08:00 PM - 09:00 PM	53.7	57.4	-3.7	7.0	46.7	-	52.9	-6.2
09:00 PM - 10:00 PM	54.4	59.9	-5.5	7.0	47.4	-	57.4	-10.0
10:00 PM - 10:05 PM	50.7	59.5	-8.8	7.0	-	46.7	56.6	-9.9
10:05 PM - 10:10 PM	52.5	60.4	-7.9	7.0	-	48.5	59.2	-10.7
10:10 PM - 10:15 PM	57.1	59.3	-2.2	7.0	-	53.1	55.6	-2.5
10:15 PM - 10:20 PM	50.6	59.6	-9.0	7.0	-	46.6	57.1	-10.5
10:20 PM - 10:25 PM	53.7	59.8	-6.1	7.0	-	49.7	57.0	-7.3
10:25 PM - 10:30 PM	48.9	62.9	-14.0	7.0	-	44.9	56.6	-11.7
10:30 PM - 10:35 PM	50.2	59.3	-9.1	7.0	-	46.2	56.7	-10.5
10:35 PM - 10:40 PM	51.2	64.2	-13.0	7.0	-	47.2	57.2	-10.0
10:40 PM - 10:45 PM	49.5	59.3	-9.8	7.0	-	45.5	57.1	-11.6
10:45 PM - 10:50 PM	51.0	59.8	-8.8	7.0	-	47.0	57.7	-10.7
10:50 PM - 10:55 PM	52.2	58.8	-6.6	7.0	-	48.2	56.7	-8.5
10:55 PM - 11:00 PM	50.1	58.9	-8.8	7.0	-	46.1	56.7	-10.6
11:00 PM - 11:05 PM	52.4	58.3	-5.9	7.0	-	48.4	56.4	-8.0
11:05 PM - 11:10 PM	50.6	57.5	-6.9	7.0	-	46.6	52.7	-6.1
11:10 PM - 11:15 PM	49.2	57.6	-8.4	7.0	-	45.2	54.9	-9.7
11:15 PM - 11:20 PM	51.0	56.2	-5.2	7.0	-	47.0	52.8	-5.8
11:20 PM - 11:25 PM	51.5	56.4	-4.9	7.0	-	47.5	54.6	-7.1
11:25 PM - 11:30 PM	51.4	57.2	-5.8	7.0	-	47.4	54.0	-6.6
11:30 PM - 11:35 PM	51.6	57.2	-5.6	7.0	-	47.6	54.2	-6.6
11:35 PM - 11:40 PM	49.9	56.7	-6.8	7.0	-	45.9	53.0	-7.1
11:40 PM - 11:45 PM	51.9	55.7	-3.8	7.0	-	47.9	51.3	-3.4
11:45 PM - 11:50 PM	48.7	56.1	-7.4	7.0	-	44.7	51.6	-6.9
11:50 PM - 11:55 PM	50.3	55.0	-4.7	7.0	-	46.3	52.6	-6.3
11:55 PM - 12:00 AM	48.0	57.7	-9.7	7.0	-	44.0	51.0	-7.0
12:00 AM - 12:05 AM	52.6	55.5	-2.9	7.0	-	48.6	51.9	-3.3
12:05 AM - 12:10 AM	56.7	55.6	1.1	7.0	-	52.7	53.1	-0.4
12:10 AM - 12:15 AM	56.2	56.3	-0.1	7.0	-	52.2	52.0	0.2
12:15 AM - 12:20 AM	56.3	54.8	1.5	4.5	-	54.8	50.6	4.2
12:20 AM - 12:25 AM	50.0	54.9	-4.9	7.0	-	46.0	49.7	-3.7
12:25 AM - 12:30 AM	50.7	54.0	-3.3	7.0	-	46.7	51.3	-4.6
12:30 AM - 12:35 AM	47.1	56.9	-9.8	7.0	-	43.1	53.8	-10.7
12:35 AM - 12:40 AM	52.3	56.6	-4.3	7.0	-	48.3	54.5	-6.2

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Approved by

Wilawan Borirak

Wilawan Borirak
Manager



Analysis / Test Report

TESTING
No.0042

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

Lot ID: 2396881
Date Received : Aug 22, 2023
Date Reported : Oct 20, 2023
Report Number : 2761730-1

P/O :
Project Name : Environmental Quality Monitoring
Project Location : Map Ta Phut_PU (PPTL)

Page 2 of 3

Sample No. 2396881-1
Parameter เสียงรบกวน
Location หมู่ชนตาควน-อ่าวประดู่ (GPS 47P 0735531, 1402769)
Measurement Date Aug 16 - 17, 2023
Measurement by Saknarin Jaraskay
Sound Level Meter 00900072

ระดับเสียง (dB(A))								
เวลา	(A) เสียงจากแหล่งกำเนิด	(B) เสียงขณะไม่มีการรบกวน	(A-B) ผลต่างระดับเสียง	(C) ตัวปรับค่า	(D) ปรับค่าเสียงจากแหล่งกำเนิด		(E) เสียงพื้นฐาน	(D-E) ค่าระดับการรบกวน
					(A-C) กลางวัน	(A-C)+3 กลางคืน		
12:40 AM - 12:45 AM	47.8	56.8	-9.0	7.0	-	43.8	51.3	-7.5
12:45 AM - 12:50 AM	51.2	56.0	-4.8	7.0	-	47.2	51.1	-3.9
12:50 AM - 12:55 AM	49.9	55.2	-5.3	7.0	-	45.9	51.2	-5.3
12:55 AM - 01:00 AM	50.3	53.9	-3.6	7.0	-	46.3	50.5	-4.2
01:00 AM - 01:05 AM	49.3	53.6	-4.3	7.0	-	45.3	50.5	-5.2
01:05 AM - 01:10 AM	49.0	53.4	-4.4	7.0	-	45.0	50.9	-5.9
01:10 AM - 01:15 AM	49.5	54.1	-4.6	7.0	-	45.5	50.7	-5.2
01:15 AM - 01:20 AM	47.5	53.8	-6.3	7.0	-	43.5	50.8	-7.3
01:20 AM - 01:25 AM	51.7	55.1	-3.4	7.0	-	47.7	49.6	-1.9
01:25 AM - 01:30 AM	50.1	56.1	-6.0	7.0	-	46.1	53.7	-7.6
01:30 AM - 01:35 AM	52.4	56.6	-4.2	7.0	-	48.4	52.4	-4.0
01:35 AM - 01:40 AM	49.2	56.2	-7.0	7.0	-	45.2	52.1	-6.9
01:40 AM - 01:45 AM	54.1	55.0	-0.9	7.0	-	50.1	50.2	-0.1
01:45 AM - 01:50 AM	48.2	56.9	-8.7	7.0	-	44.2	53.4	-9.2
01:50 AM - 01:55 AM	46.6	58.3	-11.7	7.0	-	42.6	55.5	-12.9
01:55 AM - 02:00 AM	45.7	59.7	-14.0	7.0	-	41.7	56.1	-14.4
02:00 AM - 02:05 AM	46.8	60.9	-14.1	7.0	-	42.8	57.8	-15.0
02:05 AM - 02:10 AM	47.0	61.3	-14.3	7.0	-	43.0	59.0	-16.0
02:10 AM - 02:15 AM	46.9	58.7	-11.8	7.0	-	42.9	47.5	-4.6
02:15 AM - 02:20 AM	46.7	54.0	-7.3	7.0	-	42.7	47.4	-4.7
02:20 AM - 02:25 AM	46.6	56.8	-10.2	7.0	-	42.6	51.1	-8.5
02:25 AM - 02:30 AM	49.5	55.7	-6.2	7.0	-	45.5	46.2	-0.7
02:30 AM - 02:35 AM	47.2	60.3	-13.1	7.0	-	43.2	56.9	-13.7
02:35 AM - 02:40 AM	49.4	58.7	-9.3	7.0	-	45.4	48.3	-2.9
02:40 AM - 02:45 AM	46.2	61.0	-14.8	7.0	-	42.2	57.0	-14.8
02:45 AM - 02:50 AM	46.7	61.7	-15.0	7.0	-	42.7	59.2	-16.5
02:50 AM - 02:55 AM	47.3	62.0	-14.7	7.0	-	43.3	60.3	-17.0
02:55 AM - 03:00 AM	46.8	61.3	-14.5	7.0	-	42.8	58.5	-15.7
03:00 AM - 03:05 AM	48.8	61.5	-12.7	7.0	-	44.8	58.6	-13.8
03:05 AM - 03:10 AM	45.2	60.9	-15.7	7.0	-	41.2	56.9	-15.7
03:10 AM - 03:15 AM	44.3	58.8	-14.5	7.0	-	40.3	47.1	-6.8
03:15 AM - 03:20 AM	45.0	57.4	-12.4	7.0	-	41.0	48.9	-7.9
03:20 AM - 03:25 AM	45.0	59.7	-14.7	7.0	-	41.0	55.3	-14.3
03:25 AM - 03:30 AM	55.4	61.2	-5.8	7.0	-	51.4	58.2	-6.8
03:30 AM - 03:35 AM	48.2	61.5	-13.3	7.0	-	44.2	60.0	-15.8
03:35 AM - 03:40 AM	45.6	59.5	-13.9	7.0	-	41.6	50.3	-8.7
03:40 AM - 03:45 AM	46.6	57.9	-11.3	7.0	-	42.6	48.9	-6.3
03:45 AM - 03:50 AM	55.3	59.5	-4.2	7.0	-	51.3	56.0	-4.7
03:50 AM - 03:55 AM	53.8	60.0	-6.2	7.0	-	49.8	57.2	-7.4
03:55 AM - 04:00 AM	45.7	59.4	-13.7	7.0	-	41.7	54.3	-12.6

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Approved by

Wilawan Borirak

Wilawan Borirak
Manager



Analysis / Test Report

TESTING
No.0042

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

Lot ID: 2396881
Date Received : Aug 22, 2023
Date Reported : Oct 20, 2023
Report Number : 2761730-1

P/O :
Project Name : Environmental Quality Monitoring
Project Location : Map Ta Phut_PU (PPTL)

Page 3 of 3

Sample No. 2396881-1
Parameter เสียงรบกวน
Location ชุมชนตากวน-อ่าวประดู่ (GPS 47P 0735531, 1402769)
Measurement Date Aug 16 - 17, 2023
Measurement by Saknarin Jaraskay
Sound Level Meter 00900072

ระดับเสียง (dB(A))

เวลา	เสียงจากแหล่งกำเนิด (A)	เสียงขณะไม่มีการรบกวน (B)	ผลต่างระดับเสียง (A-B) (C)	ตัวปรับค่า (D)	ปรับค่าเสียงจากแหล่งกำเนิด (E)		เสียงพื้นฐาน (F)	ค่าระดับการรบกวน (D-E)
					กลางวัน (A-C)	กลางคืน (A-C)+3		
04:00 AM - 04:05 AM	45.7	58.5	-12.8	7.0	-	41.7	50.2	-8.5
04:05 AM - 04:10 AM	53.3	58.7	-5.4	7.0	-	49.3	53.3	-4.0
04:10 AM - 04:15 AM	45.5	57.8	-12.3	7.0	-	41.5	47.7	-6.2
04:15 AM - 04:20 AM	53.1	53.9	-0.8	7.0	-	49.1	45.0	4.1
04:20 AM - 04:25 AM	51.8	52.7	-0.9	7.0	-	47.8	45.6	2.2
04:25 AM - 04:30 AM	45.7	53.2	-7.5	7.0	-	41.7	43.5	-1.8
04:30 AM - 04:35 AM	48.0	53.3	-5.3	7.0	-	44.0	46.7	-2.7
04:35 AM - 04:40 AM	46.5	54.4	-7.9	7.0	-	42.5	46.9	-4.4
04:40 AM - 04:45 AM	51.5	54.7	-3.2	7.0	-	47.5	45.5	2.0
04:45 AM - 04:50 AM	54.0	53.0	1.0	7.0	-	50.0	45.7	4.3
04:50 AM - 04:55 AM	52.7	48.5	4.2	2.0	-	53.7	43.7	10.0
04:55 AM - 05:00 AM	50.8	53.5	-2.7	7.0	-	46.8	44.0	2.8
05:00 AM - 05:05 AM	46.5	52.2	-5.7	7.0	-	42.5	43.4	-0.9
05:05 AM - 05:10 AM	46.5	54.0	-7.5	7.0	-	42.5	44.1	-1.6
05:10 AM - 05:15 AM	48.8	54.1	-5.3	7.0	-	44.8	43.8	1.0
05:15 AM - 05:20 AM	48.6	48.1	0.5	7.0	-	44.6	41.9	2.7
05:20 AM - 05:25 AM	53.2	48.5	4.7	1.5	-	54.7	42.6	12.1
05:25 AM - 05:30 AM	56.7	50.1	6.6	1.0	-	58.7	42.8	15.9
05:30 AM - 05:35 AM	55.6	53.7	1.9	4.5	-	54.1	42.8	11.3
05:35 AM - 05:40 AM	55.3	48.3	7.0	1.0	-	57.3	42.8	14.5
05:40 AM - 05:45 AM	54.4	51.5	2.9	3.0	-	54.4	44.5	9.9
05:45 AM - 05:50 AM	52.4	48.8	3.6	2.0	-	53.4	43.0	10.4
05:50 AM - 05:55 AM	52.2	49.7	2.5	3.0	-	52.2	44.9	7.3
05:55 AM - 06:00 AM	53.9	51.9	2.0	4.5	-	52.4	44.8	7.6
06:00 AM - 07:00 AM	55.3	53.4	1.9	4.5	50.8	-	46.9	3.9
07:00 AM - 08:00 AM	56.0	54.6	1.4	7.0	49.0	-	48.5	0.5
08:00 AM - 09:00 AM	54.5	52.9	1.6	4.5	50.0	-	44.2	5.8
09:00 AM - 10:00 AM	51.9	52.2	-0.3	7.0	44.9	-	43.9	1.0
10:00 AM - 11:00 AM	55.4	52.4	3.0	3.0	52.4	-	45.4	7.0
11:00 AM - 12:00 PM	55.9	54.3	1.6	4.5	51.4	-	48.3	3.1
12:00 PM - 01:00 PM	54.7	62.1	-7.4	7.0	47.7	-	53.8	-6.1
01:00 PM - 02:00 PM	55.4	56.3	-0.9	7.0	48.4	-	52.1	-3.7

ค่ามาตรฐาน

≤ 10

Reference Method :

- ISO 1996-1
- ประกาศกรมโรงงานอุตสาหกรรม เรื่อง วิธีการตรวจวัดระดับเสียงรบกวน ระดับเสียงเฉลี่ย 24 ชั่วโมง และระดับเสียงสูงสุดที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2553

มาตรฐาน

- ประกาศกระทรวงอุตสาหกรรม เรื่อง กำหนดค่าระดับเสียงการรบกวนและระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548
- ประกาศกระทรวงสาธารณสุข เรื่อง กำหนดค่ามาตรฐานมลพิษทางเสียงอันเกิดจากการประกอบกิจการที่เป็นอันตรายต่อสุขภาพ พ.ศ. 2561
ระดับเสียงจากแหล่งกำเนิด ทำการตรวจวัด วันที่ 16-17 สิงหาคม 2566
ระดับเสียงพื้นฐานและระดับเสียงขณะไม่มีการรบกวน (Sample No.23106837-1 วันที่ตรวจวัด 18-19 ตุลาคม 2566)

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Approved by

Wilawan Borirak

Wilawan Borirak
Manager



Analysis / Test Report

TESTING
No.0042

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

Lot ID: 2396881
Date Received :Aug 22, 2023
Date Reported :Oct 20, 2023
Report Number : 2761731-1

P/O :
Project Name : Environmental Quality Monitoring
Project Location : Map Ta Phut_PU (PPTL)

Page 1 of 3

Sample No. 2396881-2
Parameter เสียงรบกวน
Location หมู่ชนตาควน-อ่าวประดู่ (GPS 47P 0735531, 1402769)
Measurement Date Aug 17 - 18, 2023
Measurement by Saknarin Jaraskay
Sound Level Meter 00900072

ระดับเสียง (dB(A))								
เวลา	(A) เสียงจากแหล่งกำเนิด	(B) เสียงขณะไม่มีการรบกวน	(A-B) ผลต่างระดับเสียง	(C) ค่าปรับค่า	(D) ปรับค่าเสียงจากแหล่งกำเนิด		(E) เสียงพื้นฐาน	(D-E) ค่าระดับการรบกวน
					(A-C) กลางวัน	(A-C)+3 กลางคืน		
02:00 PM - 03:00 PM	54.4	53.8	0.6	7.0	47.4	-	46.4	1.0
03:00 PM - 04:00 PM	54.4	52.5	1.9	4.5	49.9	-	45.8	4.1
04:00 PM - 05:00 PM	55.0	53.7	1.3	7.0	48.0	-	48.3	-0.3
05:00 PM - 06:00 PM	55.5	54.1	1.4	7.0	48.5	-	49.4	-0.9
06:00 PM - 07:00 PM	60.1	56.7	3.4	3.0	57.1	-	52.0	5.1
07:00 PM - 08:00 PM	54.8	56.5	-1.7	7.0	47.8	-	52.4	-4.6
08:00 PM - 09:00 PM	53.3	57.4	-4.1	7.0	46.3	-	52.9	-6.6
09:00 PM - 10:00 PM	52.0	59.9	-7.9	7.0	45.0	-	57.4	-12.4
10:00 PM - 10:05 PM	50.3	59.5	-9.2	7.0	-	46.3	56.6	-10.3
10:05 PM - 10:10 PM	49.6	60.4	-10.8	7.0	-	45.6	59.2	-13.6
10:10 PM - 10:15 PM	49.9	59.3	-9.4	7.0	-	45.9	55.6	-9.7
10:15 PM - 10:20 PM	50.2	59.6	-9.4	7.0	-	46.2	57.1	-10.9
10:20 PM - 10:25 PM	51.3	59.8	-8.5	7.0	-	47.3	57.0	-9.7
10:25 PM - 10:30 PM	50.2	62.9	-12.7	7.0	-	46.2	56.6	-10.4
10:30 PM - 10:35 PM	48.4	59.3	-10.9	7.0	-	44.4	56.7	-12.3
10:35 PM - 10:40 PM	49.8	64.2	-14.4	7.0	-	45.8	57.2	-11.4
10:40 PM - 10:45 PM	51.2	59.3	-8.1	7.0	-	47.2	57.1	-9.9
10:45 PM - 10:50 PM	53.9	59.8	-5.9	7.0	-	49.9	57.7	-7.8
10:50 PM - 10:55 PM	48.2	58.8	-10.6	7.0	-	44.2	56.7	-12.5
10:55 PM - 11:00 PM	51.7	58.9	-7.2	7.0	-	47.7	56.7	-9.0
11:00 PM - 11:05 PM	48.2	58.3	-10.1	7.0	-	44.2	56.4	-12.2
11:05 PM - 11:10 PM	51.2	57.5	-6.3	7.0	-	47.2	52.7	-5.5
11:10 PM - 11:15 PM	49.3	57.6	-8.3	7.0	-	45.3	54.9	-9.6
11:15 PM - 11:20 PM	51.3	56.2	-4.9	7.0	-	47.3	52.8	-5.5
11:20 PM - 11:25 PM	50.7	56.4	-5.7	7.0	-	46.7	54.6	-7.9
11:25 PM - 11:30 PM	55.4	57.2	-1.8	7.0	-	51.4	54.0	-2.6
11:30 PM - 11:35 PM	49.4	57.2	-7.8	7.0	-	45.4	54.2	-8.8
11:35 PM - 11:40 PM	50.8	56.7	-5.9	7.0	-	46.8	53.0	-6.2
11:40 PM - 11:45 PM	54.1	55.7	-1.6	7.0	-	50.1	51.3	-1.2
11:45 PM - 11:50 PM	51.5	56.1	-4.6	7.0	-	47.5	51.6	-4.1
11:50 PM - 11:55 PM	48.5	55.0	-6.5	7.0	-	44.5	52.6	-8.1
11:55 PM - 12:00 AM	48.8	57.7	-8.9	7.0	-	44.8	51.0	-6.2
12:00 AM - 12:05 AM	50.0	55.5	-5.5	7.0	-	46.0	51.9	-5.9
12:05 AM - 12:10 AM	50.0	55.6	-5.6	7.0	-	46.0	53.1	-7.1
12:10 AM - 12:15 AM	51.7	56.3	-4.6	7.0	-	47.7	52.0	-4.3
12:15 AM - 12:20 AM	48.6	54.8	-6.2	7.0	-	44.6	50.6	-6.0
12:20 AM - 12:25 AM	49.5	54.9	-5.4	7.0	-	45.5	49.7	-4.2
12:25 AM - 12:30 AM	49.1	54.0	-4.9	7.0	-	45.1	51.3	-6.2
12:30 AM - 12:35 AM	48.7	56.9	-8.2	7.0	-	44.7	53.8	-9.1
12:35 AM - 12:40 AM	46.7	56.6	-9.9	7.0	-	42.7	54.5	-11.8

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Wilawan Borirak

Wilawan Borirak
Manager



Analysis / Test Report

TESTING
No.0042

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

Lot ID: 2396881
Date Received : Aug 22, 2023
Date Reported : Oct 20, 2023
Report Number : 2761731-1

P/O :
Project Name : Environmental Quality Monitoring
Project Location : Map Ta Phut_PU (PPTL)

Page 2 of 3

Sample No. 2396881-2
Parameter เสียงรบกวน
Location หมู่ชนตากวน-อ่าวประดู่ (GPS 47P 0735531, 1402769)
Measurement Date Aug 17 - 18, 2023
Measurement by Saknarin Jaraskay
Sound Level Meter 00900072

ระดับเสียง (dB(A))								
เวลา	(A) เสียงจากแหล่งกำเนิด	(B) เสียงขณะไม่มีการรบกวน	(A-B) ผลต่างระดับเสียง	(C) ตัวปรับค่า	(D) ปรับค่าเสียงจากแหล่งกำเนิด		(E) เสียงพื้นฐาน	(D-E) ค่าระดับการรบกวน
					(A-C) กลางวัน	(A-C)+3 กลางคืน		
12:40 AM - 12:45 AM	46.9	56.8	-9.9	7.0	-	42.9	51.3	-8.4
12:45 AM - 12:50 AM	48.7	56.0	-7.3	7.0	-	44.7	51.1	-6.4
12:50 AM - 12:55 AM	46.4	55.2	-8.8	7.0	-	42.4	51.2	-8.8
12:55 AM - 01:00 AM	45.8	53.9	-8.1	7.0	-	41.8	50.5	-8.7
01:00 AM - 01:05 AM	48.0	53.6	-5.6	7.0	-	44.0	50.5	-6.5
01:05 AM - 01:10 AM	47.0	53.4	-6.4	7.0	-	43.0	50.9	-7.9
01:10 AM - 01:15 AM	45.6	54.1	-8.5	7.0	-	41.6	50.7	-9.1
01:15 AM - 01:20 AM	45.1	53.8	-8.7	7.0	-	41.1	50.8	-9.7
01:20 AM - 01:25 AM	46.6	55.1	-8.5	7.0	-	42.6	49.6	-7.0
01:25 AM - 01:30 AM	48.8	56.1	-7.3	7.0	-	44.8	53.7	-8.9
01:30 AM - 01:35 AM	43.9	56.6	-12.7	7.0	-	39.9	52.4	-12.5
01:35 AM - 01:40 AM	46.7	56.2	-9.5	7.0	-	42.7	52.1	-9.4
01:40 AM - 01:45 AM	55.7	55.0	0.7	7.0	-	51.7	50.2	1.5
01:45 AM - 01:50 AM	57.5	56.9	0.6	7.0	-	53.5	53.4	0.1
01:50 AM - 01:55 AM	47.2	58.3	-11.1	7.0	-	43.2	55.5	-12.3
01:55 AM - 02:00 AM	46.4	59.7	-13.3	7.0	-	42.4	56.1	-13.7
02:00 AM - 02:05 AM	45.1	60.9	-15.8	7.0	-	41.1	57.8	-16.7
02:05 AM - 02:10 AM	46.0	61.3	-15.3	7.0	-	42.0	59.0	-17.0
02:10 AM - 02:15 AM	45.8	58.7	-12.9	7.0	-	41.8	47.5	-5.7
02:15 AM - 02:20 AM	44.8	54.0	-9.2	7.0	-	40.8	47.4	-6.6
02:20 AM - 02:25 AM	46.1	56.8	-10.7	7.0	-	42.1	51.1	-9.0
02:25 AM - 02:30 AM	47.0	55.7	-8.7	7.0	-	43.0	46.2	-3.2
02:30 AM - 02:35 AM	48.5	60.3	-11.8	7.0	-	44.5	56.9	-12.4
02:35 AM - 02:40 AM	47.3	58.7	-11.4	7.0	-	43.3	48.3	-5.0
02:40 AM - 02:45 AM	45.8	61.0	-15.2	7.0	-	41.8	57.0	-15.2
02:45 AM - 02:50 AM	45.9	61.7	-15.8	7.0	-	41.9	59.2	-17.3
02:50 AM - 02:55 AM	45.2	62.0	-16.8	7.0	-	41.2	60.3	-19.1
02:55 AM - 03:00 AM	44.7	61.3	-16.6	7.0	-	40.7	58.5	-17.8
03:00 AM - 03:05 AM	45.8	61.5	-15.7	7.0	-	41.8	58.6	-16.8
03:05 AM - 03:10 AM	45.3	60.9	-15.6	7.0	-	41.3	56.9	-15.6
03:10 AM - 03:15 AM	44.7	58.8	-14.1	7.0	-	40.7	47.1	-6.4
03:15 AM - 03:20 AM	48.5	57.4	-8.9	7.0	-	44.5	48.9	-4.4
03:20 AM - 03:25 AM	44.8	59.7	-14.9	7.0	-	40.8	55.3	-14.5
03:25 AM - 03:30 AM	50.1	61.2	-11.1	7.0	-	46.1	58.2	-12.1
03:30 AM - 03:35 AM	45.3	61.5	-16.2	7.0	-	41.3	60.0	-18.7
03:35 AM - 03:40 AM	45.4	59.5	-14.1	7.0	-	41.4	50.3	-8.9
03:40 AM - 03:45 AM	45.2	57.9	-12.7	7.0	-	41.2	48.9	-7.7
03:45 AM - 03:50 AM	47.6	59.5	-11.9	7.0	-	43.6	56.0	-12.4
03:50 AM - 03:55 AM	48.9	60.0	-11.1	7.0	-	44.9	57.2	-12.3
03:55 AM - 04:00 AM	48.3	59.4	-11.1	7.0	-	44.3	54.3	-10.0

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by

Wilawan Borirak

Wilawan Borirak
Manager



Analysis / Test Report

TESTING
No.0042

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

Lot ID: 2396881
Date Received : Aug 22, 2023
Date Reported : Oct 20, 2023
Report Number : 2761731-1

P/O :
Project Name : Environmental Quality Monitoring
Project Location : Map Ta Phut_PU (PPTL)

Page 3 of 3

Sample No. 2396881-2
Parameter เสียงรบกวน
Location ชุมชนตากวน-อ่าวประดู่ (GPS 47P 0735531, 1402769)
Measurement Date Aug 17 - 18, 2023
Measurement by Saknarin Jaraskay
Sound Level Meter 00900072

ระดับเสียง (dB(A))

เวลา	เสียงจากแหล่งกำเนิด (A)	เสียงขณะไม่มีการรบกวน (B)	ผลต่างระดับเสียง (A-B)	ตัวปรับค่า (C)	ปรับค่าเสียงจากแหล่งกำเนิด (D)		เสียงพื้นฐาน (E)	ค่าระดับการรบกวน (D-E)
					กลางวัน (A-C)	กลางคืน (A-C)+3		
04:00 AM - 04:05 AM	44.9	58.5	-13.6	7.0	-	40.9	50.2	-9.3
04:05 AM - 04:10 AM	47.8	58.7	-10.9	7.0	-	43.8	53.3	-9.5
04:10 AM - 04:15 AM	54.2	57.8	-3.6	7.0	-	50.2	47.7	2.5
04:15 AM - 04:20 AM	45.4	53.9	-8.5	7.0	-	41.4	45.0	-3.6
04:20 AM - 04:25 AM	44.5	52.7	-8.2	7.0	-	40.5	45.6	-5.1
04:25 AM - 04:30 AM	51.9	53.2	-1.3	7.0	-	47.9	43.5	4.4
04:30 AM - 04:35 AM	47.8	53.3	-5.5	7.0	-	43.8	46.7	-2.9
04:35 AM - 04:40 AM	55.3	54.4	0.9	7.0	-	51.3	46.9	4.4
04:40 AM - 04:45 AM	53.4	54.7	-1.3	7.0	-	49.4	45.5	3.9
04:45 AM - 04:50 AM	48.2	53.0	-4.8	7.0	-	44.2	45.7	-1.5
04:50 AM - 04:55 AM	53.0	48.5	4.5	1.5	-	54.5	43.7	10.8
04:55 AM - 05:00 AM	52.5	53.5	-1.0	7.0	-	48.5	44.0	4.5
05:00 AM - 05:05 AM	49.6	52.2	-2.6	7.0	-	45.6	43.4	2.2
05:05 AM - 05:10 AM	49.1	54.0	-4.9	7.0	-	45.1	44.1	1.0
05:10 AM - 05:15 AM	56.9	54.1	2.8	3.0	-	56.9	43.8	13.1
05:15 AM - 05:20 AM	53.8	48.1	5.7	1.5	-	55.3	41.9	13.4
05:20 AM - 05:25 AM	49.2	48.5	0.7	7.0	-	45.2	42.6	2.6
05:25 AM - 05:30 AM	54.0	50.1	3.9	2.0	-	55.0	42.8	12.2
05:30 AM - 05:35 AM	57.5	53.7	3.8	2.0	-	58.5	42.8	15.7
05:35 AM - 05:40 AM	53.6	48.3	5.3	1.5	-	55.1	42.8	12.3
05:40 AM - 05:45 AM	55.0	51.5	3.5	2.0	-	56.0	44.5	11.5
05:45 AM - 05:50 AM	53.5	48.8	4.7	1.5	-	55.0	43.0	12.0
05:50 AM - 05:55 AM	54.4	49.7	4.7	1.5	-	55.9	44.9	11.0
05:55 AM - 06:00 AM	54.2	51.9	2.3	4.5	-	52.7	44.8	7.9
06:00 AM - 07:00 AM	54.1	53.4	0.7	7.0	47.1	-	46.9	0.2
07:00 AM - 08:00 AM	55.2	54.6	0.6	7.0	48.2	-	48.5	-0.3
08:00 AM - 09:00 AM	52.8	52.9	-0.1	7.0	45.8	-	44.2	1.6
09:00 AM - 10:00 AM	52.7	52.2	0.5	7.0	45.7	-	43.9	1.8
10:00 AM - 11:00 AM	50.8	52.4	-1.6	7.0	43.8	-	45.4	-1.6
11:00 AM - 12:00 PM	52.7	54.3	-1.6	7.0	45.7	-	48.3	-2.6
12:00 PM - 01:00 PM	53.5	62.1	-8.6	7.0	46.5	-	53.8	-7.3
01:00 PM - 02:00 PM	53.0	56.3	-3.3	7.0	46.0	-	52.1	-6.1
ค่ามาตรฐาน								≤ 10

Reference Method :

- ISO 1996-1
- ประกาศกรมโรงงานอุตสาหกรรม เรื่อง วิธีการตรวจวัดระดับเสียงรบกวน ระดับเสียงเฉลี่ย 24 ชั่วโมง และระดับเสียงสูงสุดที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2553

มาตรฐาน

- ประกาศกระทรวงอุตสาหกรรม เรื่อง กำหนดค่าระดับเสียงการรบกวนและระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548
- ประกาศกระทรวงสาธารณสุข เรื่อง กำหนดค่ามาตรฐานมลพิษทางเสียงอันเกิดจากการประกอบกิจการที่เป็นอันตรายต่อสุขภาพ พ.ศ. 2561
ระดับเสียงจากแหล่งกำเนิด ทำการตรวจวัด วันที่ 17-18 สิงหาคม 2566
ระดับเสียงพื้นฐานและระดับเสียงขณะไม่มีการรบกวน (Sample No.23106837-1 วันที่ตรวจวัด 18-19 ตุลาคม 2566)

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by

Wilawan Borirak

Wilawan Borirak
Manager



Analysis / Test Report

TESTING
No.0042

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

Lot ID: 2396881
Date Received : Aug 22, 2023
Date Reported : Oct 20, 2023
Report Number : 2761732-1

P/O :
Project Name : Environmental Quality Monitoring
Project Location : Map Ta Phut_PU (PPTL)

Page 1 of 3

Sample No. 2396881-3
Parameter เสียงรบกวน
Location หมู่ชนดาวกวน-อ่าวประดู่ (GPS 47P 0735531, 1402769)
Measurement Date Aug 18 - 19, 2023
Measurement by Saknarin Jaraskay
Sound Level Meter 00900072

ระดับเสียง (dB(A))								
เวลา	(A) เสียงจากแหล่งกำเนิด	(B) เสียงขณะไม่มีการรบกวน	(A-B) ผลต่างระดับเสียง	(C) ค่าปรับค่า	(D) ปรับค่าเสียงจากแหล่งกำเนิด		(E) เสียงพื้นฐาน	(D-E) ค่าระดับการรบกวน
					(A-C) กลางวัน	(A-C)+3 กลางคืน		
02:00 PM - 03:00 PM	52.4	53.8	-1.4	7.0	45.4	-	46.4	-1.0
03:00 PM - 04:00 PM	53.1	52.5	0.6	7.0	46.1	-	45.8	0.3
04:00 PM - 05:00 PM	55.2	53.7	1.5	4.5	50.7	-	48.3	2.4
05:00 PM - 06:00 PM	55.5	54.1	1.4	7.0	48.5	-	49.4	-0.9
06:00 PM - 07:00 PM	60.7	56.7	4.0	2.0	58.7	-	52.0	6.7
07:00 PM - 08:00 PM	54.4	56.5	-2.1	7.0	47.4	-	52.4	-5.0
08:00 PM - 09:00 PM	53.2	57.4	-4.2	7.0	46.2	-	52.9	-6.7
09:00 PM - 10:00 PM	54.1	59.9	-5.8	7.0	47.1	-	57.4	-10.3
10:00 PM - 10:05 PM	51.7	59.5	-7.8	7.0	-	47.7	56.6	-8.9
10:05 PM - 10:10 PM	49.8	60.4	-10.6	7.0	-	45.8	59.2	-13.4
10:10 PM - 10:15 PM	51.6	59.3	-7.7	7.0	-	47.6	55.6	-8.0
10:15 PM - 10:20 PM	48.4	59.6	-11.2	7.0	-	44.4	57.1	-12.7
10:20 PM - 10:25 PM	56.6	59.8	-3.2	7.0	-	52.6	57.0	-4.4
10:25 PM - 10:30 PM	50.3	62.9	-12.6	7.0	-	46.3	56.6	-10.3
10:30 PM - 10:35 PM	51.8	59.3	-7.5	7.0	-	47.8	56.7	-8.9
10:35 PM - 10:40 PM	53.0	64.2	-11.2	7.0	-	49.0	57.2	-8.2
10:40 PM - 10:45 PM	49.0	59.3	-10.3	7.0	-	45.0	57.1	-12.1
10:45 PM - 10:50 PM	51.2	59.8	-8.6	7.0	-	47.2	57.7	-10.5
10:50 PM - 10:55 PM	48.6	58.8	-10.2	7.0	-	44.6	56.7	-12.1
10:55 PM - 11:00 PM	50.5	58.9	-8.4	7.0	-	46.5	56.7	-10.2
11:00 PM - 11:05 PM	49.4	58.3	-8.9	7.0	-	45.4	56.4	-11.0
11:05 PM - 11:10 PM	48.0	57.5	-9.5	7.0	-	44.0	52.7	-8.7
11:10 PM - 11:15 PM	48.8	57.6	-8.8	7.0	-	44.8	54.9	-10.1
11:15 PM - 11:20 PM	48.3	56.2	-7.9	7.0	-	44.3	52.8	-8.5
11:20 PM - 11:25 PM	60.2	56.4	3.8	2.0	-	61.2	54.6	6.6
11:25 PM - 11:30 PM	51.7	57.2	-5.5	7.0	-	47.7	54.0	-6.3
11:30 PM - 11:35 PM	49.4	57.2	-7.8	7.0	-	45.4	54.2	-8.8
11:35 PM - 11:40 PM	50.1	56.7	-6.6	7.0	-	46.1	53.0	-6.9
11:40 PM - 11:45 PM	48.4	55.7	-7.3	7.0	-	44.4	51.3	-6.9
11:45 PM - 11:50 PM	49.7	56.1	-6.4	7.0	-	45.7	51.6	-5.9
11:50 PM - 11:55 PM	51.8	55.0	-3.2	7.0	-	47.8	52.6	-4.8
11:55 PM - 12:00 AM	48.2	57.7	-9.5	7.0	-	44.2	51.0	-6.8
12:00 AM - 12:05 AM	51.9	55.5	-3.6	7.0	-	47.9	51.9	-4.0
12:05 AM - 12:10 AM	50.4	55.6	-5.2	7.0	-	46.4	53.1	-6.7
12:10 AM - 12:15 AM	52.0	56.3	-4.3	7.0	-	48.0	52.0	-4.0
12:15 AM - 12:20 AM	49.3	54.8	-5.5	7.0	-	45.3	50.6	-5.3
12:20 AM - 12:25 AM	50.9	54.9	-4.0	7.0	-	46.9	49.7	-2.8
12:25 AM - 12:30 AM	48.2	54.0	-5.8	7.0	-	44.2	51.3	-7.1
12:30 AM - 12:35 AM	47.4	56.9	-9.5	7.0	-	43.4	53.8	-10.4
12:35 AM - 12:40 AM	46.5	56.6	-10.1	7.0	-	42.5	54.5	-12.0

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Approved by

Wilawan Borirak

Wilawan Borirak
Manager



Analysis / Test Report

TESTING
No.0042

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

Lot ID: 2396881
Date Received : Aug 22, 2023
Date Reported : Oct 20, 2023
Report Number : 2761732-1

P/O :
Project Name : Environmental Quality Monitoring
Project Location : Map Ta Phut_PU (PPTL)

Page 2 of 3

Sample No. 2396881-3
Parameter เสียงรบกวน
Location หมู่ชนตากวน-อ่าวประดู่ (GPS 47P 0735531, 1402769)
Measurement Date Aug 18 - 19, 2023
Measurement by Saknarin Jaraskay
Sound Level Meter 00900072

ระดับเสียง (dB(A))								
เวลา	(A) เสียงจากแหล่งกำเนิด	(B) เสียงขณะไม่มีการรบกวน	(A-B) ผลต่างระดับเสียง	(C) ตัวปรับค่า	(D) ปรับค่าเสียงจากแหล่งกำเนิด		(E) เสียงพื้นฐาน	(D-E) ค่าระดับการรบกวน
					(A-C) กลางวัน	(A-C)+3 กลางคืน		
12:40 AM - 12:45 AM	54.3	56.8	-2.5	7.0	-	50.3	51.3	-1.0
12:45 AM - 12:50 AM	48.2	56.0	-7.8	7.0	-	44.2	51.1	-6.9
12:50 AM - 12:55 AM	47.4	55.2	-7.8	7.0	-	43.4	51.2	-7.8
12:55 AM - 01:00 AM	55.8	53.9	1.9	4.5	-	54.3	50.5	3.8
01:00 AM - 01:05 AM	48.9	53.6	-4.7	7.0	-	44.9	50.5	-5.6
01:05 AM - 01:10 AM	49.4	53.4	-4.0	7.0	-	45.4	50.9	-5.5
01:10 AM - 01:15 AM	51.7	54.1	-2.4	7.0	-	47.7	50.7	-3.0
01:15 AM - 01:20 AM	47.3	53.8	-6.5	7.0	-	43.3	50.8	-7.5
01:20 AM - 01:25 AM	47.4	55.1	-7.7	7.0	-	43.4	49.6	-6.2
01:25 AM - 01:30 AM	48.0	56.1	-8.1	7.0	-	44.0	53.7	-9.7
01:30 AM - 01:35 AM	47.4	56.6	-9.2	7.0	-	43.4	52.4	-9.0
01:35 AM - 01:40 AM	47.2	56.2	-9.0	7.0	-	43.2	52.1	-8.9
01:40 AM - 01:45 AM	46.3	55.0	-8.7	7.0	-	42.3	50.2	-7.9
01:45 AM - 01:50 AM	48.1	56.9	-8.8	7.0	-	44.1	53.4	-9.3
01:50 AM - 01:55 AM	44.6	58.3	-13.7	7.0	-	40.6	55.5	-14.9
01:55 AM - 02:00 AM	46.8	59.7	-12.9	7.0	-	42.8	56.1	-13.3
02:00 AM - 02:05 AM	49.8	60.9	-11.1	7.0	-	45.8	57.8	-12.0
02:05 AM - 02:10 AM	48.6	61.3	-12.7	7.0	-	44.6	59.0	-14.4
02:10 AM - 02:15 AM	45.8	58.7	-12.9	7.0	-	41.8	47.5	-5.7
02:15 AM - 02:20 AM	46.4	54.0	-7.6	7.0	-	42.4	47.4	-5.0
02:20 AM - 02:25 AM	51.5	56.8	-5.3	7.0	-	47.5	51.1	-3.6
02:25 AM - 02:30 AM	54.7	55.7	-1.0	7.0	-	50.7	46.2	4.5
02:30 AM - 02:35 AM	53.7	60.3	-6.6	7.0	-	49.7	56.9	-7.2
02:35 AM - 02:40 AM	44.0	58.7	-14.7	7.0	-	40.0	48.3	-8.3
02:40 AM - 02:45 AM	45.1	61.0	-15.9	7.0	-	41.1	57.0	-15.9
02:45 AM - 02:50 AM	45.0	61.7	-16.7	7.0	-	41.0	59.2	-18.2
02:50 AM - 02:55 AM	43.8	62.0	-18.2	7.0	-	39.8	60.3	-20.5
02:55 AM - 03:00 AM	55.1	61.3	-6.2	7.0	-	51.1	58.5	-7.4
03:00 AM - 03:05 AM	49.2	61.5	-12.3	7.0	-	45.2	58.6	-13.4
03:05 AM - 03:10 AM	59.2	60.9	-1.7	7.0	-	55.2	56.9	-1.7
03:10 AM - 03:15 AM	49.6	58.8	-9.2	7.0	-	45.6	47.1	-1.5
03:15 AM - 03:20 AM	45.2	57.4	-12.2	7.0	-	41.2	48.9	-7.7
03:20 AM - 03:25 AM	45.6	59.7	-14.1	7.0	-	41.6	55.3	-13.7
03:25 AM - 03:30 AM	45.2	61.2	-16.0	7.0	-	41.2	58.2	-17.0
03:30 AM - 03:35 AM	43.1	61.5	-18.4	7.0	-	39.1	60.0	-20.9
03:35 AM - 03:40 AM	44.5	59.5	-15.0	7.0	-	40.5	50.3	-9.8
03:40 AM - 03:45 AM	46.7	57.9	-11.2	7.0	-	42.7	48.9	-6.2
03:45 AM - 03:50 AM	54.7	59.5	-4.8	7.0	-	50.7	56.0	-5.3
03:50 AM - 03:55 AM	49.7	60.0	-10.3	7.0	-	45.7	57.2	-11.5
03:55 AM - 04:00 AM	45.0	59.4	-14.4	7.0	-	41.0	54.3	-13.3

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Approved by

Wilawan Borirak

Wilawan Borirak
Manager



Analysis / Test Report

TESTING
No.0042

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

Lot ID: 2396881
Date Received : Aug 22, 2023
Date Reported : Oct 20, 2023
Report Number : 2761732-1

P/O :
Project Name : Environmental Quality Monitoring
Project Location : Map Ta Phut_PU (PPTL)

Page 3 of 3

Sample No. 2396881-3
Parameter เสียงรบกวน
Location ชุมชนตากวน-อ่าวประดู่ (GPS 47P 0735531, 1402769)
Measurement Date Aug 18 - 19, 2023
Measurement by Saknarin Jaraskay
Sound Level Meter 00900072

ระดับเสียง (dB(A))

เวลา	(A) เสียงจากแหล่งกำเนิด	(B) เสียงขณะไม่มีการรบกวน	(A-B) ผลต่างระดับเสียง	(C) ตัวปรับค่า	(D) ปรับค่าเสียงจากแหล่งกำเนิด		(E) เสียงพื้นฐาน	(D-E) ค่าระดับการรบกวน
					(A-C) กลางวัน	(A-C)+3 กลางคืน		
04:00 AM - 04:05 AM	44.9	58.5	-13.6	7.0	-	40.9	50.2	-9.3
04:05 AM - 04:10 AM	43.7	58.7	-15.0	7.0	-	39.7	53.3	-13.6
04:10 AM - 04:15 AM	53.8	57.8	-4.0	7.0	-	49.8	47.7	2.1
04:15 AM - 04:20 AM	47.6	53.9	-6.3	7.0	-	43.6	45.0	-1.4
04:20 AM - 04:25 AM	45.3	52.7	-7.4	7.0	-	41.3	45.6	-4.3
04:25 AM - 04:30 AM	46.6	53.2	-6.6	7.0	-	42.6	43.5	-0.9
04:30 AM - 04:35 AM	47.1	53.3	-6.2	7.0	-	43.1	46.7	-3.6
04:35 AM - 04:40 AM	53.5	54.4	-0.9	7.0	-	49.5	46.9	2.6
04:40 AM - 04:45 AM	52.4	54.7	-2.3	7.0	-	48.4	45.5	2.9
04:45 AM - 04:50 AM	50.0	53.0	-3.0	7.0	-	46.0	45.7	0.3
04:50 AM - 04:55 AM	54.8	48.5	6.3	1.5	-	56.3	43.7	12.6
04:55 AM - 05:00 AM	51.2	53.5	-2.3	7.0	-	47.2	44.0	3.2
05:00 AM - 05:05 AM	56.1	52.2	3.9	2.0	-	57.1	43.4	13.7
05:05 AM - 05:10 AM	55.2	54.0	1.2	7.0	-	51.2	44.1	7.1
05:10 AM - 05:15 AM	56.3	54.1	2.2	4.5	-	54.8	43.8	11.0
05:15 AM - 05:20 AM	56.3	48.1	8.2	0.5	-	58.8	41.9	16.9
05:20 AM - 05:25 AM	47.3	48.5	-1.2	7.0	-	43.3	42.6	0.7
05:25 AM - 05:30 AM	51.7	50.1	1.6	4.5	-	50.2	42.8	7.4
05:30 AM - 05:35 AM	55.2	53.7	1.5	4.5	-	53.7	42.8	10.9
05:35 AM - 05:40 AM	55.3	48.3	7.0	1.0	-	57.3	42.8	14.5
05:40 AM - 05:45 AM	53.3	51.5	1.8	4.5	-	51.8	44.5	7.3
05:45 AM - 05:50 AM	51.6	48.8	2.8	3.0	-	51.6	43.0	8.6
05:50 AM - 05:55 AM	54.7	49.7	5.0	1.5	-	56.2	44.9	11.3
05:55 AM - 06:00 AM	52.0	51.9	0.1	7.0	-	48.0	44.8	3.2
06:00 AM - 07:00 AM	54.5	53.4	1.1	7.0	47.5	-	46.9	0.6
07:00 AM - 08:00 AM	54.8	54.6	0.2	7.0	47.8	-	48.5	-0.7
08:00 AM - 09:00 AM	51.7	52.9	-1.2	7.0	44.7	-	44.2	0.5
09:00 AM - 10:00 AM	51.9	52.2	-0.3	7.0	44.9	-	43.9	1.0
10:00 AM - 11:00 AM	50.8	52.4	-1.6	7.0	43.8	-	45.4	-1.6
11:00 AM - 12:00 PM	53.4	54.3	-0.9	7.0	46.4	-	48.3	-1.9
12:00 PM - 01:00 PM	52.7	62.1	-9.4	7.0	45.7	-	53.8	-8.1
01:00 PM - 02:00 PM	51.2	56.3	-5.1	7.0	44.2	-	52.1	-7.9

ค่ามาตรฐาน

≤ 10

Reference Method :

- ISO 1996-1
- ประกาศกรมโรงงานอุตสาหกรรม เรื่อง วิธีการตรวจวัดระดับเสียงรบกวน ระดับเสียงเฉลี่ย 24 ชั่วโมง และระดับเสียงสูงสุดที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2553

มาตรฐาน

- ประกาศกระทรวงอุตสาหกรรม เรื่อง กำหนดค่าระดับเสียงการรบกวนและระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548
- ประกาศกระทรวงสาธารณสุข เรื่อง กำหนดค่ามาตรฐานมลพิษทางเสียงอันเกิดจากการประกอบกิจการที่เป็นอันตรายต่อสุขภาพ พ.ศ. 2561
ระดับเสียงจากแหล่งกำเนิด ทำการตรวจวัด วันที่ 18-19 สิงหาคม 2566
ระดับเสียงพื้นฐานและระดับเสียงขณะไม่มีการรบกวน (Sample No.23106837-1 วันที่ตรวจวัด 18-19 ตุลาคม 2566)

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Approved by

Wilawan Borirak
Manager



Analysis / Test Report

TESTING
No.0042

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

Lot ID: 23106837
Date Received :Oct 19, 2023
Date Reported :Oct 20, 2023
Report No. : 2773535-1

P/O :
Project Name : Environmental Quality Monitoring
Project Location : Map Ta Phut_PU (PPTL)

Page 1 of 3

Sample No. 23106837-1
Parameter Noise
Location ชุมชนตากวน-อ่าวประดู่ (GPS 47P 0735531, 1402769) (Shut down)
Measurement Date Oct 18 - 19, 2023
Measurement by Nontachai Uppathamp
Sound Level Meter 00710639

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
09:00 AM - 10:00 AM	52.2	72.5	43.9
10:00 AM - 11:00 AM	52.4	71.1	45.4
11:00 AM - 12:00 PM	54.3	77.7	48.3
12:00 PM - 01:00 PM	62.1	77.4	53.8
01:00 PM - 02:00 PM	56.3	79.5	52.1
02:00 PM - 03:00 PM	53.8	78.3	46.4
03:00 PM - 04:00 PM	52.5	76.2	45.8
04:00 PM - 05:00 PM	53.7	75.3	48.3
05:00 PM - 06:00 PM	54.1	71.2	49.4
06:00 PM - 07:00 PM	56.7	77.8	52.0
07:00 PM - 08:00 PM	56.5	82.0	52.4
08:00 PM - 09:00 PM	57.4	79.7	52.9
09:00 PM - 10:00 PM	59.9	79.7	57.4
10:00 PM - 10:05 PM	59.5	62.9	56.6
10:05 PM - 10:10 PM	60.4	65.8	59.2
10:10 PM - 10:15 PM	59.3	66.0	55.6
10:15 PM - 10:20 PM	59.6	62.6	57.1
10:20 PM - 10:25 PM	59.8	68.5	57.0
10:25 PM - 10:30 PM	62.9	76.1	56.6
10:30 PM - 10:35 PM	59.3	73.8	56.7
10:35 PM - 10:40 PM	64.2	87.5	57.2
10:40 PM - 10:45 PM	59.3	65.1	57.1
10:45 PM - 10:50 PM	59.8	73.3	57.7
10:50 PM - 10:55 PM	58.8	63.2	56.7
10:55 PM - 11:00 PM	58.9	62.6	56.7
11:00 PM - 11:05 PM	58.3	61.4	56.4
11:05 PM - 11:10 PM	57.5	72.2	52.7
11:10 PM - 11:15 PM	57.6	62.6	54.9
11:15 PM - 11:20 PM	56.2	63.5	52.8
11:20 PM - 11:25 PM	56.4	61.0	54.6
11:25 PM - 11:30 PM	57.2	63.0	54.0
11:30 PM - 11:35 PM	57.2	68.9	54.2
11:35 PM - 11:40 PM	56.7	66.6	53.0
11:40 PM - 11:45 PM	55.7	61.1	51.3
11:45 PM - 11:50 PM	56.1	66.0	51.6
11:50 PM - 11:55 PM	55.0	59.4	52.6
11:55 PM - 12:00 AM	57.7	77.2	51.0
12:00 AM - 12:05 AM	55.5	65.5	51.9
12:05 AM - 12:10 AM	55.6	62.3	53.1
12:10 AM - 12:15 AM	56.3	73.9	52.0

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Approved by

Wilawan Borirak

Wilawan Borirak
Manager



Analysis / Test Report

TESTING
No.0042

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

Lot ID: 23106837
Date Received :Oct 19, 2023
Date Reported :Oct 20, 2023
Report No. : 2773535-1

P/O :
Project Name : Environmental Quality Monitoring
Project Location : Map Ta Phut_PU (PPTL)

Page 2 of 3

Sample No. 23106837-1
Parameter Noise
Location ชุมชนตากวน-อ่าวประดู่ (GPS 47P 0735531, 1402769) (Shut down)
Measurement Date Oct 18 - 19, 2023
Measurement by Nontachai Uppathamp
Sound Level Meter 00710639

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
12:15 AM - 12:20 AM	54.8	68.5	50.6
12:20 AM - 12:25 AM	54.9	67.2	49.7
12:25 AM - 12:30 AM	54.0	61.2	51.3
12:30 AM - 12:35 AM	56.9	61.9	53.8
12:35 AM - 12:40 AM	56.6	70.6	54.5
12:40 AM - 12:45 AM	56.8	75.3	51.3
12:45 AM - 12:50 AM	56.0	76.3	51.1
12:50 AM - 12:55 AM	55.2	65.1	51.2
12:55 AM - 01:00 AM	53.9	62.5	50.5
01:00 AM - 01:05 AM	53.6	58.7	50.5
01:05 AM - 01:10 AM	53.4	63.0	50.9
01:10 AM - 01:15 AM	54.1	72.0	50.7
01:15 AM - 01:20 AM	53.8	60.0	50.8
01:20 AM - 01:25 AM	55.1	69.1	49.6
01:25 AM - 01:30 AM	56.1	70.5	53.7
01:30 AM - 01:35 AM	56.6	61.5	52.4
01:35 AM - 01:40 AM	56.2	64.8	52.1
01:40 AM - 01:45 AM	55.0	61.7	50.2
01:45 AM - 01:50 AM	56.9	69.5	53.4
01:50 AM - 01:55 AM	58.3	63.1	55.5
01:55 AM - 02:00 AM	59.7	64.2	56.1
02:00 AM - 02:05 AM	60.9	64.3	57.8
02:05 AM - 02:10 AM	61.3	67.9	59.0
02:10 AM - 02:15 AM	58.7	65.0	47.5
02:15 AM - 02:20 AM	54.0	63.2	47.4
02:20 AM - 02:25 AM	56.8	62.7	51.1
02:25 AM - 02:30 AM	55.7	67.5	46.2
02:30 AM - 02:35 AM	60.3	64.0	56.9
02:35 AM - 02:40 AM	58.7	64.4	48.3
02:40 AM - 02:45 AM	61.0	64.9	57.0
02:45 AM - 02:50 AM	61.7	65.0	59.2
02:50 AM - 02:55 AM	62.0	68.7	60.3
02:55 AM - 03:00 AM	61.3	69.0	58.5
03:00 AM - 03:05 AM	61.5	64.7	58.6
03:05 AM - 03:10 AM	60.9	64.5	56.9
03:10 AM - 03:15 AM	58.8	64.7	47.1
03:15 AM - 03:20 AM	57.4	63.7	48.9
03:20 AM - 03:25 AM	59.7	64.3	55.3
03:25 AM - 03:30 AM	61.2	73.3	58.2
03:30 AM - 03:35 AM	61.5	64.2	60.0

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Approved by

Wilawan Borirak
Manager



Analysis / Test Report

TESTING
No.0042

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

Lot ID: 23106837
Date Received :Oct 19, 2023
Date Reported :Oct 20, 2023
Report No. : 2773535-1

P/O :
Project Name : Environmental Quality Monitoring
Project Location : Map Ta Phut_PU (PPTL)

Page 3 of 3

Sample No. 23106837-1
Parameter Noise
Location ชุมชนตากวน-อ่าวประดู่ (GPS 47P 0735531, 1402769) (Shut down)
Measurement Date Oct 18 - 19, 2023
Measurement by Nontachai Uppathamp
Sound Level Meter 00710639

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
03:35 AM - 03:40 AM	59.5	65.1	50.3
03:40 AM - 03:45 AM	57.9	64.2	48.9
03:45 AM - 03:50 AM	59.5	64.5	56.0
03:50 AM - 03:55 AM	60.0	63.6	57.2
03:55 AM - 04:00 AM	59.4	63.8	54.3
04:00 AM - 04:05 AM	58.5	63.6	50.2
04:05 AM - 04:10 AM	58.7	63.8	53.3
04:10 AM - 04:15 AM	57.8	65.5	47.7
04:15 AM - 04:20 AM	53.9	65.8	45.0
04:20 AM - 04:25 AM	52.7	61.3	45.6
04:25 AM - 04:30 AM	53.2	62.3	43.5
04:30 AM - 04:35 AM	53.3	61.2	46.7
04:35 AM - 04:40 AM	54.4	78.6	46.9
04:40 AM - 04:45 AM	54.7	69.0	45.5
04:45 AM - 04:50 AM	53.0	66.4	45.7
04:50 AM - 04:55 AM	48.5	59.1	43.7
04:55 AM - 05:00 AM	53.5	71.2	44.0
05:00 AM - 05:05 AM	52.2	71.9	43.4
05:05 AM - 05:10 AM	54.0	72.7	44.1
05:10 AM - 05:15 AM	54.1	70.4	43.8
05:15 AM - 05:20 AM	48.1	59.5	41.9
05:20 AM - 05:25 AM	48.5	60.9	42.6
05:25 AM - 05:30 AM	50.1	67.2	42.8
05:30 AM - 05:35 AM	53.7	67.5	42.8
05:35 AM - 05:40 AM	48.3	66.8	42.8
05:40 AM - 05:45 AM	51.5	68.3	44.5
05:45 AM - 05:50 AM	48.8	61.2	43.0
05:50 AM - 05:55 AM	49.7	60.7	44.9
05:55 AM - 06:00 AM	51.9	64.8	44.8
06:00 AM - 07:00 AM	53.4	70.0	46.9
07:00 AM - 08:00 AM	54.6	74.0	48.5
08:00 AM - 09:00 AM	52.9	74.6	44.2

Reference Method :

- ISO 1996-1
- ประกาศกรมโรงงานอุตสาหกรรม เรื่อง วิธีการตรวจวัดระดับเสียงรบกวน ระดับเสียงเฉลี่ย 24 ชั่วโมง และระดับเสียงสูงสุดที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2553

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