

## ภาคผนวก ค

ใบรับรองผลการตรวจวัดคุณภาพสิ่งแวดล้อม

# ภาคผนวก ค-1

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ผลการตรวจวิเคราะห์คุณภาพน้ำทิ้ง



## Analysis / Test Report

TESTING

No.0042

**Lot ID: 21143868**

Date Received : Jan 19, 2022

Date Reported : Jan 27, 2022

Report Number : 2170016-1

**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 :** Water Testing

**Project Location:** Map Ta Phut\_PU (PPTL)

Page 1 of 1

<b>Sample Number</b>	21143868-1
<b>Sampled Date</b>	Jan 19, 2022 9:20 AM
<b>Sample Description</b>	Wastewater
<b>Location</b>	H-304
<b>Date Analysis Commenced</b>	Jan 19, 2022
<b>Condition of Sample</b>	Contained in two amber glass bottles, three plastic bottles and two glass vials, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
BOD (5 days at 20 Degree C)	mg/L	-	2	<2	≤20	APHA (2017), 5210 B	Rayong
COD	mg/L	1.5	5	23	≤120	APHA (2017), 5220 D	Rayong
Color (at Original pH)	ADMI	-	5	10	≤300	APHA (2017), 2120 F	Rayong
Color (at pH 7.0)	ADMI	-	5	11	≤300	APHA (2017), 2120 F	Rayong
Oil & Grease	mg/L	-	3	<3	≤5	Based on APHA (2017), 5520 B	Rayong
pH at 25 degree C		-	-	8.3	5.5-9.0	Based on APHA (2017), 4500-H (B)	Rayong
Temperature *	Degree C	-	-	27.0	≤40	Based on APHA (2017), 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	536	≤3000	APHA (2017), 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	8	≤50	APHA (2017), 2540 D	Rayong

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

**Sampled By :** Wanlop Hunchainaow

Remark :

- 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. Banongkit*

Narumon Banchongkit

Supervisor

ทะเบียนเลขที่ จ-323-จ-9445

Approved by

*D. Changchon*

Dej Changchon

Senior Manager

ทะเบียนเลขที่ จ-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 :**

**Project Name :** Water Testing

**Project Location :** Map Ta Phut\_PU (PPTL)

**Lot ID: 21143868**

Date Received : Jan 19, 2022

Date Reported : Jan 27, 2022

Report Number : 2170016-2

Page 1 of 1

<b>Sample Number</b>	21143868-1
<b>Sampled Date</b>	Jan 19, 2022 9:20 AM
<b>Sample Description</b>	Wastewater
<b>Location</b>	H-304
<b>Date Analysis Commenced</b>	Jan 21, 2022
<b>Condition of Sample</b>	Contained in two amber glass bottles, three plastic bottles and two glass vials, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Method	Testing Location
<b>Water Testing</b>						
Total Organic Carbon	mg/L	0.01	0.1	6.36	Based on APHA (2017), 5310 B	Bangkok

**Sampled By :** Wanlop Hunchainaow

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Approved by

Siriluk P.

Siriluk Puenggang  
Supervisor

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

**Project Location:** Map Ta Phut\_PU (PPTL)

**Lot ID: 221519**

Date Received : Feb 02, 2022

Date Reported : Feb 09, 2022

Report Number : 2195095-1

Page 1 of 1

<b>Sample Number</b>	221519-1
<b>Sampled Date</b>	Feb 02, 2022 9:22 AM
<b>Sample Description</b>	Wastewater
<b>Location</b>	H-304
<b>Date Analysis Commenced</b>	Feb 02, 2022
<b>Condition of Sample</b>	Contained in two amber glass bottles, three plastic bottles and two glass vials, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
BOD (5 days at 20 Degree C)	mg/L	-	2	<2	≤20	APHA (2017), 5210 B	Rayong
COD	mg/L	1.5	5	26	≤120	APHA (2017), 5220 D	Rayong
Color (at Original pH)	ADMI	-	5	9	≤300	APHA (2017), 2120 F	Rayong
Color (at pH 7.0)	ADMI	-	5	8	≤300	APHA (2017), 2120 F	Rayong
Oil & Grease	mg/L	-	3	<3	≤5	Based on APHA (2017), 5520 B	Rayong
pH at 25 degree C		-	-	8.0	5.5-9.0	Based on APHA (2017), 4500-H (B)	Rayong
Temperature *	Degree C	-	-	29.0	≤40	Based on APHA (2017), 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	544	≤3000	APHA (2017), 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	5	≤50	APHA (2017), 2540 D	Rayong

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

**Sampled By :** Pathompong Kornasawat , Thanasoun Namakunna

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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 :**

**Project Name :** Water Testing

**Project Location:** Map Ta Phut\_PU (PPTL)

**Lot ID: 221519**

Date Received : Feb 02, 2022

Date Reported : Feb 10, 2022

Report Number : 2195095-2

Page 1 of 1

<b>Sample Number</b>	221519-1
<b>Sampled Date</b>	Feb 02, 2022 9:22 AM
<b>Sample Description</b>	Wastewater
<b>Location</b>	H-304
<b>Date Analysis Commenced</b>	Feb 04, 2022
<b>Condition of Sample</b>	Contained in two amber glass bottles, three plastic bottles and two glass vials, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
Total Organic Carbon	mg/L	0.01	0.1	6.60	No Standard	Based on APHA (2017), 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).

**Sampled By :** Pathompong Kornawat , Thanasoun Namakunna

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Approved by

Narin Saiseng  
Supervisor



## 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 :** Water Testing

**Project Location:** Map Ta Phut\_PU (PPTL)

**Lot ID: 2217995**

Date Received : Mar 02, 2022

Date Reported : Mar 10, 2022

Report Number : 2227961-1

Page 1 of 1

<b>Sample Number</b>	2217995-1
<b>Sampled Date</b>	Mar 02, 2022 9:20 AM
<b>Sample Description</b>	Wastewater
<b>Location</b>	H-304
<b>Date Analysis Commenced</b>	Mar 02, 2022
<b>Condition of Sample</b>	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
<b>Water Testing</b>							
BOD (5 days at 20 Degree C)	mg/L	-	2	<2	≤20	APHA (2017), 5210 B	Rayong
COD	mg/L	1.5	5	33	≤120	APHA (2017), 5220 D	Rayong
Color (at Original pH)	ADMI	-	5	11	≤300	APHA (2017), 2120 F	Rayong
Color (at pH 7.0)	ADMI	-	5	10	≤300	APHA (2017), 2120 F	Rayong
Oil & Grease	mg/L	-	3	<3	≤5	Based on APHA (2017), 5520 B	Rayong
pH at 25 degree C		-	-	8.0	5.5-9.0	Based on APHA (2017), 4500-H (B)	Rayong
Temperature *	Degree C	-	-	30.3	≤40	Based on APHA (2017), 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	752	≤3000	APHA (2017), 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	6	≤50	APHA (2017), 2540 D	Rayong

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

**Sampled By :** Pathompong Kornasawat , Thanasoun Namakunna

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Technical Management

*N. Banongkit*

Narumon Banchongkit

Supervisor

ทะเบียนเลขที่ จ-323-จ-9445

Approved by

*D. Changchon*

Dej Changchon

Senior Manager

ทะเบียนเลขที่ จ-323-ค-9442

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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 :**

**Project Name :** Water Testing

**Project Location:** Map Ta Phut\_PU (PPTL)

**Lot ID: 2217995**

Date Received : Mar 02, 2022

Date Reported : Mar 09, 2022

Report Number : 2227961-2

Page 1 of 1

<b>Sample Number</b>	2217995-1
<b>Sampled Date</b>	Mar 02, 2022 9:20 AM
<b>Sample Description</b>	Wastewater
<b>Location</b>	H-304
<b>Date Analysis Commenced</b>	Mar 07, 2022
<b>Condition of Sample</b>	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
<b>Water Testing</b>							
Total Organic Carbon	mg/L	0.01	0.1	9.51	No Standard	Based on APHA (2017), 5310 B	Bangkok

**Guideline :**

**Sampled By :** Pathompong Kornawat , Thanasoun Namakunna

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Approved by

Narin Saiseng  
Supervisor





## 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 :** Water Testing

**Project Location:** Map Ta Phut\_PU (PPTL)

**Lot ID: 2224905**

Date Received : Apr 05, 2022

Date Reported : Apr 12, 2022

Report Number : 2241895-1

Page 1 of 1

<b>Sample Number</b>	2224905-1
<b>Sampled Date</b>	Apr 05, 2022 9:27 AM
<b>Sample Description</b>	Wastewater
<b>Location</b>	H-304
<b>Date Analysis Commenced</b>	Apr 05, 2022
<b>Condition of Sample</b>	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
<b>Water Testing</b>							
BOD (5 days at 20 Degree C)	mg/L	-	2	<2	≤20	APHA (2017), 5210 B	Rayong
COD	mg/L	1.5	5	24	≤120	APHA (2017), 5220 D	Rayong
Color (at Original pH)	ADMI	-	5	16	≤300	APHA (2017), 2120 F	Rayong
Color (at pH 7.0)	ADMI	-	5	14	≤300	APHA (2017), 2120 F	Rayong
Oil & Grease	mg/L	-	3	<3	≤5	Based on APHA (2017), 5520 B	Rayong
pH at 25 degree C		-	-	7.7	5.5-9.0	Based on APHA (2017), 4500-H (B)	Rayong
Temperature *	Degree C	-	-	28.4	≤40	Based on APHA (2017), 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	500	≤3000	APHA (2017), 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	<5	≤50	APHA (2017), 2540 D	Rayong

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

**Sampled By :** Pathompong Kornasawat , Thanasoun Namakunna

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Technical Management

*N. Banchongkit*

Narumon Banchongkit

Supervisor

ทะเบียนเลขที่ จ-323-จ-9445

Approved by

*D. Changchon*

Dej Changchon

Senior Manager

ทะเบียนเลขที่ จ-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 :**

**Project Name :** Water Testing

**Project Location:** Map Ta Phut\_PU (PPTL)

**Lot ID: 2224905**

Date Received : Apr 05, 2022

Date Reported : Apr 12, 2022

Report Number : 2241895-2

Page 1 of 1

**Sample Number** 2224905-1  
**Sampled Date** Apr 05, 2022 9:27 AM  
**Sample Description** Wastewater  
**Location** H-304  
**Date Analysis Commenced** Apr 07, 2022  
**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
<b>Water Testing</b>							
Total Organic Carbon	mg/L	0.01	0.1	6.99	No Standard	Based on APHA (2017), 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).

**Sampled By :** Pathompong Kornawat , Thanasoun Namakunna

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Approved by

Nanthawadee Somboon  
Specialist 1



## 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 :** 4512615548

**Project Name :** Water Testing

**Project Location:** Map Ta Phut\_PU (PPTL)

**Lot ID: 2232246**

Date Received : May 03, 2022

Date Reported : May 11, 2022

Report Number : 2256884-1

Page 1 of 1

<b>Sample Number</b>	2232246-1
<b>Sampled Date</b>	May 03, 2022 10:00 AM
<b>Sample Description</b>	Wastewater
<b>Location</b>	H-304
<b>Date Analysis Commenced</b>	May 03, 2022
<b>Condition of Sample</b>	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
<b>Water Testing</b>							
BOD (5 days at 20 Degree C)	mg/L	-	2	2	≤20	APHA (2017), 5210 B	Rayong
COD	mg/L	1.5	5	18	≤120	APHA (2017), 5220 D	Rayong
Color (at Original pH)	ADMI	-	5	13	≤300	APHA (2017), 2120 F	Rayong
Color (at pH 7.0)	ADMI	-	5	11	≤300	APHA (2017), 2120 F	Rayong
Oil & Grease	mg/L	-	3	<3	≤5	Based on APHA (2017), 5520 B	Rayong
pH at 25 degree C		-	-	7.4	5.5-9.0	Based on APHA (2017), 4500-H (B)	Rayong
Temperature *	Degree C	-	-	28.1	≤40	Based on APHA (2017), 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	108	≤3000	APHA (2017), 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	5	≤50	APHA (2017), 2540 D	Rayong

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

**Sampled By :** Pathompong Kornasawat , Thanasoun Namakunna

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Technical Management

*N. Banongkit*

Narumon Banchongkit

Supervisor

ทะเบียนเลขที่ จ-323-จ-9445

Approved by

*D. Changchon*

Dej Changchon

Senior Manager

ทะเบียนเลขที่ จ-323-ค-9442

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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 :** 4512615548

**Project Name :** Water Testing

**Project Location:** Map Ta Phut\_PU (PPTL)

**Lot ID: 2232246**

Date Received : May 03, 2022

Date Reported : May 11, 2022

Report Number : 2256884-2

Page 1 of 1

<b>Sample Number</b>	2232246-1
<b>Sampled Date</b>	May 03, 2022 10:00 AM
<b>Sample Description</b>	Wastewater
<b>Location</b>	H-304
<b>Date Analysis Commenced</b>	May 05, 2022
<b>Condition of Sample</b>	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
<b>Water Testing</b>							
Total Organic Carbon	mg/L	0.01	0.1	3.59	No Standard	Based on APHA (2017), 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).

**Sampled By :** Pathompong Kornawat , Thanasoun Namakunna

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Approved by

Narin Saiseng  
Supervisor





## 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 :** 4512615548

**Project Name :** Water Testing

**Project Location:** Map Ta Phut\_PU (PPTL)

**Lot ID: 2256977**

Date Received : Jun 08, 2022

Date Reported : Jun 16, 2022

Report Number : 2311094-1

Page 1 of 1

<b>Sample Number</b>	2256977-1
<b>Sampled Date</b>	Jun 08, 2022 9:35 AM
<b>Sample Description</b>	Wastewater
<b>Location</b>	H-304
<b>Date Analysis Commenced</b>	Jun 08, 2022
<b>Condition of Sample</b>	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
<b>Water Testing</b>							
BOD (5 days at 20 Degree C)	mg/L	-	2	<2	≤20	APHA (2017), 5210 B	Rayong
COD	mg/L	1.5	5	21	≤120	APHA (2017), 5220 D	Rayong
Color (at Original pH)	ADMI	-	5	16	≤300	APHA (2017), 2120 F	Rayong
Color (at pH 7.0)	ADMI	-	5	14	≤300	APHA (2017), 2120 F	Rayong
Oil & Grease	mg/L	-	3	<3	≤5	Based on APHA (2017), 5520 B	Rayong
pH at 25 degree C		-	-	7.1	5.5-9.0	Based on APHA (2017), 4500-H (B)	Rayong
Temperature *	Degree C	-	-	30.9	≤40	Based on APHA (2017), 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	294	≤3000	APHA (2017), 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	6	≤50	APHA (2017), 2540 D	Rayong

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

**Sampled By :** Pathompong Kornasawat , 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.
- 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 :** 4512615548

**Project Name :** Water Testing

**Project Location:** Map Ta Phut\_PU (PPTL)

**Lot ID: 2256977**

Date Received : Jun 08, 2022

Date Reported : Jun 15, 2022

Report Number : 2311094-2

Page 1 of 1

<b>Sample Number</b>	2256977-1
<b>Sampled Date</b>	Jun 08, 2022 9:35 AM
<b>Sample Description</b>	Wastewater
<b>Location</b>	H-304
<b>Date Analysis Commenced</b>	Jun 09, 2022
<b>Condition of Sample</b>	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
<b>Water Testing</b>							
Total Organic Carbon	mg/L	0.01	0.1	6.01	No Standard	Based on APHA (2017), 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).

**Sampled By :** Pathompong Kornawat , Thanasoun Namakunna

Remark :

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

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Approved by

Narin Saiseng  
Supervisor

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

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: 21143783**

Date Received : Jan 19, 2022

Date Reported : Jun 27, 2022

Report Number : 2173088-1 C4

Page 1 of 1

<b>Sample Number</b>	21143783-1
<b>Sampling Date</b>	Jan 19, 2022 10:30 AM
<b>Sample Description</b>	Wastewater
<b>Location</b>	Outfall
<b>Date Analysis Commenced</b>	Jan 19, 2022
<b>Condition of Sample</b>	Contained in two amber glass bottles, seven plastic bottles and six glass vials, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
BOD (5 days at 20 Degree C)	mg/L	-	2	<2	≤20	APHA (2017), 5210 B	Rayong
COD	mg/L	1.5	5	29	≤120	APHA (2017), 5220 D	Rayong
Color (at Original pH)	ADMI	-	5	13	≤300	APHA (2017), 2120 F	Rayong
Color (at pH 7.0)	ADMI	-	5	11	≤300	APHA (2017), 2120 F	Rayong
Oil & Grease	mg/L	-	3	<3	≤5	Based on APHA (2017), 5520 B	Rayong
pH at 25 degree C		-	-	8.3	5.5-9.0	Based on APHA (2017), 4500-H (B)	Rayong
Temperature *	Degree C	-	-	30.1	≤40	Based on APHA (2017), 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	656	≤3000	APHA (2017), 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	10	≤50	APHA (2017), 2540 D	Rayong

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

**Sampling By :** Wanlop Hunchainaow , 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: 21143783**

Date Received : Jan 19, 2022

Date Reported : Jun 27, 2022

Report Number : 2173088-3 C4

Page 1 of 1

**Sample Number** 21143783-1  
**Sampling Date** Jan 19, 2022 10:30 AM  
**Sample Description** Wastewater  
**Location** Outfall  
**Date Analysis Commenced** Jan 20, 2022  
**Condition of Sample** Contained in two amber glass bottles, seven plastic bottles and six glass vials, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
Total Organic Carbon	mg/L	0.01	0.1	6.89	No Standard	Based on APHA (2017), 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 :

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Approved by

*Sawitree N.*

Sawitree Noisangiam  
Manager

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

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: 221491**

Date Received : Feb 02, 2022

Date Reported : Jun 27, 2022

Report Number : 2195053-1 C4

Page 1 of 1

<b>Sample Number</b>	221491-1
<b>Sampling Date</b>	Feb 02, 2022 10:42 AM
<b>Sample Description</b>	Wastewater
<b>Location</b>	Outfall
<b>Date Analysis Commenced</b>	Feb 02, 2022
<b>Condition of Sample</b>	Contained in two amber glass bottles, seven plastic bottles and four glass vials, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
BOD (5 days at 20 Degree C)	mg/L	-	2	<2	≤20	APHA (2017), 5210 B	Rayong
COD	mg/L	1.5	5	25	≤120	APHA (2017), 5220 D	Rayong
Color (at Original pH)	ADMI	-	5	5	≤300	APHA (2017), 2120 F	Rayong
Color (at pH 7.0)	ADMI	-	5	5	≤300	APHA (2017), 2120 F	Rayong
Oil & Grease	mg/L	-	3	<3	≤5	Based on APHA (2017), 5520 B	Rayong
pH at 25 degree C		-	-	8.3	5.5-9.0	Based on APHA (2017), 4500-H (B)	Rayong
Temperature *	Degree C	-	-	34.6	≤40	Based on APHA (2017), 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	796	≤3000	APHA (2017), 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	<5	≤50	APHA (2017), 2540 D	Rayong

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

**Sampling By :** Pathompong Kornawat , 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. 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: 221491**

Date Received : Feb 02, 2022

Date Reported : Jun 27, 2022

Report Number : 2195053-3 C4

Page 1 of 1

<b>Sample Number</b>	221491-1						
<b>Sampling Date</b>	Feb 02, 2022 10:42 AM						
<b>Sample Description</b>	Wastewater						
<b>Location</b>	Outfall						
<b>Date Analysis Commenced</b>	Feb 03, 2022						
<b>Condition of Sample</b>	Contained in two amber glass bottles, seven plastic bottles and four glass vials, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						
<b>Analyte</b>	<b>Unit</b>	<b>LOD</b>	<b>LOQ (LOR)</b>	<b>Result</b>	<b>Guideline / Specification</b>	<b>Method</b>	<b>Testing Location</b>
<b>Water Testing</b>							
Total Organic Carbon	mg/L	0.01	0.1	10.5	No Standard	Based on APHA (2017), 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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Approved by

Siriluk P.

Siriluk Puengpang  
Supervisor

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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: 2217933**

Date Received : Mar 08, 2022

Date Reported : Mar 17, 2022

Report Number : 2227861-1 Rev. No.1C4

Page 1 of 1

<b>Sample Number</b>	2217933-1
<b>Sampling Date</b>	Mar 08, 2022 10:05 AM
<b>Sample Description</b>	Wastewater
<b>Location</b>	Outfall
<b>Date Analysis Commenced</b>	Mar 08, 2022
<b>Condition of Sample</b>	Contained in four amber glass bottles, eight plastic bottles and six glass vials, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
BOD (5 days at 20 Degree C)	mg/L	-	2	<2	≤20	APHA (2017), 5210 B	Rayong
COD	mg/L	1.5	5	19	≤120	APHA (2017), 5220 D	Rayong
Color (at Original pH)	ADMI	-	5	17	≤300	APHA (2017), 2120 F	Rayong
Color (at pH 7.0)	ADMI	-	5	15	≤300	APHA (2017), 2120 F	Rayong
Oil & Grease	mg/L	-	3	<3	≤5	Based on APHA (2017), 5520 B	Rayong
pH at 25 degree C		-	-	8.1	5.5-9.0	Based on APHA (2017), 4500-H (B)	Rayong
Temperature *	Degree C	-	-	30.8	≤40	Based on APHA (2017), 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	692	≤3000	APHA (2017), 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	10	≤50	APHA (2017), 2540 D	Rayong

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

**Note :** This Analysis test report is reissued to supersede report No.2227861-3, Date Reported : Mar 16, 2022 due to revise sampling information.

**Sampling By :** Satcha Phetsawaeng , Thitipong Buadaeng

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: 2217933**

Date Received : Mar 08, 2022

Date Reported : Mar 17, 2022

Report Number : 2227861-3 Rev. No.1C4

Page 1 of 1

<b>Sample Number</b>	2217933-1						
<b>Sampling Date</b>	Mar 08, 2022 10:05 AM						
<b>Sample Description</b>	Wastewater						
<b>Location</b>	Outfall						
<b>Date Analysis Commenced</b>	Mar 09, 2022						
<b>Condition of Sample</b>	Contained in four amber glass bottles, eight plastic bottles and six glass vials, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
Total Organic Carbon	mg/L	0.01	0.1	8.52	No Standard	Based on APHA (2017), 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 :** This Analysis test report is reissued to supersede report No.2227861-3, Date Reported : Mar 16, 2022 due to revise sampling information.

**Sampling By :** Satcha Phetsawaeng , Thitipong Buadaeng

Remark :

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

Approved by

Siriluk P.

Siriluk Puengpang  
Supervisor

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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: 2223879**

Date Received : Apr 05, 2022

Date Reported : Apr 13, 2022

Report Number : 2239754-1 C4

Page 1 of 1

<b>Sample Number</b>	2223879-1
<b>Sampling Date</b>	Apr 05, 2022 10:44 AM
<b>Sample Description</b>	Wastewater
<b>Location</b>	Outfall
<b>Date Analysis Commenced</b>	Apr 05, 2022
<b>Condition of Sample</b>	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
<b>Water Testing</b>							
BOD (5 days at 20 Degree C)	mg/L	-	2	<2	≤20	APHA (2017), 5210 B	Rayong
COD	mg/L	1.5	5	20	≤120	APHA (2017), 5220 D	Rayong
Color (at Original pH)	ADMI	-	5	17	≤300	APHA (2017), 2120 F	Rayong
Color (at pH 7.0)	ADMI	-	5	15	≤300	APHA (2017), 2120 F	Rayong
Oil & Grease	mg/L	-	3	<3	≤5	Based on APHA (2017), 5520 B	Rayong
pH at 25 degree C		-	-	8.2	5.5-9.0	Based on APHA (2017), 4500-H (B)	Rayong
Temperature *	Degree C	-	-	28.4	≤40	Based on APHA (2017), 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	612	≤3000	APHA (2017), 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	6	≤50	APHA (2017), 2540 D	Rayong

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

**Sampling By :** Pathompong Kornawat, 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. 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: 2223879**

Date Received : Apr 05, 2022

Date Reported : Apr 13, 2022

Report Number : 2239754-3 C4

Page 1 of 1

<b>Sample Number</b>	2223879-1						
<b>Sampling Date</b>	Apr 05, 2022 10:44 AM						
<b>Sample Description</b>	Wastewater						
<b>Location</b>	Outfall						
<b>Date Analysis Commenced</b>	Apr 06, 2022						
<b>Condition of Sample</b>	Contained in six glass vials, two amber glass bottles and seven plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						
<b>Analyte</b>	<b>Unit</b>	<b>LOD</b>	<b>LOQ (LOR)</b>	<b>Result</b>	<b>Guideline / Specification</b>	<b>Method</b>	<b>Testing Location</b>
<b>Water Testing</b>							
Total Organic Carbon	mg/L	0.01	0.1	6.90	No Standard	Based on APHA (2017), 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 :

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

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Approved by

*Sawitree N.*

Sawitree Noisangiam  
Assistant Manager

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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: 2232230**

Date Received : May 03, 2022

Date Reported : May 13, 2022

Report Number : 2256860-1 C4

Page 1 of 1

<b>Sample Number</b>	2232230-1
<b>Sampling Date</b>	May 03, 2022 11:15 AM
<b>Sample Description</b>	Wastewater
<b>Location</b>	Outfall
<b>Date Analysis Commenced</b>	May 03, 2022
<b>Condition of Sample</b>	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
<b>Water Testing</b>							
BOD (5 days at 20 Degree C)	mg/L	-	2	<2	≤20	APHA (2017), 5210 B	Rayong
COD	mg/L	1.5	5	22	≤120	APHA (2017), 5220 D	Rayong
Color (at Original pH)	ADMI	-	5	6	≤300	APHA (2017), 2120 F	Rayong
Color (at pH 7.0)	ADMI	-	5	5	≤300	APHA (2017), 2120 F	Rayong
Oil & Grease	mg/L	-	3	<3	≤5	Based on APHA (2017), 5520 B	Rayong
pH at 25 degree C		-	-	7.6	5.5-9.0	Based on APHA (2017), 4500-H (B)	Rayong
Temperature *	Degree C	-	-	29.7	≤40	Based on APHA (2017), 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	380	≤3000	APHA (2017), 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	<5	≤50	APHA (2017), 2540 D	Rayong

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

**Sampling By :** Pathompong Kornawat, 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. 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: 2232230**

Date Received : May 03, 2022

Date Reported : May 13, 2022

Report Number : 2256860-3 C4

Page 1 of 1

<b>Sample Number</b>	2232230-1						
<b>Sampling Date</b>	May 03, 2022 11:15 AM						
<b>Sample Description</b>	Wastewater						
<b>Location</b>	Outfall						
<b>Date Analysis Commenced</b>	May 04, 2022						
<b>Condition of Sample</b>	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
<b>Water Testing</b>							
Total Organic Carbon	mg/L	0.01	0.1	5.49	No Standard	Based on APHA (2017), 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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Approved by

*Sawitree N.*

Sawitree Noisangiam  
Manager

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

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: 2255925**

Date Received : Jun 08, 2022

Date Reported : Jun 27, 2022

Report Number : 2308375-1 C4

Page 1 of 1

<b>Sample Number</b>	2255925-1
<b>Sampling Date</b>	Jun 08, 2022 11:15 AM
<b>Sample Description</b>	Wastewater
<b>Location</b>	Outfall
<b>Date Analysis Commenced</b>	Jun 08, 2022
<b>Condition of Sample</b>	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
<b>Water Testing</b>							
BOD (5 days at 20 Degree C)	mg/L	-	2	<2	≤20	APHA (2017), 5210 B	Rayong
COD	mg/L	1.5	5	25	≤120	APHA (2017), 5220 D	Rayong
Color (at Original pH)	ADMI	-	5	13	≤300	APHA (2017), 2120 F	Rayong
Color (at pH 7.0)	ADMI	-	5	11	≤300	APHA (2017), 2120 F	Rayong
Oil & Grease	mg/L	-	3	<3	≤5	Based on APHA (2017), 5520 B	Rayong
pH at 25 degree C		-	-	8.3	5.5-9.0	Based on APHA (2017), 4500-H (B)	Rayong
Temperature *	Degree C	-	-	33.4	≤40	Based on APHA (2017), 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	716	≤3000	APHA (2017), 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	<5	≤50	APHA (2017), 2540 D	Rayong

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

**Sampling By :** Pathompong Kornawat, 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. 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: 2255925**

Date Received : Jun 08, 2022

Date Reported : Jun 27, 2022

Report Number : 2308375-3 C4

Page 1 of 1

**Sample Number** 2255925-1  
**Sampling Date** Jun 08, 2022 11:15 AM  
**Sample Description** Wastewater  
**Location** Outfall  
**Date Analysis Commenced** Jun 09, 2022  
**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
<b>Water Testing</b>							
Total Organic Carbon	mg/L	0.01	0.1	8.21	No Standard	Based on APHA (2017), 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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Approved by

*Chanatt L.*

Chanattagarn Imchom  
Supervisor

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## ภาคผนวก ค-2

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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: 2227102

Date Received : Mar 14, 2022

Date Reported : Mar 19, 2022

Report Number: 2262408-1

Page 1 of 1

Sample Number 2227102-1  
Parameter Noise (Leq 24 hrs.)  
Location ชุมชนตากวน-อ่าวประดู่ (GPS 47P 0735531, 1402769)  
Measurement Date Mar 07 - Mar 08, 2022  
Measurement by Satcha Phetsawaeng  
Sound Level meter Serial No. 233183

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
06:00 PM - 07:00 PM	59.4	89.0	54.6
07:00 PM - 08:00 PM	54.5	74.0	50.8
08:00 PM - 09:00 PM	54.1	79.9	49.1
09:00 PM - 10:00 PM	51.1	73.0	46.9
10:00 PM - 11:00 PM	53.1	74.8	45.4
11:00 PM - 12:00 AM	54.1	75.7	50.2
12:00 AM - 01:00 AM	53.7	74.2	50.4
01:00 AM - 02:00 AM	51.6	66.5	48.8
02:00 AM - 03:00 AM	53.6	65.1	52.0
03:00 AM - 04:00 AM	48.9	64.5	46.2
04:00 AM - 05:00 AM	48.6	65.5	41.2
05:00 AM - 06:00 AM	53.9	72.1	47.3
06:00 AM - 07:00 AM	57.2	75.8	53.7
07:00 AM - 08:00 AM	55.3	75.2	49.9
08:00 AM - 09:00 AM	54.9	73.1	52.7
09:00 AM - 10:00 AM	53.6	74.7	50.5
10:00 AM - 11:00 AM	52.8	66.6	50.1
11:00 AM - 12:00 PM	51.5	69.6	44.9
12:00 PM - 01:00 PM	53.1	73.2	48.4
01:00 PM - 02:00 PM	53.9	72.9	50.0
02:00 PM - 03:00 PM	53.7	68.3	47.8
03:00 PM - 04:00 PM	54.2	74.1	47.9
04:00 PM - 05:00 PM	55.5	77.9	50.5
05:00 PM - 06:00 PM	54.9	82.8	50.2

Leq Average 24 hrs. (dB(A)) 54.2  
Lmax (dB(A)) 89.0  
L90 (dB(A)) 49.9  
Ldn (dB(A)) 60.0  
Standard (dB(A)) 70

Reference Method : ISO1996-1 and 1996-2

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

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: 2227102**

Date Received : Mar 14, 2022

Date Reported : Mar 19, 2022

Report Number: 2262409-1

Page 1 of 1

**Sample Number** 2227102-2  
**Parameter** Noise (Leq 24 hrs.)  
**Location** ชุมชนตากวน-อ่าวประดู่ (GPS 47P 0735531, 1402769)  
**Measurement Date** Mar 08 - Mar 09, 2022  
**Measurement by** Satcha Phetsawaeng  
**Sound Level meter** Serial No. 233183

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
06:00 PM - 07:00 PM	58.0	73.8	54.5
07:00 PM - 08:00 PM	55.0	73.8	51.3
08:00 PM - 09:00 PM	55.2	80.1	50.4
09:00 PM - 10:00 PM	51.4	72.2	47.6
10:00 PM - 11:00 PM	49.8	74.2	42.6
11:00 PM - 12:00 AM	49.2	74.1	43.2
12:00 AM - 01:00 AM	49.1	74.1	42.6
01:00 AM - 02:00 AM	47.1	70.4	41.6
02:00 AM - 03:00 AM	49.9	68.8	43.1
03:00 AM - 04:00 AM	53.9	68.0	49.8
04:00 AM - 05:00 AM	52.1	65.9	46.7
05:00 AM - 06:00 AM	58.6	70.7	56.0
06:00 AM - 07:00 AM	57.2	72.8	53.0
07:00 AM - 08:00 AM	55.1	79.2	51.6
08:00 AM - 09:00 AM	53.5	70.7	49.8
09:00 AM - 10:00 AM	52.7	74.3	46.4
10:00 AM - 11:00 AM	57.4	77.2	53.3
11:00 AM - 12:00 PM	57.6	71.9	52.6
12:00 PM - 01:00 PM	57.2	80.0	52.0
01:00 PM - 02:00 PM	51.6	70.1	46.6
02:00 PM - 03:00 PM	52.9	68.7	49.2
03:00 PM - 04:00 PM	56.1	74.5	52.2
04:00 PM - 05:00 PM	54.3	75.8	49.3
05:00 PM - 06:00 PM	56.0	80.8	51.0

Leq Average 24 hrs. (dB(A)) 54.8  
Lmax (dB(A)) 80.8  
L90 (dB(A)) 49.8  
Ldn (dB(A)) 60.3  
Standard (dB(A)) 70

Reference Method : ISO1996-1 and 1996-2

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

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: 2227102**

Date Received : Mar 14, 2022

Date Reported : Mar 19, 2022

Report Number: 2262410-1

Page 1 of 1

**Sample Number** 2227102-3  
**Parameter** Noise (Leq 24 hrs.)  
**Location** ชุมชนตากวน-อ่าวประดู่ (GPS 47P 0735531, 1402769)  
**Measurement Date** Mar 09 - Mar 10, 2022  
**Measurement by** Satcha Phetsawaeng  
**Sound Level meter** Serial No. 233183

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
06:00 PM - 07:00 PM	60.9	79.4	58.4
07:00 PM - 08:00 PM	54.5	75.7	50.8
08:00 PM - 09:00 PM	54.4	77.8	50.3
09:00 PM - 10:00 PM	55.3	78.7	48.0
10:00 PM - 11:00 PM	51.5	76.7	46.1
11:00 PM - 12:00 AM	50.5	73.0	45.6
12:00 AM - 01:00 AM	54.0	73.1	49.8
01:00 AM - 02:00 AM	49.1	72.0	44.9
02:00 AM - 03:00 AM	54.7	73.4	51.7
03:00 AM - 04:00 AM	50.6	73.8	42.7
04:00 AM - 05:00 AM	49.3	69.0	43.6
05:00 AM - 06:00 AM	50.6	70.5	45.7
06:00 AM - 07:00 AM	56.8	74.8	54.0
07:00 AM - 08:00 AM	56.2	77.6	53.3
08:00 AM - 09:00 AM	53.1	68.3	49.3
09:00 AM - 10:00 AM	55.0	77.0	49.6
10:00 AM - 11:00 AM	53.3	75.1	48.2
11:00 AM - 12:00 PM	59.1	72.9	52.9
12:00 PM - 01:00 PM	54.0	70.1	49.1
01:00 PM - 02:00 PM	59.7	83.6	55.7
02:00 PM - 03:00 PM	52.1	69.0	48.1
03:00 PM - 04:00 PM	51.7	71.3	47.4
04:00 PM - 05:00 PM	53.6	74.1	48.9
05:00 PM - 06:00 PM	54.6	77.6	49.7

Leq Average 24 hrs. (dB(A)) 55.1  
Lmax (dB(A)) 83.6  
L90 (dB(A)) 49.1  
Ldn (dB(A)) 59.8  
Standard (dB(A)) 70

Reference Method : ISO1996-1 and 1996-2

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

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.0009

Client : Dow Chemical Thailand Ltd.

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

Lot ID: 2227104

Date Received : Mar 14, 2022

Date Reported : Mar 18, 2022

Report Number : 2264712-1

P/O :

Project Name : Environmental Quality Monitoring

Project Location : Map Ta Phut\_PU (PPTL)

Page 1 of 3

Sample No. 2227104-1  
Parameter เสียงรบกวน  
Location ชุมชนตากวน-อ่าวประดู่ (GPS 47P 0735531, 1402769)  
Measurement Date Mar 07 - 08, 2022  
Measurement by Satcha Phetsawaeng  
Sound Level Meter 00233183

### ระดับเสียง (dB(A))

เวลา	(A)		(B)		(A-B)		(C)		(D)		(E)		(D-E)	
	เสียงจากแหล่งกำเนิด	เสียงขณะไม่มีการรบกวน	ผลต่างระดับเสียง	ตัวปรับค่า	ปรับค่าเสียงจากแหล่งกำเนิดกลางวัน (A-C)	กลางคืน (A-C)+3	เสียงพื้นฐาน	การรบกวน	ปรับค่าเสียงจากแหล่งกำเนิดกลางวัน (A-C)	กลางคืน (A-C)+3	เสียงพื้นฐาน	การรบกวน	ปรับค่าเสียงจากแหล่งกำเนิดกลางวัน (A-C)	กลางคืน (A-C)+3
06:00 PM - 07:00 PM	59.4	56.2	3.2	3.0	56.4	-	50.2	6.2	56.4	-	50.2	6.2	56.4	-
07:00 PM - 08:00 PM	54.5	56.3	-1.8	7.0	47.5	-	51.0	-3.5	47.5	-	51.0	-3.5	47.5	-
08:00 PM - 09:00 PM	54.1	54.9	-0.8	7.0	47.1	-	49.1	-2.0	47.1	-	49.1	-2.0	47.1	-
09:00 PM - 10:00 PM	51.1	51.9	-0.8	7.0	44.1	-	47.7	-3.6	44.1	-	47.7	-3.6	44.1	-
10:00 PM - 10:05 PM	50.1	51.1	-1.0	7.0	-	46.1	47.0	-0.9	-	46.1	47.0	-0.9	-	46.1
10:05 PM - 10:10 PM	53.3	50.2	3.1	3.0	-	53.3	46.8	6.5	-	53.3	46.8	6.5	-	53.3
10:10 PM - 10:15 PM	53.6	51.7	1.9	4.5	-	52.1	46.8	5.3	-	52.1	46.8	5.3	-	52.1
10:15 PM - 10:20 PM	50.5	52.4	-1.9	7.0	-	46.5	47.6	-1.1	-	46.5	47.6	-1.1	-	46.5
10:20 PM - 10:25 PM	53.6	51.8	1.8	4.5	-	52.1	48.0	4.1	-	52.1	48.0	4.1	-	52.1
10:25 PM - 10:30 PM	50.4	51.7	-1.3	7.0	-	46.4	47.6	-1.2	-	46.4	47.6	-1.2	-	46.4
10:30 PM - 10:35 PM	51.8	51.8	0.0	7.0	-	47.8	47.8	0.0	-	47.8	47.8	0.0	-	47.8
10:35 PM - 10:40 PM	54.0	51.3	2.7	3.0	-	54.0	48.4	5.6	-	54.0	48.4	5.6	-	54.0
10:40 PM - 10:45 PM	57.3	54.9	2.4	4.5	-	55.8	48.1	7.7	-	55.8	48.1	7.7	-	55.8
10:45 PM - 10:50 PM	55.2	51.5	3.7	2.0	-	56.2	48.0	8.2	-	56.2	48.0	8.2	-	56.2
10:50 PM - 10:55 PM	49.5	51.7	-2.2	7.0	-	45.5	47.6	-2.1	-	45.5	47.6	-2.1	-	45.5
10:55 PM - 11:00 PM	48.4	50.6	-2.2	7.0	-	44.4	47.8	-3.4	-	44.4	47.8	-3.4	-	44.4
11:00 PM - 11:05 PM	50.6	50.5	0.1	7.0	-	46.6	48.6	-2.0	-	46.6	48.6	-2.0	-	46.6
11:05 PM - 11:10 PM	57.3	49.6	7.7	0.5	-	59.8	47.2	12.6	-	59.8	47.2	12.6	-	59.8
11:10 PM - 11:15 PM	49.6	50.2	-0.6	7.0	-	45.6	46.4	-0.8	-	45.6	46.4	-0.8	-	45.6
11:15 PM - 11:20 PM	50.7	48.6	2.1	4.5	-	49.2	46.5	2.7	-	49.2	46.5	2.7	-	49.2
11:20 PM - 11:25 PM	51.9	50.7	1.2	7.0	-	47.9	47.2	0.7	-	47.9	47.2	0.7	-	47.9
11:25 PM - 11:30 PM	50.6	53.2	-2.6	7.0	-	46.6	49.0	-2.4	-	46.6	49.0	-2.4	-	46.6
11:30 PM - 11:35 PM	49.5	49.1	0.4	7.0	-	45.5	45.9	-0.4	-	45.5	45.9	-0.4	-	45.5
11:35 PM - 11:40 PM	51.0	48.5	2.5	3.0	-	51.0	46.0	5.0	-	51.0	46.0	5.0	-	51.0
11:40 PM - 11:45 PM	50.7	50.1	0.6	7.0	-	46.7	46.1	0.6	-	46.7	46.1	0.6	-	46.7
11:45 PM - 11:50 PM	58.9	50.4	8.5	0.5	-	61.4	46.7	14.7	-	61.4	46.7	14.7	-	61.4
11:50 PM - 11:55 PM	58.3	50.1	8.2	0.5	-	60.8	45.4	15.4	-	60.8	45.4	15.4	-	60.8
11:55 PM - 12:00 AM	52.1	51.7	0.4	7.0	-	48.1	46.1	2.0	-	48.1	46.1	2.0	-	48.1
12:00 AM - 12:05 AM	47.4	48.2	-0.8	7.0	-	43.4	45.8	-2.4	-	43.4	45.8	-2.4	-	43.4
12:05 AM - 12:10 AM	48.9	49.4	-0.5	7.0	-	44.9	46.9	-2.0	-	44.9	46.9	-2.0	-	44.9
12:10 AM - 12:15 AM	51.7	49.7	2.0	4.5	-	50.2	47.9	2.3	-	50.2	47.9	2.3	-	50.2
12:15 AM - 12:20 AM	48.5	50.8	-2.3	7.0	-	44.5	48.3	-3.8	-	44.5	48.3	-3.8	-	44.5
12:20 AM - 12:25 AM	46.6	50.6	-4.0	7.0	-	42.6	47.6	-5.0	-	42.6	47.6	-5.0	-	42.6
12:25 AM - 12:30 AM	49.4	48.8	0.6	7.0	-	45.4	46.6	-1.2	-	45.4	46.6	-1.2	-	45.4
12:30 AM - 12:35 AM	54.2	49.8	4.4	2.0	-	55.2	47.0	8.2	-	55.2	47.0	8.2	-	55.2
12:35 AM - 12:40 AM	48.1	52.0	-3.9	7.0	-	44.1	47.5	-3.4	-	44.1	47.5	-3.4	-	44.1
12:40 AM - 12:45 AM	45.3	49.6	-4.3	7.0	-	41.3	46.7	-5.4	-	41.3	46.7	-5.4	-	41.3
12:45 AM - 12:50 AM	45.3	49.6	-4.3	7.0	-	41.3	46.9	-5.6	-	41.3	46.9	-5.6	-	41.3
12:50 AM - 12:55 AM	57.9	49.9	8.0	0.5	-	60.4	47.2	13.2	-	60.4	47.2	13.2	-	60.4
12:55 AM - 01:00 AM	61.3	49.9	11.4	0.5	-	63.8	46.8	17.0	-	63.8	46.8	17.0	-	63.8

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Approved by

*Kanok Korn Anek*

Kanok Korn Anek  
Senior Manager





## Analysis / Test Report

TESTING

No.0009

**Client :** Dow Chemical Thailand Ltd.

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

**Lot ID: 2227104**

Date Received : Mar 14, 2022

Date Reported : Mar 18, 2022

Report Number : 2264712-1

**P/O :**

**Project Name :** Environmental Quality Monitoring

**Project Location :** Map Ta Phut\_PU (PPTL)

Page 2 of 3

**Sample No.** 2227104-1  
**Parameter** เสียงรบกวน  
**Location** ชุมชนตากวน-อ่าวประดู่ (GPS 47P 0735531, 1402769)  
**Measurement Date** Mar 07 - 08, 2022  
**Measurement by** Satcha Phetsawaeng  
**Sound Level Meter** 00233183

### 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		
01:00 AM - 01:05 AM	59.6	49.2	10.4	0.5	-	62.1	46.7	15.4
01:05 AM - 01:10 AM	56.4	48.7	7.7	0.5	-	58.9	46.3	12.6
01:10 AM - 01:15 AM	50.1	48.8	1.3	7.0	-	46.1	46.9	-0.8
01:15 AM - 01:20 AM	44.6	49.0	-4.4	7.0	-	40.6	45.8	-5.2
01:20 AM - 01:25 AM	43.6	49.4	-5.8	7.0	-	39.6	45.9	-6.3
01:25 AM - 01:30 AM	47.0	48.9	-1.9	7.0	-	43.0	46.9	-3.9
01:30 AM - 01:35 AM	42.3	48.9	-6.6	7.0	-	38.3	46.7	-8.4
01:35 AM - 01:40 AM	42.5	54.8	-12.3	7.0	-	38.5	46.9	-8.4
01:40 AM - 01:45 AM	44.5	50.2	-5.7	7.0	-	40.5	47.5	-7.0
01:45 AM - 01:50 AM	46.5	48.6	-2.1	7.0	-	42.5	47.1	-4.6
01:50 AM - 01:55 AM	45.2	49.1	-3.9	7.0	-	41.2	46.4	-5.2
01:55 AM - 02:00 AM	44.6	49.4	-4.8	7.0	-	40.6	46.0	-5.4
02:00 AM - 02:05 AM	45.9	49.1	-3.2	7.0	-	41.9	46.4	-4.5
02:05 AM - 02:10 AM	42.7	47.4	-4.7	7.0	-	38.7	45.3	-6.6
02:10 AM - 02:15 AM	49.1	49.2	-0.1	7.0	-	45.1	45.8	-0.7
02:15 AM - 02:20 AM	50.2	48.0	2.2	4.5	-	48.7	46.8	1.9
02:20 AM - 02:25 AM	53.5	48.8	4.7	1.5	-	55.0	46.3	8.7
02:25 AM - 02:30 AM	53.4	48.7	4.7	1.5	-	54.9	46.3	8.6
02:30 AM - 02:35 AM	52.2	48.2	4.0	2.0	-	53.2	46.3	6.9
02:35 AM - 02:40 AM	54.7	47.7	7.0	1.0	-	56.7	46.0	10.7
02:40 AM - 02:45 AM	56.1	50.5	5.6	1.5	-	57.6	46.0	11.6
02:45 AM - 02:50 AM	57.5	49.7	7.8	0.5	-	60.0	45.5	14.5
02:50 AM - 02:55 AM	55.1	49.4	5.7	1.5	-	56.6	45.6	11.0
02:55 AM - 03:00 AM	54.6	48.7	5.9	1.5	-	56.1	45.4	10.7
03:00 AM - 03:05 AM	54.9	51.8	3.1	3.0	-	54.9	45.7	9.2
03:05 AM - 03:10 AM	52.4	49.3	3.1	3.0	-	52.4	45.4	7.0
03:10 AM - 03:15 AM	49.6	47.7	1.9	4.5	-	48.1	45.3	2.8
03:15 AM - 03:20 AM	47.7	47.0	0.7	7.0	-	43.7	44.9	-1.2
03:20 AM - 03:25 AM	46.0	48.6	-2.6	7.0	-	42.0	45.8	-3.8
03:25 AM - 03:30 AM	43.8	48.0	-4.2	7.0	-	39.8	45.7	-5.9
03:30 AM - 03:35 AM	46.5	47.8	-1.3	7.0	-	42.5	45.1	-2.6
03:35 AM - 03:40 AM	45.7	50.6	-4.9	7.0	-	41.7	46.1	-4.4
03:40 AM - 03:45 AM	46.1	48.6	-2.5	7.0	-	42.1	45.9	-3.8
03:45 AM - 03:50 AM	43.6	48.3	-4.7	7.0	-	39.6	45.3	-5.7
03:50 AM - 03:55 AM	45.9	49.2	-3.3	7.0	-	41.9	45.0	-3.1
03:55 AM - 04:00 AM	46.4	47.5	-1.1	7.0	-	42.4	45.0	-2.6
04:00 AM - 04:05 AM	47.2	49.4	-2.2	7.0	-	43.2	45.4	-2.2
04:05 AM - 04:10 AM	46.6	48.1	-1.5	7.0	-	42.6	45.9	-3.3
04:10 AM - 04:15 AM	44.4	49.3	-4.9	7.0	-	40.4	45.5	-5.1
04:15 AM - 04:20 AM	47.8	48.3	-0.5	7.0	-	43.8	46.2	-2.4

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Approved by

*Kanok Korn Anek*

Kanokkorn Anek  
Senior Manager





## Analysis / Test Report

TESTING

No.0009

Client : Dow Chemical Thailand Ltd.

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

Lot ID: 2227104

Date Received : Mar 14, 2022

Date Reported : Mar 18, 2022

Report Number : 2264712-1

P/O :

Project Name : Environmental Quality Monitoring

Project Location : Map Ta Phut\_PU (PPTL)

Page 3 of 3

Sample No. 2227104-1  
Parameter เสียงรบกวน  
Location ชุมชนตากวน-อ่าวประดู่ (GPS 47P 0735531, 1402769)  
Measurement Date Mar 07 - 08, 2022  
Measurement by Satcha Phetsawaeng  
Sound Level Meter 00233183

### 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		
04:20 AM - 04:25 AM	45.9	48.8	-2.9	7.0	-	41.9	45.9	-4.0
04:25 AM - 04:30 AM	48.2	50.1	-1.9	7.0	-	44.2	46.2	-2.0
04:30 AM - 04:35 AM	48.0	48.8	-0.8	7.0	-	44.0	45.8	-1.8
04:35 AM - 04:40 AM	47.1	48.4	-1.3	7.0	-	43.1	45.8	-2.7
04:40 AM - 04:45 AM	50.0	49.0	1.0	7.0	-	46.0	46.1	-0.1
04:45 AM - 04:50 AM	48.7	49.2	-0.5	7.0	-	44.7	45.8	-1.1
04:50 AM - 04:55 AM	52.2	49.3	2.9	3.0	-	52.2	46.1	6.1
04:55 AM - 05:00 AM	51.2	49.1	2.1	4.5	-	49.7	46.1	3.6
05:00 AM - 05:05 AM	51.8	49.2	2.6	3.0	-	51.8	46.7	5.1
05:05 AM - 05:10 AM	53.6	49.4	4.2	2.0	-	54.6	46.5	8.1
05:10 AM - 05:15 AM	51.9	50.2	1.7	4.5	-	50.4	47.3	3.1
05:15 AM - 05:20 AM	52.7	49.9	2.8	3.0	-	52.7	47.2	5.5
05:20 AM - 05:25 AM	54.7	50.3	4.4	2.0	-	55.7	47.2	8.5
05:25 AM - 05:30 AM	55.3	51.1	4.2	2.0	-	56.3	46.7	9.6
05:30 AM - 05:35 AM	54.1	50.2	3.9	2.0	-	55.1	47.8	7.3
05:35 AM - 05:40 AM	53.6	50.7	2.9	3.0	-	53.6	48.1	5.5
05:40 AM - 05:45 AM	52.5	51.8	0.7	7.0	-	48.5	48.2	0.3
05:45 AM - 05:50 AM	52.7	51.3	1.4	7.0	-	48.7	47.8	0.9
05:50 AM - 05:55 AM	52.4	52.5	-0.1	7.0	-	48.4	48.6	-0.2
05:55 AM - 06:00 AM	57.4	55.0	2.4	4.5	-	55.9	52.3	3.6
06:00 AM - 07:00 AM	57.2	54.6	2.6	3.0	54.2	-	50.0	4.2
07:00 AM - 08:00 AM	55.3	56.2	-0.9	7.0	48.3	-	51.2	-2.9
08:00 AM - 09:00 AM	54.9	55.4	-0.5	7.0	47.9	-	49.8	-1.9
09:00 AM - 10:00 AM	53.6	53.6	0.0	7.0	46.6	-	48.8	-2.2
10:00 AM - 11:00 AM	52.8	54.2	-1.4	7.0	45.8	-	48.0	-2.2
11:00 AM - 12:00 PM	51.5	55.7	-4.2	7.0	44.5	-	47.5	-3.0
12:00 PM - 01:00 PM	53.1	53.9	-0.8	7.0	46.1	-	47.5	-1.4
01:00 PM - 02:00 PM	53.9	54.4	-0.5	7.0	46.9	-	45.9	1.0
02:00 PM - 03:00 PM	53.7	54.1	-0.4	7.0	46.7	-	46.5	0.2
03:00 PM - 04:00 PM	54.2	53.6	0.6	7.0	47.2	-	47.1	0.1
04:00 PM - 05:00 PM	55.5	54.5	1.0	7.0	48.5	-	49.0	-0.5
05:00 PM - 06:00 PM	54.9	55.2	-0.3	7.0	47.9	-	50.6	-2.7

ค่ามาตรฐาน

≤ 10

Reference Method : Based on ISO 1996-1 and ISO 1996-2

มาตรฐาน

- ประกาศกระทรวงอุตสาหกรรม เรื่อง กำหนดค่าระดับเสียงการรบกวนและระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548
  - ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ เรื่อง ค่าระดับเสียงรบกวน ฉบับที่ 29 พ.ศ. 2550
  - ประกาศคณะกรรมการควบคุมมลพิษ เรื่อง วิธีการตรวจวัดระดับเสียงพื้นฐาน ระดับเสียงขณะไม่มีการรบกวน การตรวจวัดและคำนวณระดับเสียงขณะมีการรบกวน การคำนวณค่าระดับการรบกวน และแบบบันทึกการตรวจวัดเสียงรบกวน พ.ศ. 2550 และประกาศกรมโรงงานอุตสาหกรรม เรื่อง วิธีการตรวจวัดระดับเสียงรบกวน ระดับเสียงเฉลี่ย 24 ชั่วโมง และระดับเสียงสูงสุดที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2553
- ระดับเสียงจากแหล่งกำเนิด ทำการตรวจวัด วันที่ 07-08 มีนาคม 2565  
ระดับเสียงพื้นฐานและระดับเสียงขณะไม่มีการรบกวน (Sample No.2179912-1 วันที่ตรวจวัด 23-24 กรกฎาคม 2564)

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Approved by

Kanokkorn Anek  
Senior Manager



## Analysis / Test Report

TESTING

No.0009

**Client :** Dow Chemical Thailand Ltd.

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

**Lot ID: 2227104**

Date Received :Mar 14, 2022

Date Reported :Mar 18, 2022

Report Number : 2264713-1

**P/O :**

**Project Name :** Environmental Quality Monitoring

**Project Location :** Map Ta Phut\_PU (PPTL)

Page 1 of 3

**Sample No.** 2227104-2  
**Parameter** เสียงรบกวน  
**Location** ชุมชนตากวน-อ่าวประดู่ (GPS 47P 0735531, 1402769)  
**Measurement Date** Mar 08 - 09, 2022  
**Measurement by** Satcha Phetsawaeng  
**Sound Level Meter** 00233183

### ระดับเสียง (dB(A))

เวลา	(A)	(B)	(A-B)	(C)	(D)		(E)	(D-E)
	เสียงจากแหล่งกำเนิด	เสียงขณะ ไม่มีการรบกวน	ผลต่าง ระดับเสียง	ตัวปรับค่า	ปรับค่าเสียงจากแหล่งกำเนิด		เสียงพื้นฐาน	ค่าระดับการรบกวน
					กลางวัน (A-C)	กลางคืน (A-C)+3		
06:00 PM - 07:00 PM	58.0	56.2	1.8	4.5	53.5	-	50.2	3.3
07:00 PM - 08:00 PM	55.0	56.3	-1.3	7.0	48.0	-	51.0	-3.0
08:00 PM - 09:00 PM	55.2	54.9	0.3	7.0	48.2	-	49.1	-0.9
09:00 PM - 10:00 PM	51.4	51.9	-0.5	7.0	44.4	-	47.7	-3.3
10:00 PM - 10:05 PM	51.6	51.1	0.5	7.0	-	47.6	47.0	0.6
10:05 PM - 10:10 PM	50.4	50.2	0.2	7.0	-	46.4	46.8	-0.4
10:10 PM - 10:15 PM	47.9	51.7	-3.8	7.0	-	43.9	46.8	-2.9
10:15 PM - 10:20 PM	47.8	52.4	-4.6	7.0	-	43.8	47.6	-3.8
10:20 PM - 10:25 PM	47.4	51.8	-4.4	7.0	-	43.4	48.0	-4.6
10:25 PM - 10:30 PM	47.6	51.7	-4.1	7.0	-	43.6	47.6	-4.0
10:30 PM - 10:35 PM	45.5	51.8	-6.3	7.0	-	41.5	47.8	-6.3
10:35 PM - 10:40 PM	49.5	51.3	-1.8	7.0	-	45.5	48.4	-2.9
10:40 PM - 10:45 PM	47.0	54.9	-7.9	7.0	-	43.0	48.1	-5.1
10:45 PM - 10:50 PM	49.3	51.5	-2.2	7.0	-	45.3	48.0	-2.7
10:50 PM - 10:55 PM	55.3	51.7	3.6	2.0	-	56.3	47.6	8.7
10:55 PM - 11:00 PM	48.1	50.6	-2.5	7.0	-	44.1	47.8	-3.7
11:00 PM - 11:05 PM	49.5	50.5	-1.0	7.0	-	45.5	48.6	-3.1
11:05 PM - 11:10 PM	49.5	49.6	-0.1	7.0	-	45.5	47.2	-1.7
11:10 PM - 11:15 PM	50.2	50.2	0.0	7.0	-	46.2	46.4	-0.2
11:15 PM - 11:20 PM	48.6	48.6	0.0	7.0	-	44.6	46.5	-1.9
11:20 PM - 11:25 PM	52.1	50.7	1.4	7.0	-	48.1	47.2	0.9
11:25 PM - 11:30 PM	46.3	53.2	-6.9	7.0	-	42.3	49.0	-6.7
11:30 PM - 11:35 PM	47.3	49.1	-1.8	7.0	-	43.3	45.9	-2.6
11:35 PM - 11:40 PM	48.5	48.5	0.0	7.0	-	44.5	46.0	-1.5
11:40 PM - 11:45 PM	45.9	50.1	-4.2	7.0	-	41.9	46.1	-4.2
11:45 PM - 11:50 PM	49.8	50.4	-0.6	7.0	-	45.8	46.7	-0.9
11:50 PM - 11:55 PM	50.8	50.1	0.7	7.0	-	46.8	45.4	1.4
11:55 PM - 12:00 AM	47.1	51.7	-4.6	7.0	-	43.1	46.1	-3.0
12:00 AM - 12:05 AM	47.2	48.2	-1.0	7.0	-	43.2	45.8	-2.6
12:05 AM - 12:10 AM	53.2	49.4	3.8	2.0	-	54.2	46.9	7.3
12:10 AM - 12:15 AM	53.3	49.7	3.6	2.0	-	54.3	47.9	6.4
12:15 AM - 12:20 AM	49.3	50.8	-1.5	7.0	-	45.3	48.3	-3.0
12:20 AM - 12:25 AM	45.4	50.6	-5.2	7.0	-	41.4	47.6	-6.2
12:25 AM - 12:30 AM	47.5	48.8	-1.3	7.0	-	43.5	46.6	-3.1
12:30 AM - 12:35 AM	49.0	49.8	-0.8	7.0	-	45.0	47.0	-2.0
12:35 AM - 12:40 AM	47.9	52.0	-4.1	7.0	-	43.9	47.5	-3.6
12:40 AM - 12:45 AM	45.5	49.6	-4.1	7.0	-	41.5	46.7	-5.2
12:45 AM - 12:50 AM	47.6	49.6	-2.0	7.0	-	43.6	46.9	-3.3
12:50 AM - 12:55 AM	46.2	49.9	-3.7	7.0	-	42.2	47.2	-5.0
12:55 AM - 01:00 AM	46.3	49.9	-3.6	7.0	-	42.3	46.8	-4.5

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

*Kanok Korn Anek*

Kanokkorn Anek  
Senior Manager





## Analysis / Test Report

TESTING

No.0009

**Client :** Dow Chemical Thailand Ltd.

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

**Lot ID: 2227104**

Date Received : Mar 14, 2022

Date Reported : Mar 18, 2022

Report Number : 2264713-1

**P/O :**

**Project Name :** Environmental Quality Monitoring

**Project Location :** Map Ta Phut\_PU (PPTL)

Page 2 of 3

**Sample No.** 2227104-2  
**Parameter** เสียงรบกวน  
**Location** ชุมชนตากวน-อ่าวประดู่ (GPS 47P 0735531, 1402769)  
**Measurement Date** Mar 08 - 09, 2022  
**Measurement by** Satcha Phetsawaeng  
**Sound Level Meter** 00233183

### 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		
01:00 AM - 01:05 AM	51.3	49.2	2.1	4.5	-	49.8	46.7	3.1
01:05 AM - 01:10 AM	48.5	48.7	-0.2	7.0	-	44.5	46.3	-1.8
01:10 AM - 01:15 AM	45.1	48.8	-3.7	7.0	-	41.1	46.9	-5.8
01:15 AM - 01:20 AM	47.6	49.0	-1.4	7.0	-	43.6	45.8	-2.2
01:20 AM - 01:25 AM	47.8	49.4	-1.6	7.0	-	43.8	45.9	-2.1
01:25 AM - 01:30 AM	44.5	48.9	-4.4	7.0	-	40.5	46.9	-6.4
01:30 AM - 01:35 AM	47.9	48.9	-1.0	7.0	-	43.9	46.7	-2.8
01:35 AM - 01:40 AM	42.9	54.8	-11.9	7.0	-	38.9	46.9	-8.0
01:40 AM - 01:45 AM	48.0	50.2	-2.2	7.0	-	44.0	47.5	-3.5
01:45 AM - 01:50 AM	42.3	48.6	-6.3	7.0	-	38.3	47.1	-8.8
01:50 AM - 01:55 AM	44.5	49.1	-4.6	7.0	-	40.5	46.4	-5.9
01:55 AM - 02:00 AM	46.4	49.4	-3.0	7.0	-	42.4	46.0	-3.6
02:00 AM - 02:05 AM	42.9	49.1	-6.2	7.0	-	38.9	46.4	-7.5
02:05 AM - 02:10 AM	44.8	47.4	-2.6	7.0	-	40.8	45.3	-4.5
02:10 AM - 02:15 AM	47.6	49.2	-1.6	7.0	-	43.6	45.8	-2.2
02:15 AM - 02:20 AM	41.6	48.0	-6.4	7.0	-	37.6	46.8	-9.2
02:20 AM - 02:25 AM	47.6	48.8	-1.2	7.0	-	43.6	46.3	-2.7
02:25 AM - 02:30 AM	48.7	48.7	0.0	7.0	-	44.7	46.3	-1.6
02:30 AM - 02:35 AM	52.4	48.2	4.2	2.0	-	53.4	46.3	7.1
02:35 AM - 02:40 AM	52.4	47.7	4.7	1.5	-	53.9	46.0	7.9
02:40 AM - 02:45 AM	50.4	50.5	-0.1	7.0	-	46.4	46.0	0.4
02:45 AM - 02:50 AM	52.5	49.7	2.8	3.0	-	52.5	45.5	7.0
02:50 AM - 02:55 AM	51.9	49.4	2.5	3.0	-	51.9	45.6	6.3
02:55 AM - 03:00 AM	50.7	48.7	2.0	4.5	-	49.2	45.4	3.8
03:00 AM - 03:05 AM	50.1	51.8	-1.7	7.0	-	46.1	45.7	0.4
03:05 AM - 03:10 AM	52.4	49.3	3.1	3.0	-	52.4	45.4	7.0
03:10 AM - 03:15 AM	51.4	47.7	3.7	2.0	-	52.4	45.3	7.1
03:15 AM - 03:20 AM	52.8	47.0	5.8	1.5	-	54.3	44.9	9.4
03:20 AM - 03:25 AM	51.5	48.6	2.9	3.0	-	51.5	45.8	5.7
03:25 AM - 03:30 AM	53.9	48.0	5.9	1.5	-	55.4	45.7	9.7
03:30 AM - 03:35 AM	54.7	47.8	6.9	1.0	-	56.7	45.1	11.6
03:35 AM - 03:40 AM	54.9	50.6	4.3	2.0	-	55.9	46.1	9.8
03:40 AM - 03:45 AM	54.2	48.6	5.6	1.5	-	55.7	45.9	9.8
03:45 AM - 03:50 AM	56.0	48.3	7.7	0.5	-	58.5	45.3	13.2
03:50 AM - 03:55 AM	55.5	49.2	6.3	1.5	-	57.0	45.0	12.0
03:55 AM - 04:00 AM	55.3	47.5	7.8	0.5	-	57.8	45.0	12.8
04:00 AM - 04:05 AM	55.2	49.4	5.8	1.5	-	56.7	45.4	11.3
04:05 AM - 04:10 AM	53.8	48.1	5.7	1.5	-	55.3	45.9	9.4
04:10 AM - 04:15 AM	50.5	49.3	1.2	7.0	-	46.5	45.5	1.0
04:15 AM - 04:20 AM	50.7	48.3	2.4	4.5	-	49.2	46.2	3.0

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Approved by

*Kanok Korn Anek*

Kanok Korn Anek  
Senior Manager





## Analysis / Test Report

TESTING

No.0009

Client : Dow Chemical Thailand Ltd.

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

Lot ID: 2227104

Date Received : Mar 14, 2022

Date Reported : Mar 18, 2022

Report Number : 2264713-1

P/O :

Project Name : Environmental Quality Monitoring

Project Location : Map Ta Phut\_PU (PPTL)

Page 3 of 3

Sample No. 2227104-2  
Parameter เสียงรบกวน  
Location ชุมชนตากวน-อ่าวประดู่ (GPS 47P 0735531, 1402769)  
Measurement Date Mar 08 - 09, 2022  
Measurement by Satcha Phetsawaeng  
Sound Level Meter 00233183

### 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		
04:20 AM - 04:25 AM	53.5	48.8	4.7	1.5	-	55.0	45.9	9.1
04:25 AM - 04:30 AM	50.3	50.1	0.2	7.0	-	46.3	46.2	0.1
04:30 AM - 04:35 AM	52.3	48.8	3.5	2.0	-	53.3	45.8	7.5
04:35 AM - 04:40 AM	51.4	48.4	3.0	3.0	-	51.4	45.8	5.6
04:40 AM - 04:45 AM	51.2	49.0	2.2	4.5	-	49.7	46.1	3.6
04:45 AM - 04:50 AM	49.5	49.2	0.3	7.0	-	45.5	45.8	-0.3
04:50 AM - 04:55 AM	52.6	49.3	3.3	3.0	-	52.6	46.1	6.5
04:55 AM - 05:00 AM	50.6	49.1	1.5	4.5	-	49.1	46.1	3.0
05:00 AM - 05:05 AM	50.2	49.2	1.0	7.0	-	46.2	46.7	-0.5
05:05 AM - 05:10 AM	51.6	49.4	2.2	4.5	-	50.1	46.5	3.6
05:10 AM - 05:15 AM	51.1	50.2	0.9	7.0	-	47.1	47.3	-0.2
05:15 AM - 05:20 AM	49.8	49.9	-0.1	7.0	-	45.8	47.2	-1.4
05:20 AM - 05:25 AM	50.7	50.3	0.4	7.0	-	46.7	47.2	-0.5
05:25 AM - 05:30 AM	50.7	51.1	-0.4	7.0	-	46.7	46.7	0.0
05:30 AM - 05:35 AM	49.0	50.2	-1.2	7.0	-	45.0	47.8	-2.8
05:35 AM - 05:40 AM	50.7	50.7	0.0	7.0	-	46.7	48.1	-1.4
05:40 AM - 05:45 AM	50.7	51.8	-1.1	7.0	-	46.7	48.2	-1.5
05:45 AM - 05:50 AM	52.7	51.3	1.4	7.0	-	48.7	47.8	0.9
05:50 AM - 05:55 AM	60.9	52.5	8.4	0.5	-	63.4	48.6	14.8
05:55 AM - 06:00 AM	67.9	55.0	12.9	0.0	-	70.9	52.3	18.6
06:00 AM - 07:00 AM	57.2	54.6	2.6	3.0	54.2	-	50.0	4.2
07:00 AM - 08:00 AM	55.1	56.2	-1.1	7.0	48.1	-	51.2	-3.1
08:00 AM - 09:00 AM	53.5	55.4	-1.9	7.0	46.5	-	49.8	-3.3
09:00 AM - 10:00 AM	52.7	53.6	-0.9	7.0	45.7	-	48.8	-3.1
10:00 AM - 11:00 AM	57.4	54.2	3.2	3.0	54.4	-	48.0	6.4
11:00 AM - 12:00 PM	57.6	55.7	1.9	4.5	53.1	-	47.5	5.6
12:00 PM - 01:00 PM	57.2	53.9	3.3	3.0	54.2	-	47.5	6.7
01:00 PM - 02:00 PM	51.6	54.4	-2.8	7.0	44.6	-	45.9	-1.3
02:00 PM - 03:00 PM	52.9	54.1	-1.2	7.0	45.9	-	46.5	-0.6
03:00 PM - 04:00 PM	56.1	53.6	2.5	3.0	53.1	-	47.1	6.0
04:00 PM - 05:00 PM	54.3	54.5	-0.2	7.0	47.3	-	49.0	-1.7
05:00 PM - 06:00 PM	56.0	55.2	0.8	7.0	49.0	-	50.6	-1.6
ค่ามาตรฐาน								≤ 10

Reference Method : Based on ISO 1996-1 and ISO 1996-2

มาตรฐาน

- ประกาศกระทรวงอุตสาหกรรม เรื่อง กำหนดค่าระดับเสียงการรบกวนและระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548
- ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ เรื่อง ค่าระดับเสียงรบกวน ฉบับที่ 29 พ.ศ. 2550
- ประกาศคณะกรรมการควบคุมมลพิษ เรื่อง วิธีการตรวจวัดระดับเสียงพื้นฐาน ระดับเสียงขณะไม่มีการรบกวน การตรวจวัดและคำนวณระดับเสียงขณะมีการรบกวน การคำนวณค่าระดับการรบกวน และแบบบันทึกการตรวจวัดเสียงรบกวน พ.ศ. 2550 และประกาศกรมโรงงานอุตสาหกรรม เรื่อง วิธีการตรวจวัดระดับเสียงรบกวน ระดับเสียงเฉลี่ย 24 ชั่วโมง และระดับเสียงสูงสุดที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2553  
ระดับเสียงจากแหล่งกำเนิด ทำการตรวจวัด วันที่ 08-09 มีนาคม 2565  
ระดับเสียงพื้นฐานและระดับเสียงขณะไม่มีการรบกวน (Sample No.2179912-1 วันที่ตรวจวัด 23-24 กรกฎาคม 2564)

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

*Kanok Korn Anek*

Kanok Korn Anek  
Senior Manager



## Analysis / Test Report

TESTING

No.0009

**Client :** Dow Chemical Thailand Ltd.

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

**Lot ID: 2227104**

Date Received : Mar 14, 2022

Date Reported : Mar 18, 2022

Report Number : 2264714-1

**P/O :**

**Project Name :** Environmental Quality Monitoring

**Project Location :** Map Ta Phut\_PU (PPTL)

Page 1 of 3

**Sample No.** 2227104-3  
**Parameter** เสียงรบกวน  
**Location** ชุมชนตากวน-อ่าวประดู่ (GPS 47P 0735531, 1402769)  
**Measurement Date** Mar 09 - 10, 2022  
**Measurement by** Satcha Phetsawaeng  
**Sound Level Meter** 00233183

### ระดับเสียง (dB(A))

เวลา	(A)		(B)		(A-B)		(C)		(D)		(E)		(D-E)	
	เสียงจากแหล่งกำเนิด	เสียงขณะไม่มีการรบกวน	ผลต่างระดับเสียง	ตัวปรับค่า	ปรับค่าเสียงจากแหล่งกำเนิดกลางวัน (A-C)	กลางคืน (A-C)+3	เสียงพื้นฐาน	การรบกวน	ปรับค่าเสียงจากแหล่งกำเนิดกลางวัน (A-C)	กลางคืน (A-C)+3	เสียงพื้นฐาน	การรบกวน	ปรับค่าเสียงจากแหล่งกำเนิดกลางวัน (A-C)	กลางคืน (A-C)+3
06:00 PM - 07:00 PM	60.9	56.2	4.7	1.5	59.4	-	50.2	9.2	59.4	-	50.2	9.2	59.4	-
07:00 PM - 08:00 PM	54.5	56.3	-1.8	7.0	47.5	-	51.0	-3.5	47.5	-	51.0	-3.5	47.5	-
08:00 PM - 09:00 PM	54.4	54.9	-0.5	7.0	47.4	-	49.1	-1.7	47.4	-	49.1	-1.7	47.4	-
09:00 PM - 10:00 PM	55.3	51.9	3.4	3.0	52.3	-	47.7	4.6	52.3	-	47.7	4.6	52.3	-
10:00 PM - 10:05 PM	50.4	51.1	-0.7	7.0	-	46.4	47.0	-0.6	-	46.4	47.0	-0.6	-	46.4
10:05 PM - 10:10 PM	55.3	50.2	5.1	1.5	-	56.8	46.8	10.0	-	56.8	46.8	10.0	-	56.8
10:10 PM - 10:15 PM	53.8	51.7	2.1	4.5	-	52.3	46.8	5.5	-	52.3	46.8	5.5	-	52.3
10:15 PM - 10:20 PM	51.2	52.4	-1.2	7.0	-	47.2	47.6	-0.4	-	47.2	47.6	-0.4	-	47.2
10:20 PM - 10:25 PM	49.6	51.8	-2.2	7.0	-	45.6	48.0	-2.4	-	45.6	48.0	-2.4	-	45.6
10:25 PM - 10:30 PM	49.3	51.7	-2.4	7.0	-	45.3	47.6	-2.3	-	45.3	47.6	-2.3	-	45.3
10:30 PM - 10:35 PM	52.3	51.8	0.5	7.0	-	48.3	47.8	0.5	-	48.3	47.8	0.5	-	48.3
10:35 PM - 10:40 PM	51.7	51.3	0.4	7.0	-	47.7	48.4	-0.7	-	47.7	48.4	-0.7	-	47.7
10:40 PM - 10:45 PM	50.8	54.9	-4.1	7.0	-	46.8	48.1	-1.3	-	46.8	48.1	-1.3	-	46.8
10:45 PM - 10:50 PM	49.2	51.5	-2.3	7.0	-	45.2	48.0	-2.8	-	45.2	48.0	-2.8	-	45.2
10:50 PM - 10:55 PM	48.8	51.7	-2.9	7.0	-	44.8	47.6	-2.8	-	44.8	47.6	-2.8	-	44.8
10:55 PM - 11:00 PM	49.4	50.6	-1.2	7.0	-	45.4	47.8	-2.4	-	45.4	47.8	-2.4	-	45.4
11:00 PM - 11:05 PM	50.4	50.5	-0.1	7.0	-	46.4	48.6	-2.2	-	46.4	48.6	-2.2	-	46.4
11:05 PM - 11:10 PM	50.7	49.6	1.1	7.0	-	46.7	47.2	-0.5	-	46.7	47.2	-0.5	-	46.7
11:10 PM - 11:15 PM	49.8	50.2	-0.4	7.0	-	45.8	46.4	-0.6	-	45.8	46.4	-0.6	-	45.8
11:15 PM - 11:20 PM	49.6	48.6	1.0	7.0	-	45.6	46.5	-0.9	-	45.6	46.5	-0.9	-	45.6
11:20 PM - 11:25 PM	47.8	50.7	-2.9	7.0	-	43.8	47.2	-3.4	-	43.8	47.2	-3.4	-	43.8
11:25 PM - 11:30 PM	50.7	53.2	-2.5	7.0	-	46.7	49.0	-2.3	-	46.7	49.0	-2.3	-	46.7
11:30 PM - 11:35 PM	52.6	49.1	3.5	2.0	-	53.6	45.9	7.7	-	53.6	45.9	7.7	-	53.6
11:35 PM - 11:40 PM	51.9	48.5	3.4	3.0	-	51.9	46.0	5.9	-	51.9	46.0	5.9	-	51.9
11:40 PM - 11:45 PM	51.7	50.1	1.6	4.5	-	50.2	46.1	4.1	-	50.2	46.1	4.1	-	50.2
11:45 PM - 11:50 PM	48.7	50.4	-1.7	7.0	-	44.7	46.7	-2.0	-	44.7	46.7	-2.0	-	44.7
11:50 PM - 11:55 PM	50.5	50.1	0.4	7.0	-	46.5	45.4	1.1	-	46.5	45.4	1.1	-	46.5
11:55 PM - 12:00 AM	49.9	51.7	-1.8	7.0	-	45.9	46.1	-0.2	-	45.9	46.1	-0.2	-	45.9
12:00 AM - 12:05 AM	48.6	48.2	0.4	7.0	-	44.6	45.8	-1.2	-	44.6	45.8	-1.2	-	44.6
12:05 AM - 12:10 AM	52.2	49.4	2.8	3.0	-	52.2	46.9	5.3	-	52.2	46.9	5.3	-	52.2
12:10 AM - 12:15 AM	54.0	49.7	4.3	2.0	-	55.0	47.9	7.1	-	55.0	47.9	7.1	-	55.0
12:15 AM - 12:20 AM	60.4	50.8	9.6	0.5	-	62.9	48.3	14.6	-	62.9	48.3	14.6	-	62.9
12:20 AM - 12:25 AM	58.2	50.6	7.6	0.5	-	60.7	47.6	13.1	-	60.7	47.6	13.1	-	60.7
12:25 AM - 12:30 AM	54.5	48.8	5.7	1.5	-	56.0	46.6	9.4	-	56.0	46.6	9.4	-	56.0
12:30 AM - 12:35 AM	49.4	49.8	-0.4	7.0	-	45.4	47.0	-1.6	-	45.4	47.0	-1.6	-	45.4
12:35 AM - 12:40 AM	49.0	52.0	-3.0	7.0	-	45.0	47.5	-2.5	-	45.0	47.5	-2.5	-	45.0
12:40 AM - 12:45 AM	48.5	49.6	-1.1	7.0	-	44.5	46.7	-2.2	-	44.5	46.7	-2.2	-	44.5
12:45 AM - 12:50 AM	48.1	49.6	-1.5	7.0	-	44.1	46.9	-2.8	-	44.1	46.9	-2.8	-	44.1
12:50 AM - 12:55 AM	49.6	49.9	-0.3	7.0	-	45.6	47.2	-1.6	-	45.6	47.2	-1.6	-	45.6
12:55 AM - 01:00 AM	50.3	49.9	0.4	7.0	-	46.3	46.8	-0.5	-	46.3	46.8	-0.5	-	46.3

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Approved by

*Kanok Korn Anek*

Kanok Korn Anek  
Senior Manager





## Analysis / Test Report

TESTING

No.0009

**Client :** Dow Chemical Thailand Ltd.

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

**Lot ID: 2227104**

Date Received : Mar 14, 2022

Date Reported : Mar 18, 2022

Report Number : 2264714-1

**P/O :**

**Project Name :** Environmental Quality Monitoring

**Project Location :** Map Ta Phut\_PU (PPTL)

Page 2 of 3

**Sample No.** 2227104-3  
**Parameter** เสียงรบกวน  
**Location** ชุมชนตากวน-อ่าวประดู่ (GPS 47P 0735531, 1402769)  
**Measurement Date** Mar 09 - 10, 2022  
**Measurement by** Satcha Phetsawaeng  
**Sound Level Meter** 00233183

### 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		
01:00 AM - 01:05 AM	49.8	49.2	0.6	7.0	-	45.8	46.7	-0.9
01:05 AM - 01:10 AM	51.0	48.7	2.3	4.5	-	49.5	46.3	3.2
01:10 AM - 01:15 AM	50.2	48.8	1.4	7.0	-	46.2	46.9	-0.7
01:15 AM - 01:20 AM	46.9	49.0	-2.1	7.0	-	42.9	45.8	-2.9
01:20 AM - 01:25 AM	47.6	49.4	-1.8	7.0	-	43.6	45.9	-2.3
01:25 AM - 01:30 AM	49.1	48.9	0.2	7.0	-	45.1	46.9	-1.8
01:30 AM - 01:35 AM	49.7	48.9	0.8	7.0	-	45.7	46.7	-1.0
01:35 AM - 01:40 AM	47.4	54.8	-7.4	7.0	-	43.4	46.9	-3.5
01:40 AM - 01:45 AM	46.8	50.2	-3.4	7.0	-	42.8	47.5	-4.7
01:45 AM - 01:50 AM	47.8	48.6	-0.8	7.0	-	43.8	47.1	-3.3
01:50 AM - 01:55 AM	51.7	49.1	2.6	3.0	-	51.7	46.4	5.3
01:55 AM - 02:00 AM	48.1	49.4	-1.3	7.0	-	44.1	46.0	-1.9
02:00 AM - 02:05 AM	51.6	49.1	2.5	3.0	-	51.6	46.4	5.2
02:05 AM - 02:10 AM	47.0	47.4	-0.4	7.0	-	43.0	45.3	-2.3
02:10 AM - 02:15 AM	50.3	49.2	1.1	7.0	-	46.3	45.8	0.5
02:15 AM - 02:20 AM	58.0	48.0	10.0	0.5	-	60.5	46.8	13.7
02:20 AM - 02:25 AM	60.8	48.8	12.0	0.5	-	63.3	46.3	17.0
02:25 AM - 02:30 AM	59.2	48.7	10.5	0.5	-	61.7	46.3	15.4
02:30 AM - 02:35 AM	55.1	48.2	6.9	1.0	-	57.1	46.3	10.8
02:35 AM - 02:40 AM	46.3	47.7	-1.4	7.0	-	42.3	46.0	-3.7
02:40 AM - 02:45 AM	48.0	50.5	-2.5	7.0	-	44.0	46.0	-2.0
02:45 AM - 02:50 AM	48.2	49.7	-1.5	7.0	-	44.2	45.5	-1.3
02:50 AM - 02:55 AM	45.2	49.4	-4.2	7.0	-	41.2	45.6	-4.4
02:55 AM - 03:00 AM	44.7	48.7	-4.0	7.0	-	40.7	45.4	-4.7
03:00 AM - 03:05 AM	48.4	51.8	-3.4	7.0	-	44.4	45.7	-1.3
03:05 AM - 03:10 AM	49.6	49.3	0.3	7.0	-	45.6	45.4	0.2
03:10 AM - 03:15 AM	49.8	47.7	2.1	4.5	-	48.3	45.3	3.0
03:15 AM - 03:20 AM	49.1	47.0	2.1	4.5	-	47.6	44.9	2.7
03:20 AM - 03:25 AM	45.8	48.6	-2.8	7.0	-	41.8	45.8	-4.0
03:25 AM - 03:30 AM	50.5	48.0	2.5	3.0	-	50.5	45.7	4.8
03:30 AM - 03:35 AM	52.4	47.8	4.6	1.5	-	53.9	45.1	8.8
03:35 AM - 03:40 AM	48.9	50.6	-1.7	7.0	-	44.9	46.1	-1.2
03:40 AM - 03:45 AM	52.6	48.6	4.0	2.0	-	53.6	45.9	7.7
03:45 AM - 03:50 AM	49.6	48.3	1.3	7.0	-	45.6	45.3	0.3
03:50 AM - 03:55 AM	54.4	49.2	5.2	1.5	-	55.9	45.0	10.9
03:55 AM - 04:00 AM	49.4	47.5	1.9	4.5	-	47.9	45.0	2.9
04:00 AM - 04:05 AM	51.2	49.4	1.8	4.5	-	49.7	45.4	4.3
04:05 AM - 04:10 AM	49.5	48.1	1.4	7.0	-	45.5	45.9	-0.4
04:10 AM - 04:15 AM	50.1	49.3	0.8	7.0	-	46.1	45.5	0.6
04:15 AM - 04:20 AM	48.2	48.3	-0.1	7.0	-	44.2	46.2	-2.0

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Approved by

*Kanok Korn Anek*

Kanokkorn Anek  
Senior Manager





## Analysis / Test Report

TESTING

No.0009

Client : Dow Chemical Thailand Ltd.

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

Lot ID: 2227104

Date Received : Mar 14, 2022

Date Reported : Mar 18, 2022

Report Number : 2264714-1

P/O :

Project Name : Environmental Quality Monitoring

Project Location : Map Ta Phut\_PU (PPTL)

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Sample No. 2227104-3  
Parameter เสียงรบกวน  
Location ชุมชนตากวน-อ่าวประดู่ (GPS 47P 0735531, 1402769)  
Measurement Date Mar 09 - 10, 2022  
Measurement by Satcha Phetsawaeng  
Sound Level Meter 00233183

### 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		
04:20 AM - 04:25 AM	48.6	48.8	-0.2	7.0	-	44.6	45.9	-1.3
04:25 AM - 04:30 AM	48.0	50.1	-2.1	7.0	-	44.0	46.2	-2.2
04:30 AM - 04:35 AM	48.9	48.8	0.1	7.0	-	44.9	45.8	-0.9
04:35 AM - 04:40 AM	47.6	48.4	-0.8	7.0	-	43.6	45.8	-2.2
04:40 AM - 04:45 AM	47.9	49.0	-1.1	7.0	-	43.9	46.1	-2.2
04:45 AM - 04:50 AM	47.6	49.2	-1.6	7.0	-	43.6	45.8	-2.2
04:50 AM - 04:55 AM	51.8	49.3	2.5	3.0	-	51.8	46.1	5.7
04:55 AM - 05:00 AM	49.4	49.1	0.3	7.0	-	45.4	46.1	-0.7
05:00 AM - 05:05 AM	52.4	49.2	3.2	3.0	-	52.4	46.7	5.7
05:05 AM - 05:10 AM	50.8	49.4	1.4	7.0	-	46.8	46.5	0.3
05:10 AM - 05:15 AM	50.0	50.2	-0.2	7.0	-	46.0	47.3	-1.3
05:15 AM - 05:20 AM	49.4	49.9	-0.5	7.0	-	45.4	47.2	-1.8
05:20 AM - 05:25 AM	48.9	50.3	-1.4	7.0	-	44.9	47.2	-2.3
05:25 AM - 05:30 AM	50.2	51.1	-0.9	7.0	-	46.2	46.7	-0.5
05:30 AM - 05:35 AM	50.1	50.2	-0.1	7.0	-	46.1	47.8	-1.7
05:35 AM - 05:40 AM	50.5	50.7	-0.2	7.0	-	46.5	48.1	-1.6
05:40 AM - 05:45 AM	50.7	51.8	-1.1	7.0	-	46.7	48.2	-1.5
05:45 AM - 05:50 AM	52.0	51.3	0.7	7.0	-	48.0	47.8	0.2
05:50 AM - 05:55 AM	50.3	52.5	-2.2	7.0	-	46.3	48.6	-2.3
05:55 AM - 06:00 AM	50.2	55.0	-4.8	7.0	-	46.2	52.3	-6.1
06:00 AM - 07:00 AM	56.8	54.6	2.2	4.5	52.3	-	50.0	2.3
07:00 AM - 08:00 AM	56.2	56.2	0.0	7.0	49.2	-	51.2	-2.0
08:00 AM - 09:00 AM	53.1	55.4	-2.3	7.0	46.1	-	49.8	-3.7
09:00 AM - 10:00 AM	55.0	53.6	1.4	7.0	48.0	-	48.8	-0.8
10:00 AM - 11:00 AM	53.3	54.2	-0.9	7.0	46.3	-	48.0	-1.7
11:00 AM - 12:00 PM	59.1	55.7	3.4	3.0	56.1	-	47.5	8.6
12:00 PM - 01:00 PM	54.0	53.9	0.1	7.0	47.0	-	47.5	-0.5
01:00 PM - 02:00 PM	59.7	54.4	5.3	1.5	58.2	-	45.9	12.3
02:00 PM - 03:00 PM	52.1	54.1	-2.0	7.0	45.1	-	46.5	-1.4
03:00 PM - 04:00 PM	51.7	53.6	-1.9	7.0	44.7	-	47.1	-2.4
04:00 PM - 05:00 PM	53.6	54.5	-0.9	7.0	46.6	-	49.0	-2.4
05:00 PM - 06:00 PM	54.6	55.2	-0.6	7.0	47.6	-	50.6	-3.0
ค่ามาตรฐาน								≤ 10

Reference Method : Based on ISO 1996-1 and ISO 1996-2

มาตรฐาน

- ประกาศกระทรวงอุตสาหกรรม เรื่อง กำหนดค่าระดับเสียงการรบกวนและระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548
  - ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ เรื่อง ค่าระดับเสียงรบกวน ฉบับที่ 29 พ.ศ. 2550
  - ประกาศคณะกรรมการควบคุมมลพิษ เรื่อง วิธีการตรวจวัดระดับเสียงพื้นฐาน ระดับเสียงขณะไม่มีการรบกวน การตรวจวัดและคำนวณระดับเสียงขณะมีการรบกวน การคำนวณค่าระดับการรบกวน และแบบบันทึกการตรวจวัดเสียงรบกวน พ.ศ. 2550 และประกาศกรมโรงงานอุตสาหกรรม เรื่อง วิธีการตรวจวัดระดับเสียงรบกวน ระดับเสียงเฉลี่ย 24 ชั่วโมง และระดับเสียงสูงสุดที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2553
- ระดับเสียงจากแหล่งกำเนิด ทำการตรวจวัด วันที่ 09-10 มีนาคม 2565  
ระดับเสียงพื้นฐานและระดับเสียงขณะไม่มีการรบกวน (Sample No.2179912-1 วันที่ตรวจวัด 23-24 กรกฎาคม 2564)

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Approved by

*Kanok Korn Anek*

Kanok Korn Anek  
Senior Manager



## Analysis / Test Report

TESTING  
No.0009

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

**Lot ID: 2179912**  
Date Received : Jul 28, 2021  
Date Reported : Jun 24, 2022  
Report No. : 2036565-1Rev.No.1

**P/O** : 4511038307

**Project Name** : Environmental Quality Monitoring

**Project Location** : Map Ta Phut\_PU (PPTL)

Page 1 of 3

**Sample No.** 2179912-1  
**Parameter** Noise  
**Location** ชุมชนตากวน-อ่าวประดู่ (GPS 47P 0735531, 1402769) (Shut down)  
**Measurement Date** Jul 23 - 24, 2021  
**Measurement by** Siriwit Ruangsom  
**Sound Level Meter** 01173610

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
10:00 AM - 11:00 AM	54.2	79.5	48.0
11:00 AM - 12:00 PM	55.7	82.3	47.5
12:00 PM - 01:00 PM	53.9	71.5	47.5
01:00 PM - 02:00 PM	54.4	75.3	45.9
02:00 PM - 03:00 PM	54.1	78.1	46.5
03:00 PM - 04:00 PM	53.6	72.7	47.1
04:00 PM - 05:00 PM	54.5	71.1	49.0
05:00 PM - 06:00 PM	55.2	77.0	50.6
06:00 PM - 07:00 PM	56.2	74.4	50.2
07:00 PM - 08:00 PM	56.3	72.5	51.0
08:00 PM - 09:00 PM	54.9	75.8	49.1
09:00 PM - 10:00 PM	51.9	67.6	47.7
10:00 PM - 10:05 PM	51.1	64.1	47.0
10:05 PM - 10:10 PM	50.2	60.8	46.8
10:10 PM - 10:15 PM	51.7	68.5	46.8
10:15 PM - 10:20 PM	52.4	67.6	47.6
10:20 PM - 10:25 PM	51.8	65.0	48.0
10:25 PM - 10:30 PM	51.7	67.6	47.6
10:30 PM - 10:35 PM	51.8	66.5	47.8
10:35 PM - 10:40 PM	51.3	58.5	48.4
10:40 PM - 10:45 PM	54.9	76.7	48.1
10:45 PM - 10:50 PM	51.5	63.6	48.0
10:50 PM - 10:55 PM	51.7	67.7	47.6
10:55 PM - 11:00 PM	50.6	63.1	47.8
11:00 PM - 11:05 PM	50.5	59.7	48.6
11:05 PM - 11:10 PM	49.6	55.2	47.2
11:10 PM - 11:15 PM	50.2	67.0	46.4
11:15 PM - 11:20 PM	48.6	57.9	46.5
11:20 PM - 11:25 PM	50.7	59.3	47.2
11:25 PM - 11:30 PM	53.2	69.6	49.0
11:30 PM - 11:35 PM	49.1	57.0	45.9
11:35 PM - 11:40 PM	48.5	56.8	46.0
11:40 PM - 11:45 PM	50.1	61.7	46.1
11:45 PM - 11:50 PM	50.4	60.5	46.7
11:50 PM - 11:55 PM	50.1	61.7	45.4
11:55 PM - 12:00 AM	51.7	68.1	46.1
12:00 AM - 12:05 AM	48.2	58.1	45.8
12:05 AM - 12:10 AM	49.4	64.2	46.9
12:10 AM - 12:15 AM	49.7	56.7	47.9
12:15 AM - 12:20 AM	50.8	61.9	48.3

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Approved by

*Kanok Korn Anek*

Kanokkorn Anek  
Senior Manager





## Analysis / Test Report

TESTING  
No.0009

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

**Lot ID: 2179912**  
Date Received : Jul 28, 2021  
Date Reported : Jun 24, 2022  
Report No. : 2036565-1Rev.No.1

**P/O** : 4511038307

**Project Name** : Environmental Quality Monitoring

**Project Location** : Map Ta Phut\_PU (PPTL)

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**Sample No.** 2179912-1  
**Parameter** Noise  
**Location** ชุมชนตากวน-อ่าวประดู่ (GPS 47P 0735531, 1402769) (Shut down)  
**Measurement Date** Jul 23 - 24, 2021  
**Measurement by** Siriwit Ruangsom  
**Sound Level Meter** 01173610

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
12:20 AM - 12:25 AM	50.6	62.7	47.6
12:25 AM - 12:30 AM	48.8	56.5	46.6
12:30 AM - 12:35 AM	49.8	59.0	47.0
12:35 AM - 12:40 AM	52.0	64.5	47.5
12:40 AM - 12:45 AM	49.6	59.6	46.7
12:45 AM - 12:50 AM	49.6	58.7	46.9
12:50 AM - 12:55 AM	49.9	60.9	47.2
12:55 AM - 01:00 AM	49.9	59.9	46.8
01:00 AM - 01:05 AM	49.2	57.5	46.7
01:05 AM - 01:10 AM	48.7	58.6	46.3
01:10 AM - 01:15 AM	48.8	58.2	46.9
01:15 AM - 01:20 AM	49.0	59.2	45.8
01:20 AM - 01:25 AM	49.4	64.5	45.9
01:25 AM - 01:30 AM	48.9	56.5	46.9
01:30 AM - 01:35 AM	48.9	57.2	46.7
01:35 AM - 01:40 AM	54.8	73.2	46.9
01:40 AM - 01:45 AM	50.2	61.9	47.5
01:45 AM - 01:50 AM	48.6	55.6	47.1
01:50 AM - 01:55 AM	49.1	58.3	46.4
01:55 AM - 02:00 AM	49.4	66.6	46.0
02:00 AM - 02:05 AM	49.1	63.5	46.4
02:05 AM - 02:10 AM	47.4	57.2	45.3
02:10 AM - 02:15 AM	49.2	69.0	45.8
02:15 AM - 02:20 AM	48.0	52.9	46.8
02:20 AM - 02:25 AM	48.8	60.0	46.3
02:25 AM - 02:30 AM	48.7	59.8	46.3
02:30 AM - 02:35 AM	48.2	59.5	46.3
02:35 AM - 02:40 AM	47.7	52.0	46.0
02:40 AM - 02:45 AM	50.5	68.4	46.0
02:45 AM - 02:50 AM	49.7	69.0	45.5
02:50 AM - 02:55 AM	49.4	64.3	45.6
02:55 AM - 03:00 AM	48.7	62.8	45.4
03:00 AM - 03:05 AM	51.8	65.3	45.7
03:05 AM - 03:10 AM	49.3	68.9	45.4
03:10 AM - 03:15 AM	47.7	56.7	45.3
03:15 AM - 03:20 AM	47.0	55.1	44.9
03:20 AM - 03:25 AM	48.6	60.0	45.8
03:25 AM - 03:30 AM	48.0	55.9	45.7
03:30 AM - 03:35 AM	47.8	58.6	45.1
03:35 AM - 03:40 AM	50.6	68.4	46.1

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Approved by

*Kanokkorn Anek*

Kanokkorn Anek  
Senior Manager





## Analysis / Test Report

TESTING  
No.0009

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

**Lot ID: 2179912**  
Date Received : Jul 28, 2021  
Date Reported : Jun 24, 2022  
Report No. : 2036565-1Rev.No.1

**P/O** : 4511038307

**Project Name** : Environmental Quality Monitoring

**Project Location** : Map Ta Phut\_PU (PPTL)

Page 3 of 3

**Sample No.** 2179912-1  
**Parameter** Noise  
**Location** ชุมชนตากวน-อ่าวประดู่ (GPS 47P 0735531, 1402769) (Shut down)  
**Measurement Date** Jul 23 - 24, 2021  
**Measurement by** Siriwit Ruangsom  
**Sound Level Meter** 01173610

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
03:40 AM - 03:45 AM	48.6	57.2	45.9
03:45 AM - 03:50 AM	48.3	61.9	45.3
03:50 AM - 03:55 AM	49.2	64.2	45.0
03:55 AM - 04:00 AM	47.5	55.8	45.0
04:00 AM - 04:05 AM	49.4	61.8	45.4
04:05 AM - 04:10 AM	48.1	58.7	45.9
04:10 AM - 04:15 AM	49.3	64.3	45.5
04:15 AM - 04:20 AM	48.3	54.8	46.2
04:20 AM - 04:25 AM	48.8	57.0	45.9
04:25 AM - 04:30 AM	50.1	62.7	46.2
04:30 AM - 04:35 AM	48.8	62.7	45.8
04:35 AM - 04:40 AM	48.4	66.4	45.8
04:40 AM - 04:45 AM	49.0	60.3	46.1
04:45 AM - 04:50 AM	49.2	57.9	45.8
04:50 AM - 04:55 AM	49.3	60.5	46.1
04:55 AM - 05:00 AM	49.1	59.3	46.1
05:00 AM - 05:05 AM	49.2	58.5	46.7
05:05 AM - 05:10 AM	49.4	58.5	46.5
05:10 AM - 05:15 AM	50.2	57.7	47.3
05:15 AM - 05:20 AM	49.9	56.0	47.2
05:20 AM - 05:25 AM	50.3	61.6	47.2
05:25 AM - 05:30 AM	51.1	66.4	46.7
05:30 AM - 05:35 AM	50.2	55.8	47.8
05:35 AM - 05:40 AM	50.7	58.0	48.1
05:40 AM - 05:45 AM	51.8	62.6	48.2
05:45 AM - 05:50 AM	51.3	61.2	47.8
05:50 AM - 05:55 AM	52.5	64.2	48.6
05:55 AM - 06:00 AM	55.0	66.6	52.3
06:00 AM - 07:00 AM	54.6	72.0	50.0
07:00 AM - 08:00 AM	56.2	74.5	51.2
08:00 AM - 09:00 AM	55.4	77.8	49.8
09:00 AM - 10:00 AM	53.6	71.7	48.8

Reference Method : Based on ISO 1996-1 and ISO 1996-2

Note : This Analysis test report is reissued to supersede report No. 2036565-1, Date Reported : Aug 03, 2021 due to revise sample information.

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Kanokkorn Anek  
Senior Manager