

ภาคผนวก ค

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ใบรับรองผลการตรวจวัดคุณภาพสิ่งแวดล้อม

## ภาคผนวก ค-1

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ผลการตรวจวัดสารโพรพิลีนออกไซด์ บริเวณพื้นที่ถังปฏิกิริยา



## Analysis / Test Report

Client : Dow Chemical Thailand Ltd.  
10 Moo 2, Asia Industrial Estate, Tambol Banchang, Amphur Banchang, Rayong  
Thailand 21130  
P/O : 4515619659  
Project Name : Environmental Quality Monitoring  
Project Location : AIE\_PG Plant

Lot ID: 2472592  
Date Received : Jul 09, 2024  
Date Reported : Jul 13, 2024  
Report Number : 3034758-1

Page 1 of 1

Sample Number 2472592-1  
Sampled Date Jul 09, 2024  
Sample Description Air Quality  
Location บริเวณพื้นที่ถังปฏิกิริยา  
Date Analysis Commenced Jul 11, 2024  
Condition of Sample Drawn into one sorbent tube, refrigerated  
Barometric Pressure 758 mmHg  
Atmospheric Temperature 30.0 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Propylene Oxide	10:00 AM - 12:00 PM	ppm	-	0.10	<0.10	100	NIOSH (1994), 1612	MOL	Bangkok

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

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

Approved by

*Orawan R.*

Orawan Rakyong  
Scientist (3)

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

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## Analysis / Test Report

Client : Dow Chemical Thailand Ltd.  
10 Moo 2, Asia Industrial Estate, Tambol Banchang, Amphur Banchang, Rayong  
Thailand 21130  
P/O : 4515619659  
Project Name : Environmental Quality Monitoring  
Project Location : AIE\_PG Plant

Lot ID: 2485447  
Date Received : Aug 09, 2024  
Date Reported : Aug 16, 2024  
Report Number : 3065408-1

Page 1 of 1

Sample Number 2485447-1  
Sampled Date Aug 08, 2024  
Sample Description Air Quality  
Location บริเวณพื้นที่ถังปฏิกิริยา  
Date Analysis Commenced Aug 10, 2024  
Condition of Sample Drawn into one sorbent tube, refrigerated  
Barometric Pressure 755 mmHg  
Atmospheric Temperature 32.0 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Propylene Oxide	09:45 AM - 11:45 AM	ppm	-	0.10	<0.10	100	NIOSH (1994), 1612	MOL	Bangkok

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

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

Approved by

*Saranya C.*

Saranya Chalermthamrong  
Scientist (4)

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## Analysis / Test Report

Client : Dow Chemical Thailand Ltd.

10 Moo 2, Asia Industrial Estate, Tambol Banchang, Amphur Banchang, Rayong  
Thailand 21130

P/O : 4515619659

Project Name : Environmental Quality Monitoring

Project Location : AIE\_PG Plant

Lot ID: 2496072

Date Received : Sep 13, 2024

Date Reported : Sep 20, 2024

Report Number : 3088442-1

Page 1 of 1

Sample Number 2496072-1  
Sampled Date Sep 13, 2024  
Sample Description Air Quality  
Location บริเวณพื้นที่ถังเก็บก๊าซ  
Date Analysis Commenced Sep 14, 2024  
Condition of Sample Drawn into one sorbent tube, refrigerated  
Barometric Pressure 753 mmHg  
Atmospheric Temperature 32.8 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Propylene Oxide	10:00 AM - 12:00 PM	ppm	-	0.10	<0.10	100	NIOSH (1994), 1612	MOL	Bangkok

### Guideline :

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

Sampled By : Anuwet Tema

### Remark :

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

Approved by

*Orawan R.*

Orawan Rakyong  
Scientist (3)

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## Analysis / Test Report

Client : Dow Chemical Thailand Ltd.

10 Moo 2, Asia Industrial Estate, Tambol Banchang, Amphur Banchang, Rayong  
Thailand 21130

P/O : 4515619659

Project Name : Environmental Quality Monitoring

Project Location : AIE\_PG Plant

Lot ID: 24107073

Date Received : Oct 07, 2024

Date Reported : Oct 11, 2024

Report Number : 3112939-1

Page 1 of 1

Sample Number 24107073-1  
Sampled Date Oct 07, 2024  
Sample Description Air Quality  
Location บริเวณพื้นที่ถังเก็บก๊าซ  
Date Analysis Commenced Oct 08, 2024  
Condition of Sample Drawn into one sorbent tube, refrigerated  
Barometric Pressure 758 mmHg  
Atmospheric Temperature 33.0 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Propylene Oxide	09:40 AM - 11:40 AM	ppm	-	0.10	<0.10	100	NIOSH (1994), 1612	MOL	Bangkok

### Guideline :

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

Sampled By : Saksit Phalsanphisut

### Remark :

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

Approved by

*Orawan R.*

Orawan Rakyong  
Scientist (3)

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## Analysis / Test Report

**Client :** Dow Chemical Thailand Ltd.  
10 Moo 2, Asia Industrial Estate, Tambol Banchang, Amphur Banchang, Rayong  
Thailand 21130  
**P/O :** 4515619659  
**Project Name :** Environmental Quality Monitoring  
**Project Location :** AIE\_PG Plant

**Lot ID: 24122605**  
**Date Received :** Nov 06, 2024  
**Date Reported :** Nov 13, 2024  
**Report Number :** 3147715-1

Page 1 of 1

**Sample Number** 24122605-1  
**Sampled Date** Nov 05, 2024  
**Sample Description** Air Quality  
**Location** บริเวณพื้นที่ตั้งโรงงาน  
**Date Analysis Commenced** Nov 08, 2024  
**Condition of Sample** Drawn into one sorbent tube, refrigerated  
**Barometric Pressure** 759 mmHg  
**Atmospheric Temperature** 28.8 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Propylene Oxide	10:00 AM - 12:00 PM	ppm	-	0.10	<0.10	100	NIOSH (1994), 1612	MOL	Bangkok

### Guideline :

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

**Sampled By :** Anurak Tongkhajonsakda

### Remark :

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

Approved by

*Orawan R.*

Orawan Rakyong  
Scientist (3)

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## Analysis / Test Report

**Client :** Dow Chemical Thailand Ltd.  
10 Moo 2, Asia Industrial Estate, Tambol Banchang, Amphur Banchang, Rayong  
Thailand 21130  
**P/O :** 4515619659  
**Project Name :** Environmental Quality Monitoring  
**Project Location :** AIE\_PG Plant

**Lot ID: 24133830**  
**Date Received :** Dec 03, 2024  
**Date Reported :** Dec 11, 2024  
**Report Number :** 3176108-1

Page 1 of 1

**Sample Number** 24133830-1  
**Sampled Date** Dec 03, 2024  
**Sample Description** Air Quality  
**Location** บริเวณพื้นที่ตั้งโรงงาน  
**Date Analysis Commenced** Dec 04, 2024  
**Condition of Sample** Drawn into one sorbent tube, refrigerated  
**Barometric Pressure** 756 mmHg  
**Atmospheric Temperature** 30.2 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Propylene Oxide	09:30 AM - 11:30 AM	ppm	-	0.10	<0.10	100	NIOSH (1994), 1612	MOL	Bangkok

### Guideline :

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

**Sampled By :** Tinnakorn Kulchart

### Remark :

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

Approved by

*Orawan R.*

Orawan Rakyong  
Scientist (3)

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## ภาคผนวก ค-2

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ผลการตรวจวัดระดับเสียงโดยทั่วไปบริเวณชุมชน  
ที่อยู่ใกล้เคียงพื้นที่โครงการ



## Analysis / Test Report



TESTING  
No.0042

Client : Dow Chemical Thailand Ltd.,

10 Moo 2, Asia Industrial Estate, Tambol Banchang, Amphur Banchang, Rayong Thailand 21130

P/O : 4515619659

Project Name : Environmental Quality Monitoring

Project Location : AIE\_PG Plant

Lot ID: 2496076

Date Received : Sep 16, 2024

Date Reported : Sep 19, 2024

Report Number: 3115338-1

Page 1 of 1

Sample Number 2496076-1  
Parameter Noise (Leq 24 hrs.)  
Location กลุ่มบ้านประทุมมิตร (ที่อยู่ใกล้พื้นที่โครงการมากที่สุด) (GPS 47P 0726338, 1405748)  
Measurement Date Sep 05 - Sep 06, 2024  
Measurement by Santi Chaichana  
Sound Level meter Serial No. 296516

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
11:00 AM - 12:00 PM	52.9	79.2	43.6
12:00 PM - 01:00 PM	49.3	71.6	42.2
01:00 PM - 02:00 PM	51.4	78.1	43.0
02:00 PM - 03:00 PM	51.7	73.3	44.5
03:00 PM - 04:00 PM	51.8	72.9	43.3
04:00 PM - 05:00 PM	52.6	74.9	43.7
05:00 PM - 06:00 PM	52.3	74.7	44.6
06:00 PM - 07:00 PM	55.7	88.6	47.0
07:00 PM - 08:00 PM	49.5	72.4	46.5
08:00 PM - 09:00 PM	47.7	67.9	45.1
09:00 PM - 10:00 PM	46.6	67.8	43.6
10:00 PM - 11:00 PM	59.2	93.3	43.2
11:00 PM - 12:00 AM	44.3	63.8	42.1
12:00 AM - 01:00 AM	44.5	69.8	41.7
01:00 AM - 02:00 AM	49.2	77.4	42.6
02:00 AM - 03:00 AM	47.4	76.8	42.2
03:00 AM - 04:00 AM	47.4	70.8	41.9
04:00 AM - 05:00 AM	50.2	71.7	43.3
05:00 AM - 06:00 AM	56.9	83.0	46.5
06:00 AM - 07:00 AM	57.5	82.5	47.2
07:00 AM - 08:00 AM	51.7	76.7	43.0
08:00 AM - 09:00 AM	48.0	68.7	41.9
09:00 AM - 10:00 AM	50.0	78.3	42.9
10:00 AM - 11:00 AM	52.5	78.6	43.7

Leq Average 24 hrs. (dB(A))

52.6

Lmax (dB(A))

93.3

L90 (dB(A))

43.3

Ldn (dB(A))

60.1

Standard (dB(A))

70

115

Reference Method : ISO1996-1 and 1996-2

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

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

Technical Management

Chontichak

Chonticha Subongkoch  
Scientist (3)

Approved by

Supt S

Supot Salamteh  
Section Head

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## Analysis / Test Report



TESTING  
No.0042

Client : Dow Chemical Thailand Ltd.,

10 Moo 2, Asia Industrial Estate, Tambol Banchang, Amphur Banchang, Rayong Thailand 21130

P/O : 4515619659

Project Name : Environmental Quality Monitoring

Project Location : AIE\_PG Plant

Lot ID: 2496076

Date Received : Sep 16, 2024

Date Reported : Sep 19, 2024

Report Number: 3115339-1

Page 1 of 1

Sample Number 2496076-2  
Parameter Noise (Leq 24 hrs.)  
Location กลุ่มบ้านประทุมมิตร (ที่อยู่ใกล้พื้นที่โครงการมากที่สุด) (GPS 47P 0726338, 1405748)  
Measurement Date Sep 06 - Sep 07, 2024  
Measurement by Santi Chaichana  
Sound Level meter Serial No. 296516

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
11:00 AM - 12:00 PM	51.0	75.6	42.8
12:00 PM - 01:00 PM	51.4	74.0	43.9
01:00 PM - 02:00 PM	49.2	70.2	42.1
02:00 PM - 03:00 PM	52.9	77.4	43.0
03:00 PM - 04:00 PM	52.3	81.8	44.0
04:00 PM - 05:00 PM	55.9	84.2	44.7
05:00 PM - 06:00 PM	52.6	72.7	45.2
06:00 PM - 07:00 PM	51.3	71.6	46.7
07:00 PM - 08:00 PM	49.0	66.7	46.3
08:00 PM - 09:00 PM	49.3	72.2	44.2
09:00 PM - 10:00 PM	47.3	73.0	43.3
10:00 PM - 11:00 PM	44.8	58.5	43.0
11:00 PM - 12:00 AM	46.2	66.1	43.1
12:00 AM - 01:00 AM	45.5	62.4	42.4
01:00 AM - 02:00 AM	45.0	67.2	42.6
02:00 AM - 03:00 AM	44.8	65.9	42.3
03:00 AM - 04:00 AM	46.2	63.7	43.1
04:00 AM - 05:00 AM	54.7	84.3	44.2
05:00 AM - 06:00 AM	59.7	89.5	46.4
06:00 AM - 07:00 AM	56.2	80.1	44.6
07:00 AM - 08:00 AM	50.1	74.6	42.6
08:00 AM - 09:00 AM	51.3	80.2	43.3
09:00 AM - 10:00 AM	51.0	73.9	44.6
10:00 AM - 11:00 AM	52.4	77.0	45.1

Leq Average 24 hrs. (dB(A))

52.3

Lmax (dB(A))

89.5

L90 (dB(A))

43.3

Ldn (dB(A))

59.4

Standard (dB(A))

70

115

Reference Method : ISO1996-1 and 1996-2

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

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

Technical Management

Chontichak

Chonticha Subongkoch  
Scientist (3)

Approved by

Supt S

Supot Salamteh  
Section Head

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## Analysis / Test Report



TESTING  
No.0042

Client : Dow Chemical Thailand Ltd.

10 Moo 2, Asia Industrial Estate, Tambol Banchang, Amphur Banchang, Rayong Thailand 21130

P/O : 4515619659

Project Name : Environmental Quality Monitoring

Project Location : AIE\_PG Plant

Lot ID: 2496076

Date Received : Sep 16, 2024

Date Reported : Sep 19, 2024

Report Number: 3115340-1

Page 1 of 1

Sample Number 2496076-3  
Parameter Noise (Leq 24 hrs.)  
Location กลุ่มงานประมงมิตร (ที่อยู่ใกล้พื้นที่โครงการมากที่สุด) (GPS 47P 0726338, 1405748)  
Measurement Date Sep 07 - Sep 08, 2024  
Measurement by Santi Chalchana  
Sound Level meter Serial No. 296516

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
11:00 AM - 12:00 PM	50.7	73.6	44.8
12:00 PM - 01:00 PM	51.8	70.8	46.5
01:00 PM - 02:00 PM	54.1	80.7	47.2
02:00 PM - 03:00 PM	52.1	75.2	44.7
03:00 PM - 04:00 PM	51.8	74.7	44.0
04:00 PM - 05:00 PM	53.3	75.3	44.6
05:00 PM - 06:00 PM	52.1	71.3	45.7
06:00 PM - 07:00 PM	52.7	76.5	47.7
07:00 PM - 08:00 PM	49.8	69.7	47.3
08:00 PM - 09:00 PM	49.0	63.1	46.7
09:00 PM - 10:00 PM	48.3	68.9	46.2
10:00 PM - 11:00 PM	46.5	63.0	43.5
11:00 PM - 12:00 AM	46.8	71.7	43.5
12:00 AM - 01:00 AM	45.6	69.3	42.7
01:00 AM - 02:00 AM	45.3	68.8	42.6
02:00 AM - 03:00 AM	45.3	65.2	41.6
03:00 AM - 04:00 AM	46.4	65.1	42.0
04:00 AM - 05:00 AM	50.7	77.5	43.6
05:00 AM - 06:00 AM	55.7	80.7	45.9
06:00 AM - 07:00 AM	53.2	77.9	44.6
07:00 AM - 08:00 AM	51.1	82.4	43.6
08:00 AM - 09:00 AM	49.3	76.4	43.8
09:00 AM - 10:00 AM	48.3	70.4	44.1
10:00 AM - 11:00 AM	50.5	78.5	44.5

Leq Average 24 hrs. (dB(A)) 50.9  
Lmax (dB(A)) 82.4  
L90 (dB(A)) 44.5  
Ldn (dB(A)) 56.8

Standard (dB(A)) 70 115

Reference Method : ISO1996-1 and 1996-2

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

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

Technical Management

Chontichak  
Chonticha Subongkoch  
Scientist (3)

Approved by

Supot Salamteh  
Section Head

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## Analysis / Test Report



TESTING  
No.0042

Client : Dow Chemical Thailand Ltd.

10 Moo 2, Asia Industrial Estate, Tambol Banchang, Amphur Banchang, Rayong Thailand 21130

P/O : 4515619659

Project Name : Environmental Quality Monitoring

Project Location : AIE\_PG Plant

Lot ID: 2496076

Date Received : Sep 16, 2024

Date Reported : Sep 19, 2024

Report Number: 3115341-1

Page 1 of 1

Sample Number 2496076-4  
Parameter Noise (Leq 24 hrs.)  
Location กลุ่มงานประมงมิตร (ที่อยู่ใกล้พื้นที่โครงการมากที่สุด) (GPS 47P 0726338, 1405748)  
Measurement Date Sep 08 - Sep 09, 2024  
Measurement by Santi Chalchana  
Sound Level meter Serial No. 296516

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
11:00 AM - 12:00 PM	49.6	74.2	42.7
12:00 PM - 01:00 PM	55.9	77.8	42.7
01:00 PM - 02:00 PM	51.3	78.8	44.9
02:00 PM - 03:00 PM	48.7	69.7	44.3
03:00 PM - 04:00 PM	53.9	75.1	44.6
04:00 PM - 05:00 PM	55.9	75.0	45.0
05:00 PM - 06:00 PM	50.7	68.2	45.7
06:00 PM - 07:00 PM	50.9	71.4	46.9
07:00 PM - 08:00 PM	49.8	72.9	45.8
08:00 PM - 09:00 PM	49.5	77.8	44.5
09:00 PM - 10:00 PM	48.0	67.3	44.9
10:00 PM - 11:00 PM	49.2	66.3	44.2
11:00 PM - 12:00 AM	48.0	68.3	44.1
12:00 AM - 01:00 AM	45.8	58.0	43.6
01:00 AM - 02:00 AM	44.8	52.3	43.2
02:00 AM - 03:00 AM	45.1	57.6	42.7
03:00 AM - 04:00 AM	47.7	65.8	43.1
04:00 AM - 05:00 AM	51.6	73.1	45.4
05:00 AM - 06:00 AM	57.4	83.3	47.9
06:00 AM - 07:00 AM	59.2	88.8	48.2
07:00 AM - 08:00 AM	50.6	67.6	44.2
08:00 AM - 09:00 AM	50.0	74.4	43.1
09:00 AM - 10:00 AM	48.6	68.9	44.0
10:00 AM - 11:00 AM	52.3	70.2	45.6

Leq Average 24 hrs. (dB(A)) 52.3  
Lmax (dB(A)) 88.8  
L90 (dB(A)) 44.3  
Ldn (dB(A)) 59.3

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

Chontichak  
Chonticha Subongkoch  
Scientist (3)

Approved by

Supot Salamteh  
Section Head

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## Analysis / Test Report



TESTING  
No.0042

Client : Dow Chemical Thailand Ltd.

10 Moo 2, Asia Industrial Estate, Tambol Banchang, Amphur Banchang, Rayong Thailand 21130

P/O : 4515619659

Project Name : Environmental Quality Monitoring

Project Location : AIE\_PG Plant

Lot ID: 2496076

Date Received : Sep 16, 2024

Date Reported : Sep 19, 2024

Report Number: 3115342-1

Page 1 of 1

Sample Number 2496076-5  
Parameter Noise (Leq 24 hrs.)  
Location กลุ่มบ้านประทุมมิตร (ที่อยู่ใกล้พื้นที่โครงการมากที่สุด) (GPS 47P 0726338, 1405748)  
Measurement Date Sep 09 - Sep 10, 2024  
Measurement by Santi Chaichana  
Sound Level meter Serial No. 296516

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
11:00 AM - 12:00 PM	52.0	75.4	44.6
12:00 PM - 01:00 PM	50.9	69.7	44.4
01:00 PM - 02:00 PM	49.1	73.7	43.3
02:00 PM - 03:00 PM	50.4	69.4	43.6
03:00 PM - 04:00 PM	51.8	74.2	43.6
04:00 PM - 05:00 PM	55.7	80.4	44.7
05:00 PM - 06:00 PM	52.0	75.6	44.1
06:00 PM - 07:00 PM	52.3	77.1	47.4
07:00 PM - 08:00 PM	50.6	74.0	47.0
08:00 PM - 09:00 PM	49.1	73.1	46.1
09:00 PM - 10:00 PM	48.4	68.0	46.1
10:00 PM - 11:00 PM	45.8	68.9	43.7
11:00 PM - 12:00 AM	44.7	57.5	43.2
12:00 AM - 01:00 AM	52.2	85.4	42.2
01:00 AM - 02:00 AM	44.2	58.7	42.5
02:00 AM - 03:00 AM	44.3	53.3	43.1
03:00 AM - 04:00 AM	46.5	65.9	42.9
04:00 AM - 05:00 AM	47.6	65.7	43.1
05:00 AM - 06:00 AM	58.9	82.1	47.3
06:00 AM - 07:00 AM	57.3	85.8	48.3
07:00 AM - 08:00 AM	57.8	83.5	44.2
08:00 AM - 09:00 AM	54.1	87.3	42.3
09:00 AM - 10:00 AM	49.8	72.0	42.8
10:00 AM - 11:00 AM	49.7	70.5	43.6

Leq Average 24 hrs. (dB(A))

52.6

Lmax (dB(A))

87.3

L90 (dB(A))

43.6

Ldn (dB(A))

59.1

Standard (dB(A))

70

115

Reference Method : ISO1996-1 and 1996-2

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

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

Technical Management

Chontichak

Chonticha Subongkoch  
Scientist (3)

Approved by

Supot S

Supot Salamteh  
Section Head

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## Analysis / Test Report



TESTING  
No.0042

Client : Dow Chemical Thailand Ltd.

10 Moo 2, Asia Industrial Estate, Tambol Banchang, Amphur Banchang, Rayong Thailand 21130

P/O : 4515619659

Project Name : Environmental Quality Monitoring

Project Location : AIE\_PG Plant

Lot ID: 2496076

Date Received : Sep 16, 2024

Date Reported : Sep 19, 2024

Report Number: 3115343-1

Page 1 of 1

Sample Number 2496076-6  
Parameter Noise (Leq 24 hrs.)  
Location กลุ่มบ้านประทุมมิตร (ที่อยู่ใกล้พื้นที่โครงการมากที่สุด) (GPS 47P 0726338, 1405748)  
Measurement Date Sep 10 - Sep 11, 2024  
Measurement by Santi Chaichana  
Sound Level meter Serial No. 296516

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
11:00 AM - 12:00 PM	52.9	75.0	43.6
12:00 PM - 01:00 PM	49.6	72.3	42.4
01:00 PM - 02:00 PM	47.2	67.9	42.2
02:00 PM - 03:00 PM	50.1	68.7	44.6
03:00 PM - 04:00 PM	51.6	71.4	44.6
04:00 PM - 05:00 PM	55.2	82.4	45.9
05:00 PM - 06:00 PM	53.2	78.5	45.9
06:00 PM - 07:00 PM	54.1	73.7	49.8
07:00 PM - 08:00 PM	50.8	72.7	46.5
08:00 PM - 09:00 PM	52.0	80.5	43.2
09:00 PM - 10:00 PM	49.6	72.3	43.5
10:00 PM - 11:00 PM	46.4	67.2	43.9
11:00 PM - 12:00 AM	45.7	59.2	43.3
12:00 AM - 01:00 AM	48.5	66.2	44.2
01:00 AM - 02:00 AM	46.9	67.9	43.3
02:00 AM - 03:00 AM	51.2	58.9	44.1
03:00 AM - 04:00 AM	56.7	64.7	47.8
04:00 AM - 05:00 AM	57.2	64.1	47.7
05:00 AM - 06:00 AM	56.8	81.9	47.4
06:00 AM - 07:00 AM	57.3	82.2	46.9
07:00 AM - 08:00 AM	54.4	73.4	43.5
08:00 AM - 09:00 AM	49.3	71.2	42.4
09:00 AM - 10:00 AM	47.8	69.0	41.8
10:00 AM - 11:00 AM	50.0	71.4	43.4

Leq Average 24 hrs. (dB(A))

52.8

Lmax (dB(A))

82.4

L90 (dB(A))

43.9

Ldn (dB(A))

60.3

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

Chontichak

Chonticha Subongkoch  
Scientist (3)

Approved by

Supot S

Supot Salamteh  
Section Head

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## Analysis / Test Report



TESTING  
No.0042

Client : Dow Chemical Thailand Ltd.

10 Moo 2, Asia Industrial Estate, Tambol Banchang, Amphur Banchang, Rayong Thailand 21130

P/O : 4515619659

Project Name : Environmental Quality Monitoring

Project Location : AIE\_PG Plant

Lot ID: 2496076

Date Received : Sep 16, 2024

Date Reported : Sep 19, 2024

Report Number: 3115344-1

Page 1 of 1

Sample Number 2496076-7  
Parameter Noise (Leq 24 hrs.)  
Location กลุ่มบ้านประจวบมิตร (ที่อยู่ใกล้พื้นที่โครงการมากที่สุด) (GPS 47P 0726338, 1405748)  
Measurement Date Sep 11 - Sep 12, 2024  
Measurement by Santi Chaichana  
Sound Level meter Serial No. 296516

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
11:00 AM - 12:00 PM	51.0	69.9	44.8
12:00 PM - 01:00 PM	52.8	78.9	43.8
01:00 PM - 02:00 PM	49.1	73.9	43.2
02:00 PM - 03:00 PM	53.9	82.7	43.4
03:00 PM - 04:00 PM	55.2	86.6	43.0
04:00 PM - 05:00 PM	53.2	72.3	44.9
05:00 PM - 06:00 PM	51.9	77.7	45.5
06:00 PM - 07:00 PM	52.1	72.7	46.6
07:00 PM - 08:00 PM	50.7	72.2	46.3
08:00 PM - 09:00 PM	49.6	69.5	47.5
09:00 PM - 10:00 PM	47.8	62.3	45.2
10:00 PM - 11:00 PM	48.2	73.9	44.8
11:00 PM - 12:00 AM	45.1	59.4	43.5
12:00 AM - 01:00 AM	46.3	70.8	43.1
01:00 AM - 02:00 AM	46.4	65.0	44.2
02:00 AM - 03:00 AM	47.4	52.5	44.5
03:00 AM - 04:00 AM	48.4	57.5	47.4
04:00 AM - 05:00 AM	49.5	65.3	47.5
05:00 AM - 06:00 AM	55.6	80.0	47.3
06:00 AM - 07:00 AM	58.4	86.2	47.0
07:00 AM - 08:00 AM	53.5	75.7	41.4
08:00 AM - 09:00 AM	52.9	76.7	41.3
09:00 AM - 10:00 AM	52.8	72.1	43.7
10:00 AM - 11:00 AM	51.2	58.9	44.1

Leq Average 24 hrs. (dB(A))

52.2

Lmax (dB(A))

86.6

L90 (dB(A))

44.5

Ldn (dB(A))

58.5

Standard (dB(A))

70

115

Reference Method : ISO1996-1 and 1996-2

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

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

Technical Management

Chontichak

Chonticha Subongkoch  
Scientist (3)

Approved by

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Supot Salamteh  
Section Head

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## Analysis / Test Report



TESTING  
No.0042

Client : Dow Chemical Thailand Ltd.

10 Moo 2, Asia Industrial Estate, Tambol Banchang, Amphur Banchang, Rayong Thailand 21130

P/O : 4515619659

Project Name : Environmental Quality Monitoring

Project Location : AIE\_PG Plant

Lot ID: 2496076

Date Received : Sep 16, 2024

Date Reported : Sep 19, 2024

Report Number: 3115345-1

Page 1 of 1

Sample Number 2496076-8  
Parameter Noise (Leq 24 hrs.)  
Location กลุ่มบ้านชุมชนพนา 1 (ที่อยู่ใกล้พื้นที่โครงการมากที่สุด) (GPS 47P 0727177, 1404390)  
Measurement Date Sep 05 - Sep 06, 2024  
Measurement by Santi Chaichana  
Sound Level meter Serial No. 296518

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
12:00 PM - 01:00 PM	50.3	74.8	44.0
01:00 PM - 02:00 PM	49.3	66.0	44.0
02:00 PM - 03:00 PM	56.1	86.4	44.5
03:00 PM - 04:00 PM	55.2	81.1	44.1
04:00 PM - 05:00 PM	47.3	65.7	43.9
05:00 PM - 06:00 PM	48.1	66.5	44.8
06:00 PM - 07:00 PM	51.7	78.3	45.5
07:00 PM - 08:00 PM	50.5	72.0	45.7
08:00 PM - 09:00 PM	50.7	77.4	45.0
09:00 PM - 10:00 PM	46.4	56.4	45.5
10:00 PM - 11:00 PM	45.9	56.9	45.0
11:00 PM - 12:00 AM	49.8	72.2	45.5
12:00 AM - 01:00 AM	45.3	51.8	44.5
01:00 AM - 02:00 AM	44.0	47.9	43.6
02:00 AM - 03:00 AM	43.6	48.1	42.8
03:00 AM - 04:00 AM	47.8	70.4	42.7
04:00 AM - 05:00 AM	49.5	71.3	43.3
05:00 AM - 06:00 AM	59.0	73.4	43.8
06:00 AM - 07:00 AM	58.7	81.1	45.3
07:00 AM - 08:00 AM	56.5	79.7	45.4
08:00 AM - 09:00 AM	52.1	72.1	43.1
09:00 AM - 10:00 AM	49.9	69.3	43.0
10:00 AM - 11:00 AM	50.7	71.9	43.5
11:00 AM - 12:00 PM	51.7	70.1	44.0

Leq Average 24 hrs. (dB(A))

52.6

Lmax (dB(A))

86.4

L90 (dB(A))

44.0

Ldn (dB(A))

59.5

Standard (dB(A))

70

115

Reference Method : ISO1996-1 and 1996-2

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

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

Technical Management

Chontichak

Chonticha Subongkoch  
Scientist (3)

Approved by

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Supot Salamteh  
Section Head

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## Analysis / Test Report



TESTING  
No.0042

Client : Dow Chemical Thailand Ltd.

10 Moo 2, Asia Industrial Estate, Tambol Banchang, Amphur Banchang, Rayong Thailand 21130

P/O : 4515619659

Project Name : Environmental Quality Monitoring

Project Location : AIE\_PG Plant

Lot ID: 2496076

Date Received : Sep 16, 2024

Date Reported : Sep 19, 2024

Report Number: 3115346-1

Page 1 of 1

Sample Number 2496076-9  
Parameter Noise (Leq 24 hrs.)  
Location กลุ่มบ้านชุมชนพญน 1 (ที่อยู่ใกล้พื้นที่โครงการมากที่สุด) (GPS 47P 0727177, 1404390)  
Measurement Date Sep 06 - Sep 07, 2024  
Measurement by Santi Chalchana  
Sound Level meter Serial No. 296518

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
12:00 PM - 01:00 PM	53.0	69.7	44.1
01:00 PM - 02:00 PM	50.4	66.4	45.4
02:00 PM - 03:00 PM	56.1	80.9	43.4
03:00 PM - 04:00 PM	49.7	70.5	43.3
04:00 PM - 05:00 PM	51.2	72.6	43.0
05:00 PM - 06:00 PM	48.9	66.5	43.2
06:00 PM - 07:00 PM	46.4	65.3	43.1
07:00 PM - 08:00 PM	45.3	55.2	44.1
08:00 PM - 09:00 PM	44.9	60.7	44.1
09:00 PM - 10:00 PM	57.8	83.4	43.2
10:00 PM - 11:00 PM	44.8	71.0	43.4
11:00 PM - 12:00 AM	44.4	51.9	43.8
12:00 AM - 01:00 AM	46.2	69.1	43.9
01:00 AM - 02:00 AM	56.5	82.3	43.4
02:00 AM - 03:00 AM	46.7	67.4	43.3
03:00 AM - 04:00 AM	46.3	68.6	42.7
04:00 AM - 05:00 AM	53.7	71.5	41.9
05:00 AM - 06:00 AM	58.6	74.0	42.0
06:00 AM - 07:00 AM	58.0	83.0	44.2
07:00 AM - 08:00 AM	54.3	72.7	44.4
08:00 AM - 09:00 AM	52.7	75.3	44.5
09:00 AM - 10:00 AM	55.8	74.9	43.5
10:00 AM - 11:00 AM	50.5	67.5	44.9
11:00 AM - 12:00 PM	49.4	66.3	45.0

Leq Average 24 hrs. (dB(A))

53.2

Lmax (dB(A))

83.4

L90 (dB(A))

43.4

Ldn (dB(A))

60.2

Standard (dB(A))

70

115

Reference Method : ISO1996-1 and 1996-2

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

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

Technical Management

Chontichak

Chonticha Subongkoch

Scientist (3)

Approved by

Supot S

Supot Salamteh

Section Head

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## Analysis / Test Report



TESTING  
No.0042

Client : Dow Chemical Thailand Ltd.

10 Moo 2, Asia Industrial Estate, Tambol Banchang, Amphur Banchang, Rayong Thailand 21130

P/O : 4515619659

Project Name : Environmental Quality Monitoring

Project Location : AIE\_PG Plant

Lot ID: 2496076

Date Received : Sep 16, 2024

Date Reported : Sep 19, 2024

Report Number: 3115347-1

Page 1 of 1

Sample Number 2496076-10  
Parameter Noise (Leq 24 hrs.)  
Location กลุ่มบ้านชุมชนพญน 1 (ที่อยู่ใกล้พื้นที่โครงการมากที่สุด) (GPS 47P 0727177, 1404390)  
Measurement Date Sep 07 - Sep 08, 2024  
Measurement by Santi Chalchana  
Sound Level meter Serial No. 296518

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
12:00 PM - 01:00 PM	51.6	72.4	44.6
01:00 PM - 02:00 PM	50.2	70.6	44.6
02:00 PM - 03:00 PM	51.9	72.9	45.8
03:00 PM - 04:00 PM	55.1	76.0	44.8
04:00 PM - 05:00 PM	48.6	66.4	43.4
05:00 PM - 06:00 PM	48.2	70.6	43.5
06:00 PM - 07:00 PM	46.8	62.5	43.6
07:00 PM - 08:00 PM	49.3	70.8	44.5
08:00 PM - 09:00 PM	47.5	70.7	44.0
09:00 PM - 10:00 PM	45.7	52.3	44.2
10:00 PM - 11:00 PM	44.5	53.1	43.8
11:00 PM - 12:00 AM	44.4	57.5	43.9
12:00 AM - 01:00 AM	44.3	62.4	43.4
01:00 AM - 02:00 AM	43.4	56.1	42.9
02:00 AM - 03:00 AM	43.5	48.9	42.9
03:00 AM - 04:00 AM	45.8	66.0	43.0
04:00 AM - 05:00 AM	54.0	73.1	42.2
05:00 AM - 06:00 AM	59.5	74.8	41.7
06:00 AM - 07:00 AM	57.7	74.5	44.1
07:00 AM - 08:00 AM	52.0	71.3	43.4
08:00 AM - 09:00 AM	52.6	72.5	43.6
09:00 AM - 10:00 AM	49.1	71.3	44.1
10:00 AM - 11:00 AM	46.9	56.5	44.5
11:00 AM - 12:00 PM	50.7	67.9	45.3

Leq Average 24 hrs. (dB(A))

51.7

Lmax (dB(A))

76.0

L90 (dB(A))

43.8

Ldn (dB(A))

59.3

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

Chontichak

Chonticha Subongkoch

Scientist (3)

Approved by

Supot S

Supot Salamteh

Section Head

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S:\Reports\_Air Noise.rpt ( 9 17AM)



## Analysis / Test Report



TESTING  
No.0042

Client : Dow Chemical Thailand Ltd.

10 Moo 2, Asia Industrial Estate, Tambol Banchang, Amphur Banchang, Rayong Thailand 21130

P/O : 4515619659

Project Name : Environmental Quality Monitoring

Project Location : AIE\_PG Plant

Lot ID: 2496076

Date Received : Sep 16, 2024

Date Reported : Sep 19, 2024

Report Number: 3115348-1

Page 1 of 1

Sample Number 2496076-11  
Parameter Noise (Leq 24 hrs.)  
Location กลุ่มบ้านชุมชนพูน 1 (ที่อยู่ใกล้พื้นที่โครงการมากที่สุด) (GPS 47P 0727177, 1404390)  
Measurement Date Sep 08 - Sep 09, 2024  
Measurement by Santi Chaichana  
Sound Level meter Serial No. 296518

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
12:00 PM - 01:00 PM	51.3	73.2	43.9
01:00 PM - 02:00 PM	52.0	69.9	43.8
02:00 PM - 03:00 PM	53.6	73.5	43.8
03:00 PM - 04:00 PM	57.3	84.0	43.5
04:00 PM - 05:00 PM	50.9	70.7	43.5
05:00 PM - 06:00 PM	51.5	67.4	44.8
06:00 PM - 07:00 PM	46.4	63.8	43.6
07:00 PM - 08:00 PM	43.8	56.1	43.1
08:00 PM - 09:00 PM	43.6	55.3	42.8
09:00 PM - 10:00 PM	43.7	52.2	43.0
10:00 PM - 11:00 PM	47.8	70.5	42.8
11:00 PM - 12:00 AM	44.0	57.1	42.9
12:00 AM - 01:00 AM	43.5	53.1	42.5
01:00 AM - 02:00 AM	44.2	67.9	42.4
02:00 AM - 03:00 AM	48.6	71.3	42.3
03:00 AM - 04:00 AM	53.5	72.9	42.3
04:00 AM - 05:00 AM	59.2	82.9	41.7
05:00 AM - 06:00 AM	56.7	73.5	42.0
06:00 AM - 07:00 AM	58.4	74.9	44.3
07:00 AM - 08:00 AM	53.6	71.7	44.5
08:00 AM - 09:00 AM	53.6	74.7	44.6
09:00 AM - 10:00 AM	61.3	79.2	46.8
10:00 AM - 11:00 AM	62.0	80.7	44.4
11:00 AM - 12:00 PM	63.1	79.4	50.0

Leq Average 24 hrs. (dB(A))

55.9

Lmax (dB(A))

84.0

L90 (dB(A))

43.5

Ldn (dB(A))

61.1

Standard (dB(A))

70

115

Reference Method : ISO1996-1 and 1996-2

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

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

Technical Management

Chontichak

Chonticha Subongkoch  
Scientist (3)

Approved by

Supot S

Supot Salamteh  
Section Head

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## Analysis / Test Report



TESTING  
No.0042

Client : Dow Chemical Thailand Ltd.

10 Moo 2, Asia Industrial Estate, Tambol Banchang, Amphur Banchang, Rayong Thailand 21130

P/O : 4515619659

Project Name : Environmental Quality Monitoring

Project Location : AIE\_PG Plant

Lot ID: 2496076

Date Received : Sep 16, 2024

Date Reported : Sep 19, 2024

Report Number: 3115349-1

Page 1 of 1

Sample Number 2496076-12  
Parameter Noise (Leq 24 hrs.)  
Location กลุ่มบ้านชุมชนพูน 1 (ที่อยู่ใกล้พื้นที่โครงการมากที่สุด) (GPS 47P 0727177, 1404390)  
Measurement Date Sep 09 - Sep 10, 2024  
Measurement by Santi Chaichana  
Sound Level meter Serial No. 296518

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
12:00 PM - 01:00 PM	62.2	87.2	49.2
01:00 PM - 02:00 PM	62.1	89.8	49.2
02:00 PM - 03:00 PM	60.3	86.3	45.2
03:00 PM - 04:00 PM	54.8	82.1	44.5
04:00 PM - 05:00 PM	50.8	71.9	43.3
05:00 PM - 06:00 PM	54.2	81.2	43.5
06:00 PM - 07:00 PM	47.4	71.1	43.3
07:00 PM - 08:00 PM	44.7	63.7	43.2
08:00 PM - 09:00 PM	44.9	63.6	43.7
09:00 PM - 10:00 PM	46.4	68.8	43.8
10:00 PM - 11:00 PM	47.0	74.6	43.1
11:00 PM - 12:00 AM	48.9	82.4	43.2
12:00 AM - 01:00 AM	44.9	70.6	43.5
01:00 AM - 02:00 AM	45.1	70.8	43.0
02:00 AM - 03:00 AM	43.8	55.4	42.6
03:00 AM - 04:00 AM	47.6	73.3	42.0
04:00 AM - 05:00 AM	45.1	70.1	41.7
05:00 AM - 06:00 AM	52.2	74.9	41.6
06:00 AM - 07:00 AM	61.2	80.2	42.6
07:00 AM - 08:00 AM	56.0	78.1	43.6
08:00 AM - 09:00 AM	58.1	82.0	44.2
09:00 AM - 10:00 AM	58.3	84.7	42.7
10:00 AM - 11:00 AM	54.8	88.9	42.6
11:00 AM - 12:00 PM	51.8	75.1	43.8

Leq Average 24 hrs. (dB(A))

55.8

Lmax (dB(A))

89.8

L90 (dB(A))

43.3

Ldn (dB(A))

60.2

Standard (dB(A))

70

115

Reference Method : ISO1996-1 and 1996-2

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

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

Technical Management

Chontichak

Chonticha Subongkoch  
Scientist (3)

Approved by

Supot S

Supot Salamteh  
Section Head

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## Analysis / Test Report



TESTING  
No.0042

Client : Dow Chemical Thailand Ltd.

10 Moo 2, Asia Industrial Estate, Tambol Banchang, Amphur Banchang, Rayong Thailand 21130

P/O : 4515619659

Project Name : Environmental Quality Monitoring

Project Location : AIE\_PG Plant

Lot ID: 2496076

Date Received : Sep 16, 2024

Date Reported : Sep 19, 2024

Report Number: 3115350-1

Page 1 of 1

Sample Number 2496076-13  
Parameter Noise (Leq 24 hrs.)  
Location กลุ่มบ้านชุมชนพญาน 1 (ที่อยู่ใกล้พื้นที่โครงการมากที่สุด) (GPS 47P 0727177, 1404390)  
Measurement Date Sep 10 - Sep 11, 2024  
Measurement by Santi Chaichana  
Sound Level meter Serial No. 296518

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
12:00 PM - 01:00 PM	57.6	90.0	43.1
01:00 PM - 02:00 PM	49.8	73.7	42.9
02:00 PM - 03:00 PM	48.4	71.8	43.5
03:00 PM - 04:00 PM	58.1	82.0	43.6
04:00 PM - 05:00 PM	56.3	81.6	43.4
05:00 PM - 06:00 PM	48.3	77.2	43.5
06:00 PM - 07:00 PM	46.3	72.3	42.8
07:00 PM - 08:00 PM	47.2	73.5	43.6
08:00 PM - 09:00 PM	44.3	62.0	43.2
09:00 PM - 10:00 PM	44.9	61.1	42.9
10:00 PM - 11:00 PM	47.7	56.0	46.8
11:00 PM - 12:00 AM	47.1	68.0	45.2
12:00 AM - 01:00 AM	45.3	53.7	44.5
01:00 AM - 02:00 AM	49.6	73.7	44.2
02:00 AM - 03:00 AM	47.8	84.1	44.3
03:00 AM - 04:00 AM	55.1	80.6	43.7
04:00 AM - 05:00 AM	51.9	76.1	42.3
05:00 AM - 06:00 AM	58.1	80.2	42.4
06:00 AM - 07:00 AM	58.9	78.8	42.7
07:00 AM - 08:00 AM	55.8	77.0	43.9
08:00 AM - 09:00 AM	52.9	77.7	42.9
09:00 AM - 10:00 AM	51.3	74.5	42.9
10:00 AM - 11:00 AM	54.1	82.4	42.8
11:00 AM - 12:00 PM	50.8	74.0	43.1

Leq Average 24 hrs. (dB(A)) 53.5

Lmax (dB(A)) 90.0

L90 (dB(A)) 43.2

Ldn (dB(A)) 60.2

Standard (dB(A)) 70 115

Reference Method : ISO1996-1 and 1996-2

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

2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดค่าระดับเสียงการรบกวน และระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548

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

Technical Management

Chontichak

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Scientist (3)

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## Analysis / Test Report



TESTING  
No.0042

Client : Dow Chemical Thailand Ltd.

10 Moo 2, Asia Industrial Estate, Tambol Banchang, Amphur Banchang, Rayong Thailand 21130

P/O : 4515619659

Project Name : Environmental Quality Monitoring

Project Location : AIE\_PG Plant

Lot ID: 2496076

Date Received : Sep 16, 2024

Date Reported : Sep 19, 2024

Report Number: 3115351-1

Page 1 of 1

Sample Number 2496076-14  
Parameter Noise (Leq 24 hrs.)  
Location กลุ่มบ้านชุมชนพญาน 1 (ที่อยู่ใกล้พื้นที่โครงการมากที่สุด) (GPS 47P 0727177, 1404390)  
Measurement Date Sep 11 - Sep 12, 2024  
Measurement by Santi Chaichana  
Sound Level meter Serial No. 296518

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
12:00 PM - 01:00 PM	52.1	80.0	45.0
01:00 PM - 02:00 PM	58.6	84.3	45.3
02:00 PM - 03:00 PM	63.6	87.9	43.1
03:00 PM - 04:00 PM	53.1	75.7	42.6
04:00 PM - 05:00 PM	53.6	75.8	42.4
05:00 PM - 06:00 PM	48.6	77.3	42.9
06:00 PM - 07:00 PM	52.1	73.2	43.2
07:00 PM - 08:00 PM	53.6	80.3	43.1
08:00 PM - 09:00 PM	49.2	73.9	43.4
09:00 PM - 10:00 PM	46.1	73.7	42.7
10:00 PM - 11:00 PM	45.0	53.1	43.0
11:00 PM - 12:00 AM	44.9	61.5	43.4
12:00 AM - 01:00 AM	44.7	64.5	44.0
01:00 AM - 02:00 AM	47.3	70.4	43.3
02:00 AM - 03:00 AM	44.4	49.7	43.8
03:00 AM - 04:00 AM	46.8	71.4	44.1
04:00 AM - 05:00 AM	46.6	59.1	45.4
05:00 AM - 06:00 AM	56.4	77.3	46.1
06:00 AM - 07:00 AM	61.2	81.2	45.9
07:00 AM - 08:00 AM	57.6	77.6	44.4
08:00 AM - 09:00 AM	55.1	77.4	43.0
09:00 AM - 10:00 AM	53.4	76.9	42.5
10:00 AM - 11:00 AM	52.4	71.1	44.2
11:00 AM - 12:00 PM	53.6	73.5	43.8

Leq Average 24 hrs. (dB(A)) 55.1

Lmax (dB(A)) 87.9

L90 (dB(A)) 43.4

Ldn (dB(A)) 60.3

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

Chontichak

Chonticha Subongkoch

Scientist (3)

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## ภาคผนวก ค-3

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ผลการตรวจวัดระดับเสียงโดยทั่วไปบริเวณพื้นที่โครงการ



## Analysis / Test Report



TESTING  
No.0042

Client : Dow Chemical Thailand Ltd.  
10 Moo 2, Asia Industrial Estate, Tambol Banchang, Amphur Banchang, Rayong Thailand  
21130  
P/O : 4515619659  
Project Name : Environmental Quality Monitoring  
Project Location : AIE\_PG Plant

Lot ID: 2496101  
Date Received : Sep 16, 2024  
Date Reported : Sep 25, 2024  
Report Number: 3115441-1C16

Page 1 of 1

Sample Number 2496101-1  
Parameter Noise (Leq 24 hrs.)  
Location บริเวณรั้วของโครงการทางด้านทิศตะวันตกของพื้นที่ HPP0 (GPS 47P 0726777, 1405417)  
Measurement Date Sep 05 - Sep 06, 2024  
Measurement by Santi Chaichana  
Sound Level meter Serial No. 296517

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
09:00 AM - 10:00 AM	58.8	76.3	55.7
10:00 AM - 11:00 AM	57.4	73.3	55.3
11:00 AM - 12:00 PM	60.7	82.9	55.1
12:00 PM - 01:00 PM	58.1	77.0	54.8
01:00 PM - 02:00 PM	57.2	75.0	55.1
02:00 PM - 03:00 PM	57.1	75.2	55.1
03:00 PM - 04:00 PM	57.0	72.0	55.3
04:00 PM - 05:00 PM	60.8	81.3	55.5
05:00 PM - 06:00 PM	58.0	74.4	55.3
06:00 PM - 07:00 PM	58.2	77.8	55.7
07:00 PM - 08:00 PM	61.4	91.5	56.2
08:00 PM - 09:00 PM	57.8	79.7	56.4
09:00 PM - 10:00 PM	57.2	69.0	56.5
10:00 PM - 11:00 PM	56.9	69.6	56.1
11:00 PM - 12:00 AM	57.2	69.4	56.5
12:00 AM - 01:00 AM	57.1	75.2	56.4
01:00 AM - 02:00 AM	57.0	68.1	56.5
02:00 AM - 03:00 AM	57.2	62.4	56.7
03:00 AM - 04:00 AM	57.2	65.7	56.7
04:00 AM - 05:00 AM	57.4	77.1	56.4
05:00 AM - 06:00 AM	58.6	80.9	56.4
06:00 AM - 07:00 AM	61.5	81.9	56.7
07:00 AM - 08:00 AM	61.4	81.9	56.6
08:00 AM - 09:00 AM	58.9	79.3	55.8

Leq Average 24 hrs. (dB(A)) 58.7  
Lmax (dB(A)) 91.5  
L90 (dB(A)) 56.1  
Ldn (dB(A)) 64.6  
Standard (dB(A)) 70 115

Reference Method : ISO1996-1 and 1996-2

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

Technical Management

Chontichak

Chonticha Subongkoch  
Scientist (3)

Approved by

Supot S

Supot Salamteh  
Section Head

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8525-209/ EMAIL



## Analysis / Test Report



TESTING  
No.0042

Client : Dow Chemical Thailand Ltd.  
10 Moo 2, Asia Industrial Estate, Tambol Banchang, Amphur Banchang, Rayong Thailand  
21130  
P/O : 4515619659  
Project Name : Environmental Quality Monitoring  
Project Location : AIE\_PG Plant

Lot ID: 2496101  
Date Received : Sep 16, 2024  
Date Reported : Sep 25, 2024  
Report Number: 3115442-1C16

Page 1 of 1

Sample Number 2496101-2  
Parameter Noise (Leq 24 hrs.)  
Location บริเวณรั้วของโครงการทางด้านทิศตะวันตกของพื้นที่ HPP0 (GPS 47P 0726777, 1405417)  
Measurement Date Sep 06 - Sep 07, 2024  
Measurement by Santi Chaichana  
Sound Level meter Serial No. 296517

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
09:00 AM - 10:00 AM	56.6	67.7	54.9
10:00 AM - 11:00 AM	56.9	72.1	54.9
11:00 AM - 12:00 PM	57.6	76.4	54.9
12:00 PM - 01:00 PM	58.8	85.1	54.6
01:00 PM - 02:00 PM	57.8	74.7	55.5
02:00 PM - 03:00 PM	57.2	73.1	55.0
03:00 PM - 04:00 PM	56.9	73.6	55.1
04:00 PM - 05:00 PM	61.5	87.9	55.7
05:00 PM - 06:00 PM	63.6	93.3	57.1
06:00 PM - 07:00 PM	60.0	78.1	57.5
07:00 PM - 08:00 PM	58.7	72.1	57.3
08:00 PM - 09:00 PM	58.4	68.8	57.6
09:00 PM - 10:00 PM	57.6	68.0	56.6
10:00 PM - 11:00 PM	56.6	65.1	55.9
11:00 PM - 12:00 AM	56.7	65.8	55.9
12:00 AM - 01:00 AM	56.8	71.4	55.8
01:00 AM - 02:00 AM	56.9	68.4	56.2
02:00 AM - 03:00 AM	57.5	62.1	56.8
03:00 AM - 04:00 AM	57.5	66.2	56.7
04:00 AM - 05:00 AM	58.0	65.9	57.4
05:00 AM - 06:00 AM	58.4	67.0	57.7
06:00 AM - 07:00 AM	60.4	79.4	57.2
07:00 AM - 08:00 AM	60.8	83.2	56.3
08:00 AM - 09:00 AM	57.5	74.9	55.5

Leq Average 24 hrs. (dB(A)) 58.7  
Lmax (dB(A)) 93.3  
L90 (dB(A)) 55.9  
Ldn (dB(A)) 64.4  
Standard (dB(A)) 70 115

Reference Method : ISO1996-1 and 1996-2

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

Technical Management

Chontichak

Chonticha Subongkoch  
Scientist (3)

Approved by

Supot S

Supot Salamteh  
Section Head

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## Analysis / Test Report



TESTING  
No.0042

Client : Dow Chemical Thailand Ltd.

10 Moo 2, Asia Industrial Estate, Tambol Banchang, Amphur Banchang, Rayong Thailand  
21130

P/O : 4515619659

Project Name : Environmental Quality Monitoring

Project Location : AIE\_PG Plant

Lot ID: 2496101

Date Received : Sep 16, 2024

Date Reported : Sep 25, 2024

Report Number: 3115443-1C16

Page 1 of 1

Sample Number 2496101-3  
Parameter Noise (Leq 24 hrs.)  
Location บริเวณรั้วของโครงการทางด้านทิศตะวันตกของพื้นที่ HPPO (GPS 47P 0726777, 1405417)  
Measurement Date Sep 07 - Sep 08, 2024  
Measurement by Santi Chalchana  
Sound Level meter Serial No. 296517

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
09:00 AM - 10:00 AM	56.9	72.0	54.9
10:00 AM - 11:00 AM	57.7	76.0	55.4
11:00 AM - 12:00 PM	57.5	77.5	55.4
12:00 PM - 01:00 PM	57.4	70.7	55.7
01:00 PM - 02:00 PM	59.0	86.2	55.9
02:00 PM - 03:00 PM	59.0	80.6	56.5
03:00 PM - 04:00 PM	58.7	80.9	56.1
04:00 PM - 05:00 PM	60.0	81.1	55.9
05:00 PM - 06:00 PM	58.3	78.1	56.5
06:00 PM - 07:00 PM	59.3	78.8	56.9
07:00 PM - 08:00 PM	57.9	74.8	56.3
08:00 PM - 09:00 PM	57.2	76.5	55.9
09:00 PM - 10:00 PM	56.5	65.2	55.6
10:00 PM - 11:00 PM	56.7	67.4	55.8
11:00 PM - 12:00 AM	57.7	75.6	56.7
12:00 AM - 01:00 AM	57.8	72.9	57.1
01:00 AM - 02:00 AM	57.4	69.5	56.6
02:00 AM - 03:00 AM	57.2	59.6	56.5
03:00 AM - 04:00 AM	56.9	62.9	56.2
04:00 AM - 05:00 AM	57.8	62.7	57.1
05:00 AM - 06:00 AM	58.0	72.6	57.0
06:00 AM - 07:00 AM	59.8	78.7	57.3
07:00 AM - 08:00 AM	60.4	86.4	56.4
08:00 AM - 09:00 AM	57.0	71.9	55.7

Leq Average 24 hrs. (dB(A)) 58.1  
Lmax (dB(A)) 86.4  
L90 (dB(A)) 56.2  
Ldn (dB(A)) 64.3  
Standard (dB(A)) 70 115

Reference Method : ISO1996-1 and 1996-2

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

Technical Management

Chonticha Subongkoch  
Scientist (3)

Approved by

Supot Salamteh  
Section Head

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## Analysis / Test Report



TESTING  
No.0042

Client : Dow Chemical Thailand Ltd.

10 Moo 2, Asia Industrial Estate, Tambol Banchang, Amphur Banchang, Rayong Thailand  
21130

P/O : 4515619659

Project Name : Environmental Quality Monitoring

Project Location : AIE\_PG Plant

Lot ID: 2496101

Date Received : Sep 16, 2024

Date Reported : Sep 25, 2024

Report Number: 3115444-1C16

Page 1 of 1

Sample Number 2496101-4  
Parameter Noise (Leq 24 hrs.)  
Location บริเวณรั้วของโครงการทางด้านทิศตะวันตกของพื้นที่ HPPO (GPS 47P 0726777, 1405417)  
Measurement Date Sep 08 - Sep 09, 2024  
Measurement by Santi Chalchana  
Sound Level meter Serial No. 296517

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
09:00 AM - 10:00 AM	57.8	81.5	55.7
10:00 AM - 11:00 AM	56.8	68.1	55.6
11:00 AM - 12:00 PM	56.8	69.4	55.4
12:00 PM - 01:00 PM	57.1	70.1	55.6
01:00 PM - 02:00 PM	57.8	78.0	56.1
02:00 PM - 03:00 PM	57.5	74.1	56.4
03:00 PM - 04:00 PM	58.3	70.5	56.8
04:00 PM - 05:00 PM	58.4	71.1	56.9
05:00 PM - 06:00 PM	58.3	71.8	56.7
06:00 PM - 07:00 PM	59.2	73.8	57.7
07:00 PM - 08:00 PM	59.3	69.5	58.3
08:00 PM - 09:00 PM	58.4	74.8	57.1
09:00 PM - 10:00 PM	57.6	74.7	56.9
10:00 PM - 11:00 PM	57.4	65.8	56.7
11:00 PM - 12:00 AM	57.4	68.7	56.7
12:00 AM - 01:00 AM	59.1	68.6	58.2
01:00 AM - 02:00 AM	58.5	69.0	57.4
02:00 AM - 03:00 AM	58.4	65.2	57.3
03:00 AM - 04:00 AM	58.7	72.3	58.0
04:00 AM - 05:00 AM	58.3	59.9	57.9
05:00 AM - 06:00 AM	58.7	60.1	58.2
06:00 AM - 07:00 AM	59.4	69.0	58.5
07:00 AM - 08:00 AM	59.1	61.4	58.6
08:00 AM - 09:00 AM	59.1	65.7	58.4

Leq Average 24 hrs. (dB(A)) 58.3  
Lmax (dB(A)) 81.5  
L90 (dB(A)) 56.9  
Ldn (dB(A)) 64.8  
Standard (dB(A)) 70 115

Reference Method : ISO1996-1 and 1996-2

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

Technical Management

Chonticha Subongkoch  
Scientist (3)

Approved by

Supot Salamteh  
Section Head

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## Analysis / Test Report



TESTING  
No.0042

Client : Dow Chemical Thailand Ltd.

10 Moo 2, Asia Industrial Estate, Tambol Banchang, Amphur Banchang, Rayong Thailand  
21130

P/O : 4515619659

Project Name : Environmental Quality Monitoring

Project Location : AIE\_PG Plant

Lot ID: 2496101

Date Received : Sep 16, 2024

Date Reported : Sep 25, 2024

Report Number: 3115445-1C16

Page 1 of 1

**Sample Number** 2496101-5  
**Parameter** Noise (Leq 24 hrs.)  
**Location** บริเวณรั้วของโครงการทางด้านทิศตะวันตกของพื้นที่ HPPO (GPS 47P 0726777, 1405417)  
**Measurement Date** Sep 09 - Sep 10, 2024  
**Measurement by** Santi Chaichana  
**Sound Level meter** Serial No. 296517

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
09:00 AM - 10:00 AM	59.1	68.2	58.4
10:00 AM - 11:00 AM	58.0	61.4	57.3
11:00 AM - 12:00 PM	57.9	63.2	57.1
12:00 PM - 01:00 PM	57.9	60.2	57.1
01:00 PM - 02:00 PM	58.2	68.6	56.9
02:00 PM - 03:00 PM	57.9	64.8	57.0
03:00 PM - 04:00 PM	59.0	68.8	58.2
04:00 PM - 05:00 PM	62.3	86.0	57.9
05:00 PM - 06:00 PM	62.8	90.8	57.4
06:00 PM - 07:00 PM	60.0	84.8	56.8
07:00 PM - 08:00 PM	58.0	78.8	55.4
08:00 PM - 09:00 PM	58.2	77.1	56.0
09:00 PM - 10:00 PM	58.3	75.1	56.3
10:00 PM - 11:00 PM	62.0	87.5	56.0
11:00 PM - 12:00 AM	58.8	75.1	56.4
12:00 AM - 01:00 AM	59.5	81.5	57.7
01:00 AM - 02:00 AM	58.7	68.3	57.7
02:00 AM - 03:00 AM	58.8	70.6	58.2
03:00 AM - 04:00 AM	59.0	65.2	58.2
04:00 AM - 05:00 AM	58.2	66.7	57.6
05:00 AM - 06:00 AM	58.1	65.7	57.0
06:00 AM - 07:00 AM	57.5	61.2	57.0
07:00 AM - 08:00 AM	58.2	60.2	57.6
08:00 AM - 09:00 AM	58.4	69.6	57.9

Leq Average 24 hrs. (dB(A)) 59.2  
Lmax (dB(A)) 90.8  
L90 (dB(A)) 57.1  
Ldn (dB(A)) 65.6  
Standard (dB(A)) 70 115

Reference Method : ISO1996-1 and 1996-2

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

Technical Management

Chontichak

Chonticha Subongkoch  
Scientist (3)

Approved by

Supot S

Supot Salamteh  
Section Head

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## Analysis / Test Report



TESTING  
No.0042

Client : Dow Chemical Thailand Ltd.

10 Moo 2, Asia Industrial Estate, Tambol Banchang, Amphur Banchang, Rayong Thailand  
21130

P/O : 4515619659

Project Name : Environmental Quality Monitoring

Project Location : AIE\_PG Plant

Lot ID: 2496101

Date Received : Sep 16, 2024

Date Reported : Sep 25, 2024

Report Number: 3115446-1C16

Page 1 of 1

**Sample Number** 2496101-6  
**Parameter** Noise (Leq 24 hrs.)  
**Location** บริเวณรั้วของโครงการทางด้านทิศตะวันตกของพื้นที่ HPPO (GPS 47P 0726777, 1405417)  
**Measurement Date** Sep 10 - Sep 11, 2024  
**Measurement by** Santi Chaichana  
**Sound Level meter** Serial No. 296517

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
09:00 AM - 10:00 AM	58.1	66.1	57.4
10:00 AM - 11:00 AM	58.5	70.9	57.7
11:00 AM - 12:00 PM	60.7	79.7	57.9
12:00 PM - 01:00 PM	61.9	76.0	57.7
01:00 PM - 02:00 PM	60.7	86.4	56.4
02:00 PM - 03:00 PM	61.8	92.6	55.7
03:00 PM - 04:00 PM	57.5	71.5	55.8
04:00 PM - 05:00 PM	58.4	78.5	55.6
05:00 PM - 06:00 PM	57.8	70.6	55.7
06:00 PM - 07:00 PM	57.6	70.9	55.5
07:00 PM - 08:00 PM	57.2	71.5	55.7
08:00 PM - 09:00 PM	58.8	74.2	56.6
09:00 PM - 10:00 PM	58.7	77.6	56.4
10:00 PM - 11:00 PM	61.0	88.5	57.1
11:00 PM - 12:00 AM	59.5	76.3	57.6
12:00 AM - 01:00 AM	59.3	72.8	57.8
01:00 AM - 02:00 AM	59.1	77.9	57.8
02:00 AM - 03:00 AM	57.3	67.7	56.2
03:00 AM - 04:00 AM	57.9	65.7	57.1
04:00 AM - 05:00 AM	58.2	69.7	57.3
05:00 AM - 06:00 AM	58.2	60.7	57.5
06:00 AM - 07:00 AM	59.3	64.3	58.1
07:00 AM - 08:00 AM	58.4	65.6	57.8
08:00 AM - 09:00 AM	58.5	74.1	57.8

Leq Average 24 hrs. (dB(A)) 59.2  
Lmax (dB(A)) 92.6  
L90 (dB(A)) 57.1  
Ldn (dB(A)) 65.4  
Standard (dB(A)) 70 115

Reference Method : ISO1996-1 and 1996-2

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

Technical Management

Chontichak

Chonticha Subongkoch  
Scientist (3)

Approved by

Supot S

Supot Salamteh  
Section Head

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## Analysis / Test Report

Client : Dow Chemical Thailand Ltd.

10 Moo 2, Asia Industrial Estate, Tambol Banchang, Amphur Banchang, Rayong Thailand 21130

P/O : 4515619659

Project Name : Environmental Quality Monitoring

Project Location : AIE\_PG Plant



TESTING  
No.0042

Lot ID: 2496101

Date Received : Sep 16, 2024

Date Reported : Sep 25, 2024

Report Number: 3115447-1C16

Page 1 of 1

Sample Number 2496101-7  
Parameter Noise (Leq 24 hrs.)  
Location บริเวณรั้วของโครงการทางด้านทิศตะวันตกของพื้นที่ HPPO (GPS 47P 0726777, 1405417)  
Measurement Date Sep 11 - Sep 12, 2024  
Measurement by Santi Chalchana  
Sound Level meter Serial No. 296517

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
09:00 AM - 10:00 AM	58.8	65.6	57.9
10:00 AM - 11:00 AM	59.1	65.1	58.3
11:00 AM - 12:00 PM	60.7	76.1	58.4
12:00 PM - 01:00 PM	62.3	82.8	57.5
01:00 PM - 02:00 PM	59.2	75.0	55.8
02:00 PM - 03:00 PM	58.0	68.6	56.1
03:00 PM - 04:00 PM	57.8	69.3	55.9
04:00 PM - 05:00 PM	58.0	74.4	55.8
05:00 PM - 06:00 PM	57.3	71.8	55.0
06:00 PM - 07:00 PM	59.1	84.5	55.9
07:00 PM - 08:00 PM	57.8	69.2	56.4
08:00 PM - 09:00 PM	59.8	85.1	57.0
09:00 PM - 10:00 PM	58.7	75.9	57.2
10:00 PM - 11:00 PM	61.4	87.3	57.6
11:00 PM - 12:00 AM	59.6	77.1	57.5
12:00 AM - 01:00 AM	59.4	73.9	57.3
01:00 AM - 02:00 AM	59.5	69.4	58.6
02:00 AM - 03:00 AM	58.7	69.4	58.1
03:00 AM - 04:00 AM	58.5	69.7	57.9
04:00 AM - 05:00 AM	58.8	77.1	57.7
05:00 AM - 06:00 AM	58.1	72.1	57.6
06:00 AM - 07:00 AM	58.0	66.4	57.4
07:00 AM - 08:00 AM	58.5	68.9	58.1
08:00 AM - 09:00 AM	59.2	61.7	58.6

Leq Average 24 hrs. (dB(A)) 59.2  
Lmax (dB(A)) 87.3  
L90 (dB(A)) 57.5  
Ldn (dB(A)) 65.6  
Standard (dB(A)) 70 115

Reference Method : ISO1996-1 and 1996-2

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

Technical Management

Chontichak  
Chonticha Subongkoch  
Scientist (3)

Approved by

Supot Salamteh  
Section Head

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## Analysis / Test Report

Client : Dow Chemical Thailand Ltd.

10 Moo 2, Asia Industrial Estate, Tambol Banchang, Amphur Banchang, Rayong Thailand 21130

P/O : 4515619659

Project Name : Environmental Quality Monitoring

Project Location : AIE\_PG Plant



TESTING  
No.0042

Lot ID: 2496104

Date Received : Sep 16, 2024

Date Reported : Sep 25, 2024

Report Number: 3115466-1C16

Page 1 of 1

Sample Number 2496104-1  
Parameter Noise (Leq 24 hrs.)  
Location บริเวณรั้วของโครงการทางด้านทิศใต้ของพื้นที่ HPPO (ข้างนิคม รพก นล็ค 45) (GPS 47P 0727136, 1404550)  
Measurement Date Sep 05 - Sep 06, 2024  
Measurement by Santi Chalchana  
Sound Level meter Serial No. 597167

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
10:00 AM - 11:00 AM	47.9	76.9	44.8
11:00 AM - 12:00 PM	48.7	66.3	44.6
12:00 PM - 01:00 PM	46.8	67.7	43.6
01:00 PM - 02:00 PM	53.6	77.5	44.2
02:00 PM - 03:00 PM	49.2	71.2	44.5
03:00 PM - 04:00 PM	51.0	70.7	45.8
04:00 PM - 05:00 PM	49.8	69.8	46.4
05:00 PM - 06:00 PM	52.3	69.7	49.3
06:00 PM - 07:00 PM	51.6	75.1	48.1
07:00 PM - 08:00 PM	47.9	63.8	46.4
08:00 PM - 09:00 PM	47.1	61.4	46.1
09:00 PM - 10:00 PM	47.4	59.4	46.3
10:00 PM - 11:00 PM	49.7	70.6	46.0
11:00 PM - 12:00 AM	46.7	59.9	45.3
12:00 AM - 01:00 AM	46.8	58.3	45.0
01:00 AM - 02:00 AM	47.8	69.4	44.9
02:00 AM - 03:00 AM	47.7	60.2	45.3
03:00 AM - 04:00 AM	49.0	72.8	46.2
04:00 AM - 05:00 AM	52.6	81.8	46.8
05:00 AM - 06:00 AM	53.8	74.0	48.5
06:00 AM - 07:00 AM	55.4	76.2	46.2
07:00 AM - 08:00 AM	50.6	76.9	43.7
08:00 AM - 09:00 AM	50.6	76.8	44.9
09:00 AM - 10:00 AM	49.9	67.9	44.9

Leq Average 24 hrs. (dB(A)) 50.5  
Lmax (dB(A)) 81.8  
L90 (dB(A)) 45.3  
Ldn (dB(A)) 57.4  
Standard (dB(A)) 70 115

Reference Method : ISO1996-1 and 1996-2

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

Technical Management

Chontichak  
Chonticha Subongkoch  
Scientist (3)

Approved by

Supot Salamteh  
Section Head

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8525-209/ EMAIL



## Analysis / Test Report



TESTING  
No.0042

**Client :** Dow Chemical Thailand Ltd.  
10 Moo 2, Asia Industrial Estate, Tambol Banchang, Amphur Banchang, Rayong Thailand  
21130  
**P/O :** 4515619659  
**Project Name :** Environmental Quality Monitoring  
**Project Location :** AIE\_PG Plant

**Lot ID: 2496104**  
Date Received : Sep 16, 2024  
Date Reported : Sep 25, 2024  
Report Number: 3115467-1C16

Page 1 of 1

<b>Sample Number</b>	2496104-2
<b>Parameter</b>	Noise (Leq 24 hrs.)
<b>Location</b>	บริเวณรั้วของโครงการทางด้านทิศใต้ของพื้นที่ HPPO (ข้างนิคม รพท บล๊อค 45) (GPS 47P 0727136, 1404550)
<b>Measurement Date</b>	Sep 06 - Sep 07, 2024
<b>Measurement by</b>	Santi Chaichana
<b>Sound Level meter</b>	Serial No. 597167

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
10:00 AM - 11:00 AM	49.5	70.2	45.1
11:00 AM - 12:00 PM	51.0	72.7	46.5
12:00 PM - 01:00 PM	53.2	83.7	44.9
01:00 PM - 02:00 PM	53.6	78.2	45.0
02:00 PM - 03:00 PM	51.0	70.9	45.9
03:00 PM - 04:00 PM	50.4	71.1	45.9
04:00 PM - 05:00 PM	52.0	74.9	45.9
05:00 PM - 06:00 PM	50.5	65.4	48.0
06:00 PM - 07:00 PM	49.2	64.1	47.5
07:00 PM - 08:00 PM	57.4	82.3	45.6
08:00 PM - 09:00 PM	46.6	58.9	45.3
09:00 PM - 10:00 PM	46.1	56.3	45.3
10:00 PM - 11:00 PM	46.7	61.4	45.1
11:00 PM - 12:00 AM	55.2	80.1	45.3
12:00 AM - 01:00 AM	46.0	55.6	45.2
01:00 AM - 02:00 AM	47.8	66.6	45.3
02:00 AM - 03:00 AM	46.3	59.9	45.2
03:00 AM - 04:00 AM	46.7	61.2	45.3
04:00 AM - 05:00 AM	51.8	78.7	46.4
05:00 AM - 06:00 AM	52.5	68.5	47.9
06:00 AM - 07:00 AM	54.1	72.2	47.4
07:00 AM - 08:00 AM	52.4	71.2	46.6
08:00 AM - 09:00 AM	51.7	77.4	45.5
09:00 AM - 10:00 AM	49.2	63.7	45.2

Leq Average 24 hrs. (dB(A))	51.6		
Lmax (dB(A))		83.7	
L90 (dB(A))			45.3
Ldn (dB(A))	57.6		
Standard (dB(A))	70	115	

Reference Method : ISO1996-1 and 1996-2

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

Technical Management

Chontichak

Chonticha Subongkoch  
Scientist (3)

Approved by

Supt S

Supot Salamteh  
Section Head

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## Analysis / Test Report



TESTING  
No.0042

**Client :** Dow Chemical Thailand Ltd.  
10 Moo 2, Asia Industrial Estate, Tambol Banchang, Amphur Banchang, Rayong Thailand  
21130  
**P/O :** 4515619659  
**Project Name :** Environmental Quality Monitoring  
**Project Location :** AIE\_PG Plant

**Lot ID: 2496104**  
Date Received : Sep 16, 2024  
Date Reported : Sep 25, 2024  
Report Number: 3115468-1C16

Page 1 of 1

<b>Sample Number</b>	2496104-3
<b>Parameter</b>	Noise (Leq 24 hrs.)
<b>Location</b>	บริเวณรั้วของโครงการทางด้านทิศใต้ของพื้นที่ HPPO (ข้างนิคม รพท บล๊อค 45) (GPS 47P 0727136, 1404550)
<b>Measurement Date</b>	Sep 07 - Sep 08, 2024
<b>Measurement by</b>	Santi Chaichana
<b>Sound Level meter</b>	Serial No. 597167

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
10:00 AM - 11:00 AM	48.1	67.1	44.4
11:00 AM - 12:00 PM	47.1	65.4	44.3
12:00 PM - 01:00 PM	51.8	69.9	45.1
01:00 PM - 02:00 PM	54.6	76.0	45.9
02:00 PM - 03:00 PM	50.4	71.9	45.6
03:00 PM - 04:00 PM	51.2	83.1	45.3
04:00 PM - 05:00 PM	54.6	84.5	45.5
05:00 PM - 06:00 PM	51.4	70.9	46.4
06:00 PM - 07:00 PM	48.6	70.6	45.1
07:00 PM - 08:00 PM	47.0	60.1	45.2
08:00 PM - 09:00 PM	46.8	60.7	45.0
09:00 PM - 10:00 PM	46.8	59.1	45.6
10:00 PM - 11:00 PM	47.4	72.6	45.2
11:00 PM - 12:00 AM	45.8	67.0	44.6
12:00 AM - 01:00 AM	45.4	61.7	44.3
01:00 AM - 02:00 AM	47.5	69.4	44.5
02:00 AM - 03:00 AM	49.3	69.6	46.1
03:00 AM - 04:00 AM	46.9	62.1	45.7
04:00 AM - 05:00 AM	50.2	64.2	46.9
05:00 AM - 06:00 AM	51.1	69.5	46.0
06:00 AM - 07:00 AM	50.7	68.7	44.7
07:00 AM - 08:00 AM	48.1	64.6	44.5
08:00 AM - 09:00 AM	50.3	73.2	44.4
09:00 AM - 10:00 AM	48.5	65.2	45.1

Leq Average 24 hrs. (dB(A))	49.9		
Lmax (dB(A))		84.5	
L90 (dB(A))			45.1
Ldn (dB(A))	55.4		
Standard (dB(A))	70	115	

Reference Method : ISO1996-1 and 1996-2

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

Technical Management

Chontichak

Chonticha Subongkoch  
Scientist (3)

Approved by

Supt S

Supot Salamteh  
Section Head

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## Analysis / Test Report



TESTING  
No.0042

Client : Dow Chemical Thailand Ltd.

10 Moo 2, Asia Industrial Estate, Tambol Banchang, Amphur Banchang, Rayong Thailand  
21130

P/O : 4515619659

Project Name : Environmental Quality Monitoring

Project Location : AIE\_PG Plant

Lot ID: 2496104

Date Received : Sep 16, 2024

Date Reported : Sep 25, 2024

Report Number: 3115469-1C16

Page 1 of 1

Sample Number	2496104-4
Parameter	Noise (Leq 24 hrs.)
Location	บริเวณริมรั้วของโครงการทางด้านทิศใต้ของพื้นที่ HPPO (ข้างปั๊มน รถ บลิค 45) (GPS 47P 0727136, 1404550)
Measurement Date	Sep 08 - Sep 09, 2024
Measurement by	Santi Chaichana
Sound Level meter	Serial No. 597167

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
10:00 AM - 11:00 AM	46.4	68.0	44.0
11:00 AM - 12:00 PM	48.8	67.5	44.2
12:00 PM - 01:00 PM	52.2	78.8	43.4
01:00 PM - 02:00 PM	48.3	68.7	43.7
02:00 PM - 03:00 PM	52.2	76.1	43.9
03:00 PM - 04:00 PM	52.8	68.3	45.9
04:00 PM - 05:00 PM	49.7	68.8	47.4
05:00 PM - 06:00 PM	49.9	67.4	47.7
06:00 PM - 07:00 PM	48.6	71.5	47.0
07:00 PM - 08:00 PM	47.4	63.5	46.3
08:00 PM - 09:00 PM	47.2	59.2	46.1
09:00 PM - 10:00 PM	49.5	71.0	46.1
10:00 PM - 11:00 PM	47.3	67.1	45.4
11:00 PM - 12:00 AM	47.1	65.3	45.0
12:00 AM - 01:00 AM	50.3	68.0	45.3
01:00 AM - 02:00 AM	52.6	70.1	46.4
02:00 AM - 03:00 AM	54.5	77.9	47.1
03:00 AM - 04:00 AM	55.0	77.9	48.1
04:00 AM - 05:00 AM	51.1	71.0	47.1
05:00 AM - 06:00 AM	53.3	76.5	48.2
06:00 AM - 07:00 AM	51.8	70.1	46.9
07:00 AM - 08:00 AM	51.5	69.2	46.5
08:00 AM - 09:00 AM	53.4	76.7	45.0
09:00 AM - 10:00 AM	49.6	66.7	45.2

Leq Average 24 hrs. (dB(A))

51.1

Lmax (dB(A))

78.8

L90 (dB(A))

46.1

Ldn (dB(A))

58.4

Standard (dB(A))

70

115

Reference Method : ISO1996-1 and 1996-2

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

Technical Management

Chonticha Subongkoch  
Scientist (3)

Approved by

Supot Salamteh  
Section Head

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## Analysis / Test Report



TESTING  
No.0042

Client : Dow Chemical Thailand Ltd.

10 Moo 2, Asia Industrial Estate, Tambol Banchang, Amphur Banchang, Rayong Thailand  
21130

P/O : 4515619659

Project Name : Environmental Quality Monitoring

Project Location : AIE\_PG Plant

Lot ID: 2496104

Date Received : Sep 16, 2024

Date Reported : Sep 25, 2024

Report Number: 3115470-1C16

Page 1 of 1

Sample Number	2496104-5
Parameter	Noise (Leq 24 hrs.)
Location	บริเวณริมรั้วของโครงการทางด้านทิศใต้ของพื้นที่ HPPO (ข้างปั๊มน รถ บลิค 45) (GPS 47P 0727136, 1404550)
Measurement Date	Sep 09 - Sep 10, 2024
Measurement by	Santi Chaichana
Sound Level meter	Serial No. 597167

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
10:00 AM - 11:00 AM	49.6	65.3	45.6
11:00 AM - 12:00 PM	48.4	68.1	44.6
12:00 PM - 01:00 PM	49.2	66.9	45.3
01:00 PM - 02:00 PM	50.5	72.8	45.0
02:00 PM - 03:00 PM	54.3	77.4	44.9
03:00 PM - 04:00 PM	51.4	74.4	44.8
04:00 PM - 05:00 PM	51.1	68.7	45.7
05:00 PM - 06:00 PM	53.8	83.2	45.8
06:00 PM - 07:00 PM	51.2	78.7	45.5
07:00 PM - 08:00 PM	47.5	64.6	46.2
08:00 PM - 09:00 PM	47.8	67.2	46.2
09:00 PM - 10:00 PM	49.8	77.9	45.9
10:00 PM - 11:00 PM	46.9	64.4	45.6
11:00 PM - 12:00 AM	46.2	53.7	45.4
12:00 AM - 01:00 AM	46.6	55.7	45.6
01:00 AM - 02:00 AM	47.1	68.5	45.5
02:00 AM - 03:00 AM	46.4	57.6	45.2
03:00 AM - 04:00 AM	47.4	59.7	45.2
04:00 AM - 05:00 AM	51.8	64.4	47.9
05:00 AM - 06:00 AM	56.3	76.7	47.7
06:00 AM - 07:00 AM	53.0	71.6	48.5
07:00 AM - 08:00 AM	55.2	74.7	47.5
08:00 AM - 09:00 AM	54.1	82.1	46.6
09:00 AM - 10:00 AM	49.9	68.5	45.5

Leq Average 24 hrs. (dB(A))

51.3

Lmax (dB(A))

83.2

L90 (dB(A))

45.6

Ldn (dB(A))

57.3

Standard (dB(A))

70

115

Reference Method : ISO1996-1 and 1996-2

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

Technical Management

Chonticha Subongkoch  
Scientist (3)

Approved by

Supot Salamteh  
Section Head

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## Analysis / Test Report



TESTING  
No.0042

Client : Dow Chemical Thailand Ltd.

10 Moo 2, Asia Industrial Estate, Tambol Banchang, Amphur Banchang, Rayong Thailand  
21130

P/O : 4515619659

Project Name : Environmental Quality Monitoring

Project Location : AIE\_PG Plant

Lot ID: 2496104

Date Received : Sep 16, 2024

Date Reported : Sep 25, 2024

Report Number: 3115471-1C16

Page 1 of 1

Sample Number	2496104-6
Parameter	Noise (Leq 24 hrs.)
Location	บริเวณริมรั้วของโครงการทางด้านทิศใต้ของพื้นที่ HPPO (ข้างปั๊มน รถบัส 45) (GPS 47P 0727136, 1404550)
Measurement Date	Sep 10 - Sep 11, 2024
Measurement by	Santi Chalchana
Sound Level meter	Serial No. 597167

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
10:00 AM - 11:00 AM	50.0	66.3	45.6
11:00 AM - 12:00 PM	49.7	66.0	44.7
12:00 PM - 01:00 PM	48.5	65.4	44.9
01:00 PM - 02:00 PM	48.5	62.3	44.9
02:00 PM - 03:00 PM	54.9	79.5	44.4
03:00 PM - 04:00 PM	49.4	70.9	44.5
04:00 PM - 05:00 PM	54.8	80.4	46.7
05:00 PM - 06:00 PM	52.8	76.7	46.9
06:00 PM - 07:00 PM	50.9	70.1	47.4
07:00 PM - 08:00 PM	49.0	65.5	46.3
08:00 PM - 09:00 PM	49.0	56.1	47.1
09:00 PM - 10:00 PM	50.5	64.1	48.8
10:00 PM - 11:00 PM	48.9	54.9	47.5
11:00 PM - 12:00 AM	48.0	55.6	46.9
12:00 AM - 01:00 AM	51.1	73.0	47.3
01:00 AM - 02:00 AM	54.1	77.5	47.2
02:00 AM - 03:00 AM	48.0	58.5	46.4
03:00 AM - 04:00 AM	50.2	66.8	46.3
04:00 AM - 05:00 AM	54.0	77.2	46.9
05:00 AM - 06:00 AM	51.6	70.8	47.6
06:00 AM - 07:00 AM	53.7	70.9	48.9
07:00 AM - 08:00 AM	51.2	70.8	45.1
08:00 AM - 09:00 AM	50.0	74.1	44.1
09:00 AM - 10:00 AM	50.3	77.8	43.7

Leq Average 24 hrs. (dB(A))

51.4

Lmax (dB(A))

80.4

L90 (dB(A))

46.4

Ldn (dB(A))

58.0

Standard (dB(A))

70

115

Reference Method : ISO1996-1 and 1996-2

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

Technical Management

Chontichak

Chonticha Subongkoch

Scientist (3)

Approved by

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Supot Salamteh

Section Head

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## Analysis / Test Report



TESTING  
No.0042

Client : Dow Chemical Thailand Ltd.

10 Moo 2, Asia Industrial Estate, Tambol Banchang, Amphur Banchang, Rayong Thailand  
21130

P/O : 4515619659

Project Name : Environmental Quality Monitoring

Project Location : AIE\_PG Plant

Lot ID: 2496104

Date Received : Sep 16, 2024

Date Reported : Sep 25, 2024

Report Number: 3115472-1C16

Page 1 of 1

Sample Number	2496104-7
Parameter	Noise (Leq 24 hrs.)
Location	บริเวณริมรั้วของโครงการทางด้านทิศใต้ของพื้นที่ HPPO (ข้างปั๊มน รถบัส 45) (GPS 47P 0727136, 1404550)
Measurement Date	Sep 11 - Sep 12, 2024
Measurement by	Santi Chalchana
Sound Level meter	Serial No. 597167

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
10:00 AM - 11:00 AM	48.3	63.8	44.0
11:00 AM - 12:00 PM	47.5	64.5	44.5
12:00 PM - 01:00 PM	49.4	66.5	45.2
01:00 PM - 02:00 PM	50.3	69.9	44.7
02:00 PM - 03:00 PM	52.9	71.3	46.0
03:00 PM - 04:00 PM	50.9	73.5	45.7
04:00 PM - 05:00 PM	51.2	70.6	47.0
05:00 PM - 06:00 PM	53.8	77.2	46.7
06:00 PM - 07:00 PM	51.1	69.6	48.1
07:00 PM - 08:00 PM	51.5	72.8	47.4
08:00 PM - 09:00 PM	48.8	69.3	46.3
09:00 PM - 10:00 PM	47.7	63.0	46.3
10:00 PM - 11:00 PM	49.1	66.1	47.5
11:00 PM - 12:00 AM	50.2	68.2	47.3
12:00 AM - 01:00 AM	49.3	64.9	46.9
01:00 AM - 02:00 AM	49.8	59.7	47.8
02:00 AM - 03:00 AM	51.4	60.9	48.9
03:00 AM - 04:00 AM	52.6	64.5	49.5
04:00 AM - 05:00 AM	52.0	67.5	49.5
05:00 AM - 06:00 AM	55.5	68.5	51.3
06:00 AM - 07:00 AM	55.3	75.6	49.5
07:00 AM - 08:00 AM	52.8	73.2	45.5
08:00 AM - 09:00 AM	49.4	68.1	44.8
09:00 AM - 10:00 AM	47.9	68.7	43.7

Leq Average 24 hrs. (dB(A))

51.4

Lmax (dB(A))

77.2

L90 (dB(A))

46.7

Ldn (dB(A))

58.5

Standard (dB(A))

70

115

Reference Method : ISO1996-1 and 1996-2

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

Technical Management

Chontichak

Chonticha Subongkoch

Scientist (3)

Approved by

Supot S

Supot Salamteh

Section Head

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## ภาคผนวก ค-4

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ผลการตรวจวิเคราะห์คุณภาพน้ำเสียจากกระบวนการผลิต



## Analysis / Test Report

Client : Dow Chemical Thailand Ltd.  
10 Moo 2, Asia Industrial Estate, Tambol Banchang, Amphur Banchang, Rayong Thailand  
21130  
P/O : 4515619685  
Project Name : Water Testing  
Project Location : AIE\_PG Plant



TESTING  
No.0042

Lot ID: 2472420  
Date Received :Jul 09, 2024  
Date Reported :Jul 17, 2024  
Report Number :3058198-1

Page 1 of 1

Sample Number 2472420-1  
Sampled Date Jul 09, 2024 2:45 PM  
Sample Description Wastewater  
Location PG Process  
Date Analysis Commenced Jul 09, 2024  
Condition of Sample Contained in two glass vials, two amber glass bottles and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Method	Testing Location
Water Testing						
BOD (5 days at 20 Degree C)	mg/L	-	2.0	8370	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	38489	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Rayong
Oil & Grease	mg/L	-	3	<3	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
pH at 25 degree C	-	-	-	5.5	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	<5	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

Sampling By : Surawit Narapong ทะเบียนเลขที่ ร-323-ก-0011 , Pattarapol Sawangjaitam ทะเบียนเลขที่ ร-204-ก-0002

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

Technical Management

Photchana S.

Photchana Seeda  
Scientist (4)

ทะเบียนเลขที่ ร-323-ก-9446

Approved by

Dej Changchon

Senior Manager

ทะเบียนเลขที่ ร-323-ก-9442

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## Analysis / Test Report

Client : Dow Chemical Thailand Ltd.  
10 Moo 2, Asia Industrial Estate, Tambol Banchang, Amphur Banchang, Rayong Thailand  
21130  
P/O : 4515619685  
Project Name : Water Testing  
Project Location : AIE\_PG Plant

Lot ID: 2472420  
Date Received :Jul 09, 2024  
Date Reported :Jul 17, 2024  
Report Number :3058198-2

Page 1 of 1

Sample Number 2472420-1  
Sampled Date Jul 09, 2024 2:45 PM  
Sample Description Wastewater  
Location PG Process  
Date Analysis Commenced Jul 12, 2024  
Condition of Sample Contained in two glass vials, two amber glass bottles and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Method	Testing Location
Water Testing						
Propylene Glycol	mg/L	-	1.0	9274	In-house method based on United States Environmental Protection Agency, EPA Method 8015 B	Bangkok
Total Organic Carbon	mg/L	0.01	0.1	9093	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 5310 B	Bangkok

Sampling By : Surawit Narapong , Pattarapol Sawangjaitam

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

Approved by

Siriluk P.

Siriluk Bunnak  
Section Head

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## Analysis / Test Report

Client : Dow Chemical Thailand Ltd.  
10 Moo 2, Asia Industrial Estate, Tambol Banchang, Amphur Banchang, Rayong Thailand  
21130  
P/O : 4515619685  
Project Name : Water Testing  
Project Location : AIE\_PG Plant

Lot ID: 2485587  
Date Received : Aug 07, 2024  
Date Reported : Aug 15, 2024  
Report Number : 3083632-1



TESTING  
No.0042

Page 1 of 1

Sample Number	2485587-1
Sampled Date	Aug 07, 2024 10:50 AM
Sample Description	Wastewater
Location	PG Process
Date Analysis Commenced	Aug 07, 2024
Condition of Sample	Contained in two glass vials, three amber glass bottles and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Method	Testing Location
Water Testing						
BOD (5 days at 20 Degree C)	mg/L	-	2.0	3605	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	45161	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Rayong
Oil & Grease	mg/L	-	3	<3	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
pH at 25 degree C *		-	-	3.9	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	<5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

Sampling By : Wanlop Hunchainaow ทะเบียนเลขที่ 7-323-3-9457 , Pattarapol Sawangjaitam ทะเบียนเลขที่ 7-204-3-0002

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

Technical Management

Photchana S.

Photchana Seeda  
Scientist (4)  
ทะเบียนเลขที่ 7-323-3-9446

Approved by

Dej Changchon

Senior Manager  
ทะเบียนเลขที่ 7-323-3-9442

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## Analysis / Test Report

Client : Dow Chemical Thailand Ltd.  
10 Moo 2, Asia Industrial Estate, Tambol Banchang, Amphur Banchang, Rayong Thailand  
21130  
P/O : 4515619685  
Project Name : Water Testing  
Project Location : AIE\_PG Plant

Lot ID: 2485587  
Date Received : Aug 07, 2024  
Date Reported : Aug 16, 2024  
Report Number : 3083632-2

Page 1 of 1

Sample Number	2485587-1
Sampled Date	Aug 07, 2024 10:50 AM
Sample Description	Wastewater
Location	PG Process
Date Analysis Commenced	Aug 08, 2024
Condition of Sample	Contained in two glass vials, three amber glass bottles and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Method	Testing Location
Water Testing						
Propylene Glycol	mg/L	-	1.0	16063	In-house method based on United States Environmental Protection Agency, EPA Method 8015 B	Bangkok
Total Organic Carbon	mg/L	0.01	0.1	9835	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5310 B	Bangkok

Sampling By : Wanlop Hunchainaow , Pattarapol Sawangjaitam

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

Approved by

Siriluk P.

Siriluk Bunnak  
Section Head

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## Analysis / Test Report

Client : Dow Chemical Thailand Ltd.  
10 Moo 2, Asia Industrial Estate, Tambol Banchang, Amphur Banchang, Rayong Thailand  
21130  
P/O : 4515619685  
Project Name : Water Testing  
Project Location : AIE\_PG Plant



TESTING  
No.0042

Lot ID: 2496231  
Date Received : Sep 04, 2024  
Date Reported : Sep 12, 2024  
Report Number : 3108878-1

Page 1 of 1

Sample Number 2496231-1  
Sampled Date Sep 04, 2024 11:05 AM  
Sample Description Wastewater  
Location PG Process  
Date Analysis Commenced Sep 04, 2024  
Condition of Sample Contained in one amber glass bottle, two glass vials and four plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Method	Testing Location
Water Testing						
BOD (5 days at 20 Degree C)	mg/L	-	2.0	3817	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	20640	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Rayong
Oil & Grease	mg/L	-	3	<3	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
pH at 25 degree C	-	-	-	4.1	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	<5	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

Sampling By : Surawit Narapong , Pattarapol Sawangjaitam ทะเบียนเลขที่ ร-323-ก-0011 , Pattarapol Sawangjaitam ทะเบียนเลขที่ ร-204-ก-0002

Remark :  
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Technical Management

Photchanas S.

Photchana Seeda  
Scientist (4)  
ทะเบียนเลขที่ ร-323-ก-0028

Approved by

Dej Changchon

Dej Changchon  
Senior Manager  
ทะเบียนเลขที่ ร-323-ก-0001

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## Analysis / Test Report

Client : Dow Chemical Thailand Ltd.  
10 Moo 2, Asia Industrial Estate, Tambol Banchang, Amphur Banchang, Rayong Thailand  
21130  
P/O : 4515619685  
Project Name : Water Testing  
Project Location : AIE\_PG Plant

Lot ID: 2496231  
Date Received : Sep 04, 2024  
Date Reported : Sep 12, 2024  
Report Number : 3108878-2

Page 1 of 1

Sample Number 2496231-1  
Sampled Date Sep 04, 2024 11:05 AM  
Sample Description Wastewater  
Location PG Process  
Date Analysis Commenced Sep 05, 2024  
Condition of Sample Contained in one amber glass bottle, two glass vials and four plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Method	Testing Location
Water Testing						
Propylene Glycol	mg/L	-	1.0	8998	In-house method based on United States Environmental Protection Agency, EPA Method 8015 B	Bangkok
Total Organic Carbon	mg/L	0.01	0.1	6017	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 5310 B	Bangkok

Sampling By : Surawit Narapong , Pattarapol Sawangjaitam

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

Approved by

Siriluk P.

Siriluk Bunnak  
Section Head

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## Analysis / Test Report

Client : Dow Chemical Thailand Ltd.  
10 Moo 2, Asia Industrial Estate, Tambol Banchang, Amphur Banchang, Rayong Thailand  
21130  
P/O : 4515619685  
Project Name : Water Testing  
Project Location : AIE\_PG Plant



TESTING  
No.0042

Lot ID: 24107097  
Date Received : Oct 03, 2024  
Date Reported : Oct 11, 2024  
Report Number : 3135076-1

Page 1 of 1

Sample Number	24107097-1					
Sampled Date	Oct 03, 2024 10:35 AM					
Sample Description	Wastewater					
Location	PG Process					
Date Analysis Commenced	Oct 03, 2024					
Condition of Sample	Contained in two glass vials, two amber glass bottles and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)					

Analyte	Unit	LOD	LOQ (LOR)	Result	Method	Testing Location
Water Testing						
BOD (5 days at 20 Degree C)	mg/L	-	2.0	1485	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	24689	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Rayong
Oil & Grease	mg/L	-	3	<3	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Rayong
pH at 25 degree C		-	-	3.9	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (6)	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	<5	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Rayong

Sampling By : Wanlop Hunchainaow ทะเบียนเลขที่ 3-323-3-0038 , Pattarapol Sawangjaitam ทะเบียนเลขที่ 3-204-3-0002

Remark :  
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Technical Management

Photchana S.

Photchana Seeda  
Scientist (4)  
ทะเบียนเลขที่ 3-323-3-0028

Approved by

Dej Changchon

Senior Manager  
ทะเบียนเลขที่ 3-323-3-0001

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## Analysis / Test Report

Client : Dow Chemical Thailand Ltd.  
10 Moo 2, Asia Industrial Estate, Tambol Banchang, Amphur Banchang, Rayong Thailand  
21130  
P/O : 4515619685  
Project Name : Water Testing  
Project Location : AIE\_PG Plant

Lot ID: 24107097  
Date Received : Oct 03, 2024  
Date Reported : Oct 11, 2024  
Report Number : 3135076-2

Page 1 of 1

Sample Number	24107097-1					
Sampled Date	Oct 03, 2024 10:35 AM					
Sample Description	Wastewater					
Location	PG Process					
Date Analysis Commenced	Oct 04, 2024					
Condition of Sample	Contained in two glass vials, two amber glass bottles and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)					

Analyte	Unit	LOD	LOQ (LOR)	Result	Method	Testing Location
Water Testing						
Propylene Glycol	mg/L	-	1.0	8334	In-house method based on United States Environmental Protection Agency, EPA Method 8015 B	Bangkok
Total Organic Carbon	mg/L	0.01	0.1	5343	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5310 B	Bangkok

Sampling By : Wanlop Hunchainaow , Pattarapol Sawangjaitam

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

Approved by

Nant Somb

Nanthawadee Somboon  
Specialist 2

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## Analysis / Test Report

Client : Dow Chemical Thailand Ltd.  
10 Moo 2, Asia Industrial Estate, Tambol Banchang, Amphur Banchang, Rayong Thailand  
21130  
P/O : 4515619685  
Project Name : Water Testing  
Project Location : AIE\_PG Plant



TESTING  
No.0042

Lot ID: 24122892  
Date Received : Nov 06, 2024  
Date Reported : Nov 14, 2024  
Report Number : 3166107-1

Page 1 of 1

Sample Number	24122892-1					
Sampled Date	Nov 06, 2024 11:00 AM					
Sample Description	Wastewater					
Location	PG Process					
Date Analysis Commenced	Nov 06, 2024					
Condition of Sample	Contained in two glass vials, three amber glass bottles and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)					
Analyte	Unit	LOD	LOQ (LOR)	Result	Method	Testing Location
Water Testing						
BOD (5 days at 20 Degree C)	mg/L	-	2.0	6951	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Rayong
COD *	mg/L	1.5	25	27902	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Rayong
Oil & Grease	mg/L	-	3	<3	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Rayong
pH at 25 degree C *	-	-	-	3.7	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	<5	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Rayong

Sampling By : Wanlop Hunchainaow ทะเบียนเลขที่ 7-323-จ-0038 , Thanasoun Namakunna ทะเบียนเลขที่ 7-204-จ-0101

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

Technical Management

Photchana S.

Photchana Seeda  
Scientist (4)  
ทะเบียนเลขที่ 7-323-จ-0028

Approved by

Dej Changchon

Dej Changchon  
Senior Manager  
ทะเบียนเลขที่ 7-323-จ-0001

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## Analysis / Test Report

Client : Dow Chemical Thailand Ltd.  
10 Moo 2, Asia Industrial Estate, Tambol Banchang, Amphur Banchang, Rayong Thailand  
21130  
P/O : 4515619685  
Project Name : Water Testing  
Project Location : AIE\_PG Plant

Lot ID: 24122892  
Date Received : Nov 06, 2024  
Date Reported : Nov 14, 2024  
Report Number : 3166107-2

Page 1 of 1

Sample Number	24122892-1					
Sampled Date	Nov 06, 2024 11:00 AM					
Sample Description	Wastewater					
Location	PG Process					
Date Analysis Commenced	Nov 07, 2024					
Condition of Sample	Contained in two glass vials, three amber glass bottles and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)					
Analyte	Unit	LOD	LOQ (LOR)	Result	Method	Testing Location
Water Testing						
Propylene Glycol	mg/L	-	1.0	6769	In-house method based on United States Environmental Protection Agency, EPA Method 8015 B	Bangkok
Total Organic Carbon	mg/L	0.01	0.1	5467	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5310 B	Bangkok

Sampling By : Wanlop Hunchainaow , Thanasoun Namakunna

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

Approved by

Siriluk P.

Siriluk Bunnak  
Section Head

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## Analysis / Test Report

Client : Dow Chemical Thailand Ltd.

10 Moo 2, Asia Industrial Estate, Tambol Banchang, Amphur Banchang, Rayong Thailand  
21130

P/O : 4515619685

Project Name : Water Testing

Project Location : AIE\_PG Plant

Lot ID: 24122893

Date Received : Dec 04, 2024

Date Reported : Dec 13, 2024

Report Number : 3192197-1



TESTING  
No.0042

Page 1 of 1

Sample Number	24122893-1					
Sampled Date	Dec 04, 2024 11:00 AM					
Sample Description	Wastewater					
Location	PG Process					
Date Analysis Commenced	Dec 04, 2024					
Condition of Sample	Contained in two glass vials, three amber glass bottles and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)					

Analyte	Unit	LOD	LOQ (LOR)	Result	Method	Testing Location
Water Testing						
BOD (5 days at 20 Degree C)	mg/L	-	2.0	3009	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Rayong
COD *	mg/L	1.5	25	25292	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Rayong
Oil & Grease	mg/L	-	3	<3	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Rayong
pH at 25 degree C		-	-	3.8	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	<5	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Rayong

Sampling By : Wanlop Hunchainaow ทะเบียนเลขที่ ร-323-จ-0038 , Pattarapol Sawangjaitam ทะเบียนเลขที่ ร-204-จ-0002

### Remark :

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

Technical Management

**Photchana S.**

Photchana Seeda

Scientist (4)

ทะเบียนเลขที่ ร-323-จ-0028

Approved by

**Dej Changchon**

Dej Changchon

Senior Manager

ทะเบียนเลขที่ ร-323-จ-0001

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## Analysis / Test Report

Client : Dow Chemical Thailand Ltd.

10 Moo 2, Asia Industrial Estate, Tambol Banchang, Amphur Banchang, Rayong Thailand

21130

P/O : 4515619685

Project Name : Water Testing

Project Location : AIE\_PG Plant

Lot ID: 24122893

Date Received : Dec 04, 2024

Date Reported : Dec 13, 2024

Report Number : 3192197-2

Page 1 of 1

Sample Number	24122893-1					
Sampled Date	Dec 04, 2024 11:00 AM					
Sample Description	Wastewater					
Location	PG Process					
Date Analysis Commenced	Dec 06, 2024					
Condition of Sample	Contained in two glass vials, three amber glass bottles and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)					

Analyte	Unit	LOD	LOQ (LOR)	Result	Method	Testing Location
Water Testing						
Propylene Glycol	mg/L	-	1.0	5585	In-house method based on United States Environmental Protection Agency, EPA Method 8015 B	Bangkok
Total Organic Carbon	mg/L	0.01	0.1	7200	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5310 B	Bangkok

Sampling By : Wanlop Hunchainaow , Pattarapol Sawangjaitam

### Remark :

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

Approved by

**Siriluk P.**

Siriluk Bunnak

Section Head

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## ภาคผนวก ค-5

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ผลการตรวจวิเคราะห์คุณภาพน้ำทิ้งหลังผ่านการบำบัด  
จากระบบบำบัดน้ำเสียส่วนกลาง



## Analysis / Test Report

Client : Dow Chemical Thailand Ltd.  
10 Moo 2, Asia Industrial Estate, Tambol Banchang, Amphur Banchang, Rayong Thailand  
21130  
P/O : 4515619685  
Project Name : Water Testing  
Project Location : AIE\_PG Plant

Lot ID: 2472420  
Date Received : Jul 09, 2024  
Date Reported : Jul 17, 2024  
Report Number : 3058199-1

Page 1 of 1

Sample Number 2472420-2  
Sampled Date Jul 09, 2024 3:10 PM  
Sample Description Wastewater  
Location Effluent PG  
Date Analysis Commenced Jul 12, 2024  
Condition of Sample Contained in one amber glass bottle, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Method	Testing Location
Water Testing						
Propylene Glycol	mg/L	-	1.0	<1.0	In-house method based on United States Environmental Protection Agency, EPA Method 8015 B	Bangkok

Sampling By : Surawit Narapong , Pattarapol Sawangjaitam

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

Approved by

Siriluk P.

Siriluk Bunnak  
Section Head

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## Analysis / Test Report

Client : Dow Chemical Thailand Ltd.  
10 Moo 2, Asia Industrial Estate, Tambol Banchang, Amphur Banchang, Rayong Thailand  
21130  
P/O : 4515619685  
Project Name : Water Testing  
Project Location : AIE\_PG Plant

Lot ID: 2485587  
Date Received : Aug 07, 2024  
Date Reported : Aug 16, 2024  
Report Number : 3083633-1

Page 1 of 1

Sample Number 2485587-2  
Sampled Date Aug 07, 2024 1:45 PM  
Sample Description Wastewater  
Location Effluent PG  
Date Analysis Commenced Aug 09, 2024  
Condition of Sample Contained in one amber glass bottle, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Method	Testing Location
Water Testing						
Propylene Glycol	mg/L	-	1.0	<1.0	In-house method based on United States Environmental Protection Agency, EPA Method 8015 B	Bangkok

Sampling By : Wanlop Hunchalao , Pattarapol Sawangjaitam

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

Approved by

Siriluk P.

Siriluk Bunnak  
Section Head

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## Analysis / Test Report

Client : Dow Chemical Thailand Ltd.  
10 Moo 2, Asia Industrial Estate, Tambol Banchang, Amphur Banchang, Rayong Thailand  
21130  
P/O : 4515619685  
Project Name : Water Testing  
Project Location : AIE\_PG Plant

Lot ID: 2496231  
Date Received : Sep 04, 2024  
Date Reported : Sep 12, 2024  
Report Number : 3108879-1

Page 1 of 1

Sample Number 2496231-2  
Sampled Date Sep 04, 2024 2:10 PM  
Sample Description Wastewater  
Location Effluent PG  
Date Analysis Commenced Sep 05, 2024  
Condition of Sample Contained in one amber glass bottle, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Method	Testing Location
Water Testing						
Propylene Glycol	mg/L	-	1.0	<1.0	In-house method based on United States Environmental Protection Agency, EPA Method 8015 B	Bangkok

Sampling By : Surawit Narapong , Pattarapol Sawangjaitam

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

Approved by

Siriluk P.

Siriluk Bunnak  
Section Head

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## Analysis / Test Report

Client : Dow Chemical Thailand Ltd.  
10 Moo 2, Asia Industrial Estate, Tambol Banchang, Amphur Banchang, Rayong Thailand  
21130  
P/O : 4515619685  
Project Name : Water Testing  
Project Location : AIE\_PG Plant

Lot ID: 24107097  
Date Received : Oct 03, 2024  
Date Reported : Oct 11, 2024  
Report Number : 3135077-1

Page 1 of 1

Sample Number 24107097-2  
Sampled Date Oct 03, 2024 1:58 PM  
Sample Description Wastewater  
Location Effluent PG  
Date Analysis Commenced Oct 04, 2024  
Condition of Sample Contained in one amber glass bottle, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Method	Testing Location
Water Testing						
Propylene Glycol	mg/L	-	1.0	<1.0	In-house method based on United States Environmental Protection Agency, EPA Method 8015 B	Bangkok

Sampling By : Wanlop Hunchainaow , Pattarapol Sawangjaitam

Remark :  
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Approved by

Nant Somb

Nanthawadee Somboon  
Specialist 2

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## Analysis / Test Report

Client : Dow Chemical Thailand Ltd.

10 Moo 2, Asia Industrial Estate, Tambol Banchang, Amphur Banchang, Rayong Thailand  
21130

P/O : 4515619685

Project Name : Water Testing

Project Location : AIE\_PG Plant

Lot ID: 24122892

Date Received : Nov 06, 2024

Date Reported : Nov 14, 2024

Report Number : 3166108-1

Page 1 of 1

Sample Number 24122892-2  
Sampled Date Nov 06, 2024 2:08 PM  
Sample Description Wastewater  
Location Effluent PG  
Date Analysis Commenced Nov 07, 2024  
Condition of Sample Contained in one amber glass bottle, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Method	Testing Location
Water Testing						
Propylene Glycol	mg/L	-	1.0	<1.0	In-house method based on United States Environmental Protection Agency, EPA Method 8015 B	Bangkok

Sampling By : Wanlop Hunchainaow , Thanasoun Namakunna

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

Approved by

Siriluk P.

Siriluk Bunnak  
Section Head

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## Analysis / Test Report

Client : Dow Chemical Thailand Ltd.

10 Moo 2, Asia Industrial Estate, Tambol Banchang, Amphur Banchang, Rayong Thailand  
21130

P/O : 4515619685

Project Name : Water Testing

Project Location : AIE\_PG Plant

Lot ID: 24122893

Date Received : Dec 04, 2024

Date Reported : Dec 13, 2024

Report Number : 3192198-1

Page 1 of 1

Sample Number 24122893-2  
Sampled Date Dec 04, 2024 2:00 PM  
Sample Description Wastewater  
Location Effluent PG  
Date Analysis Commenced Dec 12, 2024  
Condition of Sample Contained in one amber glass bottle, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Method	Testing Location
Water Testing						
Propylene Glycol	mg/L	-	1.0	<1.0	In-house method based on United States Environmental Protection Agency, EPA Method 8015 B	Bangkok

Sampling By : Wanlop Hunchainaow , Pattarapol Sawangjaitam

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

Approved by

Siriluk P.

Siriluk Bunnak  
Section Head

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## ภาคผนวก ค-6

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## Analysis / Test Report

Client : Dow Chemical Thailand Ltd.

10 Moo 2, Asia Industrial Estate, Tambol Banchang, Amphur Banchang, Rayong Thailand  
21130

P/O : 4515619685

Project Name : Water Testing

Project Location : AIE\_PG Plant



TESTING

No.0042

Lot ID: 2472420

Date Received : Jul 09, 2024

Date Reported : Jul 17, 2024

Report Number : 3058200-1

Page 1 of 1

Sample Number	2472420-3
Sampled Date	Jul 09, 2024 2:39 PM
Sample Description	Blowdown Water
Location	PG Cooling Tower
Date Analysis Commenced	Jul 09, 2024
Condition of Sample	Contained in one amber glass bottle and two 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>							
COD	mg/L	1.5	25	49	≤120	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Rayong
Oil & Grease	mg/L	-	3	<3	≤5	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
pH at 25 degree C	-	-	-	7.7	5.5-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	1160	≤3000	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	7	≤50	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

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

Sampling By : Surawit Narong ทรัพย์สินเลขที่ ร-323-ก-0011 , Pattarapol Sawangjaitam ทรัพย์สินเลขที่ ร-204-ก-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

Photchana S.

Photchana Seeda

Scientist (4)

ทรัพย์สินเลขที่ ร-323-ก-9446

Approved by

Dej Changchon

Dej Changchon

Senior Manager

ทรัพย์สินเลขที่ ร-323-ก-9442

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## Analysis / Test Report

Client : Dow Chemical Thailand Ltd.

10 Moo 2, Asia Industrial Estate, Tambol Banchang, Amphur Banchang, Rayong Thailand  
21130

P/O : 4515619685

Project Name : Water Testing

Project Location : AIE\_PG Plant



TESTING

No.0042

Lot ID: 2485587

Date Received : Aug 07, 2024

Date Reported : Aug 15, 2024

Report Number : 3083634-1

Page 1 of 1

Sample Number	2485587-3
Sampled Date	Aug 07, 2024 10:58 AM
Sample Description	Blowdown Water
Location	PG Cooling Tower
Date Analysis Commenced	Aug 07, 2024
Condition of Sample	Contained in two amber glass bottles and two 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>							
COD	mg/L	1.5	25	49	≤120	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Rayong
Oil & Grease	mg/L	-	3	<3	≤5	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
pH at 25 degree C	-	-	-	7.7	5.5-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	984	≤3000	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	7	≤50	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

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

Sampling By : Wanlop Hunchainaw ทรัพย์สินเลขที่ ร-323-ก-9457 , Pattarapol Sawangjaitam ทรัพย์สินเลขที่ ร-204-ก-0002

Remark :

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

Technical Management

Photchana S.

Photchana Seeda

Scientist (4)

ทรัพย์สินเลขที่ ร-323-ก-9446

Approved by

Dej Changchon

Dej Changchon

Senior Manager

ทรัพย์สินเลขที่ ร-323-ก-9442

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## Analysis / Test Report

Client : Dow Chemical Thailand Ltd.

10 Moo 2, Asia Industrial Estate, Tambol Banchang, Amphur Banchang, Rayong Thailand  
21130

P/O : 4515619685

Project Name : Water Testing

Project Location : AIE\_PG Plant



TESTING  
No.0042

Lot ID: 2496231

Date Received : Sep 04, 2024

Date Reported : Sep 12, 2024

Report Number : 3108880-1

Page 1 of 1

Sample Number	2496231-3						
Sampled Date	Sep 04, 2024 10:58 AM						
Sample Description	Blowdown Water						
Location	PG Cooling Tower						
Date Analysis Commenced	Sep 04, 2024						
Condition of Sample	Contained in one amber glass bottle and two 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>							
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
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
Total Dissolved Solids Dried at 180 degree C	mg/L	*	5	1024	≤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

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

Sampling By : Surawit Narapong ทะเบียนเลขที่ 7-323-3-0011, Pattarapol Sawangjaitam ทะเบียนเลขที่ 7-204-3-0002

Remark :

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Technical Management

**Photchana S.**

Photchana Seeda

Scientist (4)

ทะเบียนเลขที่ 7-323-3-0028

Approved by

**D. Chuan**

Dej Changchon

Senior Manager

ทะเบียนเลขที่ 7-323-3-0001

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## Analysis / Test Report

Client : Dow Chemical Thailand Ltd.

10 Moo 2, Asia Industrial Estate, Tambol Banchang, Amphur Banchang, Rayong Thailand  
21130

P/O : 4515619685

Project Name : Water Testing

Project Location : AIE\_PG Plant



TESTING  
No.0042

Lot ID: 24107097

Date Received : Oct 03, 2024

Date Reported : Oct 11, 2024

Report Number : 3135078-1

Page 1 of 1

Sample Number	24107097-3						
Sampled Date	Oct 03, 2024 10:45 AM						
Sample Description	Blowdown Water						
Location	PG Cooling Tower						
Date Analysis Commenced	Oct 03, 2024						
Condition of Sample	Contained in two amber glass bottles and two 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>							
COD	mg/L	1.5	25	44	≤120	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Rayong
Oil & Grease	mg/L	*	3	<3	≤5	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Rayong
pH at 25 degree C		*	*	7.7	5.5-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	*	5	1020	≤3000	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	*	5	10	≤50	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Rayong

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

Sampling By : Wanlop Hunchanaow ทะเบียนเลขที่ 7-323-3-0038, Pattarapol Sawangjaitam ทะเบียนเลขที่ 7-204-3-0002

Remark :

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Technical Management

**Photchana S.**

Photchana Seeda

Scientist (4)

ทะเบียนเลขที่ 7-323-3-0028

Approved by

**D. Chuan**

Dej Changchon

Senior Manager

ทะเบียนเลขที่ 7-323-3-0001

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## Analysis / Test Report

Client : Dow Chemical Thailand Ltd.  
10 Moo 2, Asia Industrial Estate, Tambol Banchang, Amphur Banchang, Rayong Thailand  
21130  
P/O : 4515619685  
Project Name : Water Testing  
Project Location : AIE\_PG Plant



TESTING  
No.0042  
Lot ID: 24122892  
Date Received : Nov 06, 2024  
Date Reported : Nov 14, 2024  
Report Number : 3166109-1

Page 1 of 1

Sample Number	24122892-3
Sampled Date	Nov 06, 2024 10:55 AM
Sample Description	Blowdown Water
Location	PG Cooling Tower
Date Analysis Commenced	Nov 06, 2024
Condition of Sample	Contained in one amber glass bottle and two 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>							
COD	mg/L	1.5	25	56	≤120	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Rayong
Oil & Grease	mg/L	-	3	<3	≤5	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Rayong
pH at 25 degree C		-	-	7.6	5.5-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	1230	≤3000	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	7	≤50	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Rayong

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

Sampling By : Wanlop Hunchainaow ทะเบียนเลขที่ ร-323-จ-0038 , Thanasoun Namakunna ทะเบียนเลขที่ ร-204-จ-0101

### Remark :

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Technical Management

Photchana S.

Photchana Seeda  
Scientist (4)  
ทะเบียนเลขที่ ร-323-จ-0028

Approved by

D. Chuan

Dej Changchon  
Senior Manager  
ทะเบียนเลขที่ ร-323-จ-0001

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## Analysis / Test Report

Client : Dow Chemical Thailand Ltd.  
10 Moo 2, Asia Industrial Estate, Tambol Banchang, Amphur Banchang, Rayong Thailand  
21130  
P/O : 4515619685  
Project Name : Water Testing  
Project Location : AIE\_PG Plant



TESTING  
No.0042  
Lot ID: 24122893  
Date Received : Dec 04, 2024  
Date Reported : Dec 13, 2024  
Report Number : 3192199-1

Page 1 of 1

Sample Number	24122893-3
Sampled Date	Dec 04, 2024 10:50 AM
Sample Description	Blowdown Water
Location	PG Cooling Tower
Date Analysis Commenced	Dec 04, 2024
Condition of Sample	Contained in one amber glass bottle and two 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>							
COD	mg/L	1.5	25	51	≤120	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Rayong
Oil & Grease	mg/L	-	3	<3	≤5	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, 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, 24th ed., 2023, part 4500 - H (B)	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	1056	≤3000	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	6	≤50	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Rayong

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

Sampling By : Wanlop Hunchainaow ทะเบียนเลขที่ ร-323-จ-0038 , Pattarapol Sawangjaitam ทะเบียนเลขที่ ร-204-จ-0002

### Remark :

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Technical Management

Photchana S.

Photchana Seeda  
Scientist (4)  
ทะเบียนเลขที่ ร-323-จ-0028

Approved by

D. Chuan

Dej Changchon  
Senior Manager  
ทะเบียนเลขที่ ร-323-จ-0001

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## ภาคผนวก ค-7

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ผลการตรวจวิเคราะห์คุณภาพน้ำใต้ดิน



## Analysis / Test Report

**Client :** Dow Chemical Thailand Ltd.  
10 Moo 2, Asia Industrial Estate, Tambol Banchang, Amphur Banchang, Rayong Thailand  
21130  
**P/O :** 4515619917  
**Project Name :** Environmental Quality Monitoring  
**Project Location:** AIE\_PG Plant

**Lot ID: 2485448**  
**Date Received :** Aug 22, 2024  
**Date Reported :** Sep 04, 2024  
**Report Number :** 3099917-2

Page 1 of 1

**Sample Number** 2485448-2  
**Sampled Date** Aug 22, 2024 11:50 AM  
**Sample Description** Groundwater  
**Location** MW 2  
**Date Analysis Commenced** Aug 23, 2024  
**Condition of Sample** Contained in one amber glass bottle and one plastic bottle, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Organic Compounds</b>							
Propylene oxide	mg/L	-	10	<10	No Standard	In-house method based on United States Environmental Protection Agency, EPA Method 8015 B	Bangkok

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

**Sampling By :** Surawit Narapong , Pattarapol Sawangjalatam

**Remark :**  
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Approved by

Siriluk P.

Siriluk Bunnak  
Section Head

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## Analysis / Test Report

**Client :** Dow Chemical Thailand Ltd.  
10 Moo 2, Asia Industrial Estate, Tambol Banchang, Amphur Banchang, Rayong Thailand  
21130  
**P/O :** 4515619917  
**Project Name :** Environmental Quality Monitoring  
**Project Location:** AIE\_PG Plant

**Lot ID: 2485453**  
**Date Received :** Aug 22, 2024  
**Date Reported :** Sep 03, 2024  
**Report Number :** 3099928-2

Page 1 of 1

**Sample Number** 2485453-2  
**Sampled Date** Aug 22, 2024 12:23 PM  
**Sample Description** Groundwater  
**Location** MW 4  
**Date Analysis Commenced** Aug 23, 2024  
**Condition of Sample** Contained in one amber glass bottle and one plastic bottle, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Organic Compounds</b>							
Propylene oxide	mg/L	-	10	<10	No Standard	In-house method based on United States Environmental Protection Agency, EPA Method 8015 B	Bangkok

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

**Sampling By :** Surawit Narapong , Pattarapol Sawangjalatam

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Siriluk Bunnak  
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## Analysis / Test Report

Client : Dow Chemical Thailand Ltd.

10 Moo 2, Asia Industrial Estate, Tambol Banchang, Amphur Banchang, Rayong Thailand

21130

P/O : 4515619917

Project Name : Environmental Quality Monitoring

Project Location : AIE\_PG Plant

Lot ID: 2485461

Date Received : Aug 22, 2024

Date Reported : Sep 03, 2024

Report Number : 3099943-2

Page 1 of 1

Sample Number	2485461-2						
Sampled Date	Aug 22, 2024 10:40 AM						
Sample Description	Groundwater						
Location	MW 5						
Date Analysis Commenced	Aug 23, 2024						
Condition of Sample	Contained in one amber glass bottle and one plastic bottle, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Organic Compounds</b>							
Propylene oxide	mg/L	-	10	<10	No Standard	In-house method based on United States Environmental Protection Agency, EPA Method 8015 B	Bangkok

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

**Sampling By :** Sansoen Khuiyoksul , Thanasoun Namakunna

Remark :

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Siriluk Bunnak  
Section Head

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## ภาคผนวก ค-8

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ผลการตรวจวิเคราะห์คุณภาพดิน



## Analysis / Test Report

Client : Dow Chemical Thailand Ltd.  
10 Moo 2, Asia Industrial Estate, Tambol Banchang, Amphur Banchang, Rayong Thailand  
21130  
P/O : 4515619934  
Project Name : Environmental Quality Monitoring  
Project Location: AIE\_PG Plant

Lot ID: 2469000  
Date Received : Jun 19, 2024  
Date Reported : Jul 17, 2024  
Report Number : 3038755-3

Page 1 of 1

Sample Number	2469000-1						
Sampled Date	Jun 19, 2024 2:50 PM						
Sample Description	Soil						
Location	MW 2						
Date Analysis Commenced	Jun 20, 2024						
Condition of Sample	Packed in one plastic bag and one glass bottle, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Organic Compounds</b>							
Propylene Oxide	mg/kg	-	20	<20	No Standard	In-house method based on United States Environmental Protection Agency, EPA Method 5035 and GC/FID	Bangkok

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

**Note :** This Analysis test report is reissued to supersede report No.3038755-2, Date Reported : Jun 27, 2024 due to revise analytical information.

**Sampling By :** Pattarapol Sawangjaitam

**Remark :**  
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Approved by

*Nant Somb*

Nanthawadee Somboon  
Specialist 2

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## Analysis / Test Report

Client : Dow Chemical Thailand Ltd.  
10 Moo 2, Asia Industrial Estate, Tambol Banchang, Amphur Banchang, Rayong Thailand  
21130  
P/O : 4515619934  
Project Name : Environmental Quality Monitoring  
Project Location: AIE\_PG Plant

Lot ID: 2469000  
Date Received : Jun 19, 2024  
Date Reported : Jul 17, 2024  
Report Number : 3038756-3

Page 1 of 1

Sample Number	2469000-2						
Sampled Date	Jun 19, 2024 11:30 AM						
Sample Description	Soil						
Location	MW 4						
Date Analysis Commenced	Jun 20, 2024						
Condition of Sample	Packed in one plastic bag and one glass bottle, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Organic Compounds</b>							
Propylene Oxide	mg/kg	-	20	<20	No Standard	In-house method based on United States Environmental Protection Agency, EPA Method 5035 and GC/FID	Bangkok

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

**Note :** This Analysis test report is reissued to supersede report No.3038756-2, Date Reported : Jun 27, 2024 due to revise analytical information.

**Sampling By :** Pattarapol Sawangjaitam

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

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

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## Analysis / Test Report

Client : Dow Chemical Thailand Ltd.

10 Moo 2, Asia Industrial Estate, Tambol Banchang, Amphur Banchang, Rayong Thailand  
21130

P/O : 4515619934

Project Name : Environmental Quality Monitoring

Project Location : AIE\_PG Plant

Lot ID: 2469000

Date Received : Jun 19, 2024

Date Reported : Jul 17, 2024

Report Number : 3038757-3

Page 1 of 1

Sample Number	2469000-3						
Sampled Date	Jun 19, 2024 10:45 AM						
Sample Description	Soil						
Location	MW 5						
Date Analysis Commenced	Jun 20, 2024						
Condition of Sample	Packed In one plastic bag and one glass bottle, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Organic Compounds							
Propylene Oxide	mg/kg	-	20	<20	No Standard	In-house method based on United States Environmental Protection Agency, EPA Method 5035 and GC/FID	Bangkok

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

**Note :** This Analysis test report is reissued to supersede report No.3038757-2, Date Reported : Jun 27, 2024 due to revise analytical Information.

**Sampling By :** Pattarapol Sawangjaitam

Remark :

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

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

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## ภาคผนวก ค-9

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ผลการตรวจวัดความร้อนในสถานที่ปฏิบัติงาน



## Analysis / Test Report

**Client :** Dow Chemical Thailand Ltd.

10 Moo 2, Asia Industrial Estate, Tambol Banchang, Amphur Banchang, Rayong  
Thailand 21130

**P/O :** 4515619659

**Project Name :** Environmental Quality Monitoring

**Project Location :** AIE\_PG Plant

**Lot ID: 2429578**

Date Received : Apr 10, 2024

Date Reported : Apr 12, 2024

Report Number: 2937812-1

Page 1 of 1

**Sample Number** 2429578-1  
**Parameter** Heat Stress (Sampling Time : 09.30 AM - 11.30 AM)  
**Measurement Date** Apr 10, 2024  
**Measurement by** Natthapon Jiengwareewong  
**Location** ปฏิบัติงาน 1 พื้นที่ (ชื่อ-นามสกุล ผู้ปฏิบัติงาน : - แผนก : -)

Location	Duration (min)	WBGT (°C)	NWB (°C)	GT (°C)	DB (°C)
บริเวณถังปฏิกริยา	120	32.6	29.0	43.0	36.6
Average (WBGT)		32.6			
Guideline WBGT (°C)		34.0			

**Reference Method :** Wet Bulb Globe Temperature

**Guideline:**

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

**Technical Management**

Supot Salamteh  
Section Head

**Approved by**

Wichan Choonharat  
Assistant Manager

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## ภาคผนวก ค-10

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ผลการตรวจวัดระดับเสียงในสถานประกอบการ (Leq 12 hrs.)



## Analysis / Test Report

**Client :** Dow Chemical Thailand Ltd.

10 Moo 2, Asia Industrial Estate, Tambol Banchang, Amphur Banchang, Rayong Thailand 21130

**P/O :** 4515619659

**Project Name :** Environmental Quality Monitoring

**Project Location :** AIE\_PG Plant

**Lot ID: 24107074**

Date Received : Oct 08, 2024

Date Reported : Oct 11, 2024

Report Number: 3136238-1

Page 1 of 1

**Sample Number** 24107074-1  
**Parameter** Noise (Leq 12 hrs.)  
**Location** บริเวณพื้นที่ส่งปฏิกิริยา  
**Measurement Date** Oct 07, 2024  
**Measurement by** Saksit Phaisanphisut

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
10:00 AM - 11:00 AM	74.1	79.7	73.9
11:00 AM - 12:00 PM	76.2	96.6	74.0
12:00 PM - 01:00 PM	74.2	80.7	74.0
01:00 PM - 02:00 PM	74.2	77.0	74.0
02:00 PM - 03:00 PM	73.8	74.7	73.7
03:00 PM - 04:00 PM	73.8	74.4	73.7
04:00 PM - 05:00 PM	74.1	80.4	74.0
05:00 PM - 06:00 PM	74.2	74.7	74.1
06:00 PM - 07:00 PM	74.1	74.7	74.0
07:00 PM - 08:00 PM	74.2	74.6	74.1
08:00 PM - 09:00 PM	74.3	74.7	74.2
09:00 PM - 10:00 PM	74.3	75.3	74.2
Leq Average 12 hrs. (dB(A))	74.3		
Lmax (dB(A))		96.6	
Standard (dB(A))	87	140	
Reference Method : ISO1996-1 and 1996-2			
Standard : ประกาศกระทรวงอุตสาหกรรม เรื่อง มาตรการคุ้มครองความปลอดภัย ในการประกอบกิจการโรงงานเกี่ยวกับสภาวะแวดล้อมในการทำงาน พ.ศ.๒๕๕๖			

**Technical Management**

*Chontichak*

Chonticha Subongkoch  
Scientist (3)

**Approved by**

*Supot S*

Supot Salamteh  
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## Analysis / Test Report

**Client :** Dow Chemical Thailand Ltd.

10 Moo 2, Asia Industrial Estate, Tambol Banchang, Amphur Banchang, Rayong Thailand 21130

**P/O :** 4515619659

**Project Name :** Environmental Quality Monitoring

**Project Location :** AIE\_PG Plant

**Lot ID: 24107074**

Date Received : Oct 08, 2024

Date Reported : Oct 11, 2024

Report Number: 3136239-1

Page 1 of 1

**Sample Number** 24107074-2  
**Parameter** Noise (Leq 12 hrs.)  
**Location** บริเวณหอหล่อเย็น  
**Measurement Date** Oct 07, 2024  
**Measurement by** Saksit Phaisanphisut

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
10:10 AM - 11:10 AM	81.6	83.4	81.5
11:10 AM - 12:10 PM	82.1	84.1	82.0
12:10 PM - 01:10 PM	81.8	88.6	81.6
01:10 PM - 02:10 PM	81.8	82.8	81.7
02:10 PM - 03:10 PM	81.3	82.1	81.1
03:10 PM - 04:10 PM	81.4	82.0	81.3
04:10 PM - 05:10 PM	81.6	83.0	81.5
05:10 PM - 06:10 PM	81.8	82.4	81.7
06:10 PM - 07:10 PM	81.8	82.5	81.7
07:10 PM - 08:10 PM	82.0	82.6	81.9
08:10 PM - 09:10 PM	82.1	82.9	82.0
09:10 PM - 10:10 PM	82.1	83.5	82.0
Leq Average 12 hrs. (dB(A))	81.8		
Lmax (dB(A))		88.6	
Standard (dB(A))	87	140	
Reference Method : ISO1996-1 and 1996-2			
Standard : ประกาศกระทรวงอุตสาหกรรม เรื่อง มาตรการคุ้มครองความปลอดภัย ในการประกอบกิจการโรงงานเกี่ยวกับสภาวะแวดล้อมในการทำงาน พ.ศ.๒๕๔๖			

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## ภาคผนวก ค-11

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ผลการตรวจวัดคุณภาพอากาศบริเวณการทำงาน  
(แบบติดตัวบุคคล)



## Analysis / Test Report

**Report to :** Dow Chemical Thailand Ltd.  
10/4 Moo 2, Asia Industrial Estate, Tambol  
Banchang, Amphur Banchang, Rayong  
Thailand 21130  
**Attn :** Komgrit Chaladtham  
**Phone :** 0-3892-5614  
**Fax :** -  
**Email :** CKomgrit@dow.com

**Project Name :** Environmental Quality Monitoring

**Location :** AIE\_PG Plant

**P/O :**

**Receipt No :**

**Cc. Email :** PPChaiyadej@dow.com

**Lot ID: 203818**

Date Received : Jan 13, 2020

Date Reported : Jan 17, 2020

Report Number: 1561998-1

Sampling by : Jaradrawee Sriruksa

Page 1 of 1

**Reference Number** 203818-1  
**Sampling Date** Jan 13, 2020  
**Sample Description** Air Quality  
**Location** บริเวณพื้นที่ส่งปฏิกิริยา  
**Personal Sampling** คุณกิตติพงษ์ เพชรสังหนู  
**Condition of Sample** Drawn into one sorbent tube, refrigerated  
**Date of Analysis** Jan 14, 2020  
**Barometric Pressure** 757 mmHg  
**Atmospheric Temperature** 30.0 °C

Analyte	Sampling time	Result	Guideline Limit	Unit	Method	Guideline
<b>Air Testing</b>						
Propylene Oxide	09.30 AM - 11.30 AM	<0.10	100	ppm	NIOSH (1994), 1612	MOL

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

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