

ภาคผนวก ค

ใบรับรองผลการตรวจวัดคุณภาพสิ่งแวดล้อม

ภาคผนวก ค-1

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 : 4516938776
Project Name : Environmental Quality Monitoring
Project Location : AIE_PG Plant

Lot ID: 2561538

Date Received : Jul 03, 2025
Date Reported : Jul 12, 2025
Report Number : 3345168-1

Page 1 of 1

Sample Number 2561538-1
Sampled Date Jul 03, 2025
Sample Description Air Quality
Location บริเวณพื้นที่ตั้งปฏิกิริยา
Date Analysis Commenced Jul 04, 2025
Condition of Sample Drawn into one sorbent tube, refrigerated
Barometric Pressure 757 mmHg
Atmospheric Temperature 29.8 °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 : Warawut Pubpa

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. The report shall not be reproduced except in full without the written approval of the laboratory.



Analysis / Test Report

Client : Dow Chemical Thailand Ltd.

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

P/O : 4516938776

Project Name : Environmental Quality Monitoring

Project Location : AIE_PG Plant

Lot ID: 2571498

Date Received : Aug 05, 2025

Date Reported : Aug 14, 2025

Report Number : 3370302-1

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Sample Number 2571498-1
Sampled Date Aug 04, 2025
Sample Description Air Quality
Location บริเวณพื้นที่ตั้งปฏิกิริยา
Date Analysis Commenced Aug 07, 2025
Condition of Sample Drawn into one sorbent tube, refrigerated
Barometric Pressure 755 mmHg
Atmospheric Temperature 32.3 °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 : Prasanmit Kueanpet

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 : 4516938776
Project Name : Environmental Quality Monitoring
Project Location : AIE_PG Plant

Lot ID: 2581186

Date Received : Sep 09, 2025
Date Reported : Sep 17, 2025
Report Number : 3392384-1

Page 1 of 1

Sample Number 2581186-1
Sampled Date Sep 09, 2025
Sample Description Air Quality
Location บริเวณพื้นที่ตั้งปฏิกิริยา
Date Analysis Commenced Sep 10, 2025
Condition of Sample Drawn into one sorbent tube, refrigerated
Barometric Pressure 754 mmHg
Atmospheric Temperature 27.2 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Propylene Oxide	01:40 PM - 03:40 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 : Natthapon Jiengwareewong

Remark :

- LOD : Limit of Detection
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Approved by

Orawan R.

Orawan Rakyong
Scientist (3)

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Analysis / Test Report

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Thailand 21130
P/O : 4516938776
Project Name : Environmental Quality Monitoring
Project Location : AIE_PG Plant

Lot ID: 2591818

Date Received : Oct 06, 2025
Date Reported : Oct 15, 2025
Report Number : 3417616-1

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Sample Number 2591818-1
Sampled Date Oct 06, 2025
Sample Description Air Quality
Location บริเวณพื้นที่ส่งปฏิกิริยา
Date Analysis Commenced Oct 07, 2025
Condition of Sample Drawn into one sorbent tube, refrigerated
Barometric Pressure 756 mmHg
Atmospheric Temperature 30.1 °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 : Sirichock Pongprasom

Remark :

- LOD : Limit of Detection
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Approved by

Saranya C.

Saranya Chalermthamrong
Scientist (4)

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Analysis / Test Report

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10 Moo 2, Asia Industrial Estate, Tambol Banchang, Amphur Banchang, Rayong
Thailand 21130
P/O : 4516938776
Project Name : Environmental Quality Monitoring
Project Location : AIE_PG Plant

Lot ID: 2599557

Date Received : Nov 10, 2025
Date Reported : Nov 18, 2025
Report Number : 3436747-1

Page 1 of 1

Sample Number 2599557-1
Sampled Date Nov 06, 2025
Sample Description Air Quality
Location บริเวณพื้นที่ตั้งปฏิกิริยา
Date Analysis Commenced Nov 12, 2025
Condition of Sample Drawn into one sorbent tube, refrigerated
Barometric Pressure 755 mmHg
Atmospheric Temperature 32.2 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Propylene Oxide	09:00 AM - 11:00 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 : Natthapon Jiengwareewong

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. The report shall not be reproduced except in full without the written approval of the laboratory.



Analysis / Test Report

Client : Dow Chemical Thailand Ltd.
10 Moo 2, Asia Industrial Estate, Tambol Banchang, Amphur Banchang, Rayong
Thailand 21130
P/O : 4516938776
Project Name : Environmental Quality Monitoring
Project Location : AIE_PG Plant

Lot ID: 25108065

Date Received : Dec 03, 2025
Date Reported : Dec 12, 2025
Report Number : 3458658-1

Page 1 of 1

Sample Number 25108065-1
Sampled Date Dec 03, 2025
Sample Description Air Quality
Location บริเวณพื้นที่ตั้งปฏิกิริยา
Date Analysis Commenced Dec 04, 2025
Condition of Sample Drawn into one sorbent tube, refrigerated
Barometric Pressure 757 mmHg
Atmospheric Temperature 30.6 °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 : Prasanmit Kueanpet

Remark :

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

Approved by

Orawan R.

Orawan Rakyong
Scientist (3)

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ภาคผนวก ค-2

ผลการตรวจวัดระดับเสียงโดยทั่วไป
บริเวณชุมชนที่อยู่ใกล้เคียงพื้นที่โครงการ



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 : 4516938776

Project Name : Environmental Quality Monitoring

Project Location : AIE_PG Plant

Lot ID: 2581817

Date Received : Oct 14, 2025

Date Reported : Oct 20, 2025

Report Number: 3430791-1

Page 1 of 1

Sample Number 2581817-1
Parameter Noise (Leq 24 hrs.)
Location กลุ่มบ้านประทุมมิตร (ที่อยู่ใกล้พื้นที่โครงการมากที่สุด) (GPS 47P 0726338, 1405748)
Measurement Date Oct 06 - Oct 07, 2025
Measurement by Chatchai Sukpia
Sound Level meter Serial No. 710638

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
10:00 AM - 11:00 AM	49.9	76.1	42.5
11:00 AM - 12:00 PM	52.6	70.2	48.4
12:00 PM - 01:00 PM	49.7	67.2	44.9
01:00 PM - 02:00 PM	49.3	72.8	43.5
02:00 PM - 03:00 PM	50.4	70.8	43.9
03:00 PM - 04:00 PM	52.8	85.1	44.3
04:00 PM - 05:00 PM	52.8	72.2	49.2
05:00 PM - 06:00 PM	51.8	64.3	49.8
06:00 PM - 07:00 PM	52.6	67.8	48.4
07:00 PM - 08:00 PM	52.9	68.8	48.7
08:00 PM - 09:00 PM	53.4	76.7	46.8
09:00 PM - 10:00 PM	50.6	71.8	44.2
10:00 PM - 11:00 PM	50.8	71.8	47.1
11:00 PM - 12:00 AM	47.9	66.6	42.2
12:00 AM - 01:00 AM	50.4	76.9	42.5
01:00 AM - 02:00 AM	47.3	62.4	43.2
02:00 AM - 03:00 AM	50.4	66.2	44.2
03:00 AM - 04:00 AM	49.0	70.9	43.6
04:00 AM - 05:00 AM	48.7	64.6	45.0
05:00 AM - 06:00 AM	46.0	60.5	43.0
06:00 AM - 07:00 AM	46.2	56.5	43.9
07:00 AM - 08:00 AM	47.0	58.6	45.2
08:00 AM - 09:00 AM	46.6	60.4	44.6
09:00 AM - 10:00 AM	46.5	62.7	43.8

Leq Average 24 hrs. (dB(A))

50.4

Lmax (dB(A))

85.1

L90 (dB(A))

44.2

Standard (dB(A))

70

115

Reference Method : ISO 1996-1 : 2016

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 : 4516938776

Project Name : Environmental Quality Monitoring

Project Location : AIE_PG Plant

Lot ID: 2581817

Date Received : Oct 14, 2025

Date Reported : Oct 20, 2025

Report Number: 3430792-1

Page 1 of 1

Sample Number 2581817-2
Parameter Noise (Leq 24 hrs.)
Location กลุ่มบ้านประทุมมิตร (ที่อยู่ใกล้พื้นที่โครงการมากที่สุด) (GPS 47P 0726338, 1405748)
Measurement Date Oct 07 - Oct 08, 2025
Measurement by Chatchai Sukpia
Sound Level meter Serial No. 710638

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
10:00 AM - 11:00 AM	49.7	68.6	45.6
11:00 AM - 12:00 PM	51.3	67.8	46.6
12:00 PM - 01:00 PM	49.9	68.0	44.5
01:00 PM - 02:00 PM	56.9	80.7	44.3
02:00 PM - 03:00 PM	47.3	65.9	43.0
03:00 PM - 04:00 PM	47.0	65.6	41.2
04:00 PM - 05:00 PM	49.1	66.0	44.6
05:00 PM - 06:00 PM	63.7	90.0	53.4
06:00 PM - 07:00 PM	52.3	74.2	48.5
07:00 PM - 08:00 PM	49.6	70.1	45.5
08:00 PM - 09:00 PM	49.1	67.0	43.7
09:00 PM - 10:00 PM	49.8	70.3	43.9
10:00 PM - 11:00 PM	47.8	71.1	41.6
11:00 PM - 12:00 AM	51.8	82.3	42.6
12:00 AM - 01:00 AM	48.3	66.4	42.6
01:00 AM - 02:00 AM	56.0	85.8	42.5
02:00 AM - 03:00 AM	50.4	71.7	43.0
03:00 AM - 04:00 AM	50.0	72.9	43.9
04:00 AM - 05:00 AM	50.0	76.2	44.2
05:00 AM - 06:00 AM	50.3	65.4	46.6
06:00 AM - 07:00 AM	49.8	72.5	45.0
07:00 AM - 08:00 AM	49.3	66.8	44.3
08:00 AM - 09:00 AM	50.9	77.7	44.5
09:00 AM - 10:00 AM	49.5	66.3	44.8

Leq Average 24 hrs. (dB(A)) 53.4

Lmax (dB(A)) 90.0

L90 (dB(A)) 44.3

Standard (dB(A)) 70 115

Reference Method : ISO 1996-1 : 2016

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



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 : 4516938776

Project Name : Environmental Quality Monitoring

Project Location : AIE_PG Plant

Lot ID: 2581817

Date Received : Oct 14, 2025

Date Reported : Oct 20, 2025

Report Number: 3430793-1

Page 1 of 1

Sample Number 2581817-3
Parameter Noise (Leq 24 hrs.)
Location กลุ่มบ้านประทุมมิตร (ที่อยู่ใกล้พื้นที่โครงการมากที่สุด) (GPS 47P 0726338, 1405748)
Measurement Date Oct 08 - Oct 09, 2025
Measurement by Chatchai Sukpia
Sound Level meter Serial No. 710638

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
10:00 AM - 11:00 AM	46.8	65.9	42.6
11:00 AM - 12:00 PM	49.7	67.3	43.1
12:00 PM - 01:00 PM	51.5	78.7	42.7
01:00 PM - 02:00 PM	46.4	62.6	41.6
02:00 PM - 03:00 PM	49.0	69.1	41.3
03:00 PM - 04:00 PM	51.8	80.3	46.9
04:00 PM - 05:00 PM	53.1	70.6	47.8
05:00 PM - 06:00 PM	47.2	62.0	45.8
06:00 PM - 07:00 PM	48.4	59.5	47.5
07:00 PM - 08:00 PM	47.6	63.4	45.4
08:00 PM - 09:00 PM	51.7	66.6	48.0
09:00 PM - 10:00 PM	53.5	70.6	48.0
10:00 PM - 11:00 PM	53.2	70.1	47.8
11:00 PM - 12:00 AM	50.4	72.4	43.9
12:00 AM - 01:00 AM	49.9	69.0	46.5
01:00 AM - 02:00 AM	49.7	64.6	47.4
02:00 AM - 03:00 AM	49.5	75.7	45.2
03:00 AM - 04:00 AM	47.3	63.6	43.8
04:00 AM - 05:00 AM	54.7	86.8	48.8
05:00 AM - 06:00 AM	47.4	66.1	45.5
06:00 AM - 07:00 AM	47.5	61.0	45.7
07:00 AM - 08:00 AM	48.9	61.3	45.4
08:00 AM - 09:00 AM	50.6	63.5	47.6
09:00 AM - 10:00 AM	50.7	76.8	47.1

Leq Average 24 hrs. (dB(A)) 50.5
Lmax (dB(A)) 86.8
L90 (dB(A)) 45.7

Standard (dB(A))

70

115

Reference Method : ISO 1996-1 : 2016

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 : 4516938776

Project Name : Environmental Quality Monitoring

Project Location : AIE_PG Plant

Lot ID: 2581817

Date Received : Oct 14, 2025

Date Reported : Oct 20, 2025

Report Number: 3430794-1

Page 1 of 1

Sample Number 2581817-4
Parameter Noise (Leq 24 hrs.)
Location กลุ่มบ้านประทุมมิตร (ที่อยู่ใกล้พื้นที่โครงการมากที่สุด) (GPS 47P 0726338, 1405748)
Measurement Date Oct 09 - Oct 10, 2025
Measurement by Chatchai Sukpia
Sound Level meter Serial No. 710638

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
10:00 AM - 11:00 AM	50.4	70.4	43.8
11:00 AM - 12:00 PM	46.7	85.6	41.9
12:00 PM - 01:00 PM	48.1	73.5	40.9
01:00 PM - 02:00 PM	49.6	76.3	41.6
02:00 PM - 03:00 PM	49.2	82.5	42.8
03:00 PM - 04:00 PM	47.4	73.3	41.6
04:00 PM - 05:00 PM	51.3	81.7	42.5
05:00 PM - 06:00 PM	48.4	65.9	42.6
06:00 PM - 07:00 PM	56.2	86.2	42.4
07:00 PM - 08:00 PM	49.7	70.2	43.1
08:00 PM - 09:00 PM	49.8	73.7	44.1
09:00 PM - 10:00 PM	50.4	75.5	44.5
10:00 PM - 11:00 PM	49.2	68.4	46.2
11:00 PM - 12:00 AM	49.7	71.7	46.5
12:00 AM - 01:00 AM	48.6	66.5	44.9
01:00 AM - 02:00 AM	47.9	65.8	45.0
02:00 AM - 03:00 AM	51.7	72.6	48.8
03:00 AM - 04:00 AM	48.6	62.5	47.2
04:00 AM - 05:00 AM	48.2	61.1	46.9
05:00 AM - 06:00 AM	47.7	55.3	46.7
06:00 AM - 07:00 AM	46.9	57.2	45.8
07:00 AM - 08:00 AM	48.2	61.2	47.2
08:00 AM - 09:00 AM	48.4	63.1	46.7
09:00 AM - 10:00 AM	48.8	65.0	46.4

Leq Average 24 hrs. (dB(A)) 49.8
Lmax (dB(A)) 86.2
L90 (dB(A)) 44.5

Standard (dB(A)) 70 115

Reference Method : ISO 1996-1 : 2016

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 : 4516938776

Project Name : Environmental Quality Monitoring

Project Location : AIE_PG Plant

Lot ID: 2581817

Date Received : Oct 14, 2025

Date Reported : Oct 20, 2025

Report Number: 3430795-1

Page 1 of 1

Sample Number 2581817-5
Parameter Noise (Leq 24 hrs.)
Location กลุ่มบ้านประทุมมิตร (ที่อยู่ใกล้พื้นที่โครงการมากที่สุด) (GPS 47P 0726338, 1405748)
Measurement Date Oct 10 - Oct 11, 2025
Measurement by Chatchai Sukpia
Sound Level meter Serial No. 710638

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
10:00 AM - 11:00 AM	53.2	69.1	48.5
11:00 AM - 12:00 PM	52.9	69.5	47.9
12:00 PM - 01:00 PM	52.3	71.8	46.7
01:00 PM - 02:00 PM	49.7	70.4	42.3
02:00 PM - 03:00 PM	51.5	64.7	49.4
03:00 PM - 04:00 PM	49.3	64.7	47.7
04:00 PM - 05:00 PM	48.2	61.7	47.0
05:00 PM - 06:00 PM	48.2	61.9	47.2
06:00 PM - 07:00 PM	48.3	62.1	46.7
07:00 PM - 08:00 PM	51.3	66.5	47.7
08:00 PM - 09:00 PM	52.8	68.4	48.3
09:00 PM - 10:00 PM	51.6	74.1	46.2
10:00 PM - 11:00 PM	49.5	67.9	44.2
11:00 PM - 12:00 AM	47.0	68.0	43.0
12:00 AM - 01:00 AM	47.2	66.0	42.7
01:00 AM - 02:00 AM	51.6	79.3	43.3
02:00 AM - 03:00 AM	49.9	70.6	42.9
03:00 AM - 04:00 AM	47.1	66.3	41.6
04:00 AM - 05:00 AM	48.9	69.2	42.0
05:00 AM - 06:00 AM	51.5	80.9	46.1
06:00 AM - 07:00 AM	51.2	67.2	46.5
07:00 AM - 08:00 AM	52.3	65.7	50.3
08:00 AM - 09:00 AM	54.9	78.1	53.0
09:00 AM - 10:00 AM	53.7	63.8	52.5

Leq Average 24 hrs. (dB(A))

51.1

Lmax (dB(A))

80.9

L90 (dB(A))

46.7

Standard (dB(A))

70

115

Reference Method : ISO 1996-1 : 2016

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
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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 : 4516938776

Project Name : Environmental Quality Monitoring

Project Location : AIE_PG Plant

Lot ID: 2581817

Date Received : Oct 14, 2025

Date Reported : Oct 20, 2025

Report Number: 3430796-1

Page 1 of 1

Sample Number 2581817-6
Parameter Noise (Leq 24 hrs.)
Location กลุ่มบ้านประทุมมิตร (ที่อยู่ใกล้พื้นที่โครงการมากที่สุด) (GPS 47P 0726338, 1405748)
Measurement Date Oct 11 - Oct 12, 2025
Measurement by Chatchai Sukpia
Sound Level meter Serial No. 710638

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
10:00 AM - 11:00 AM	52.0	69.9	49.7
11:00 AM - 12:00 PM	50.2	65.3	47.6
12:00 PM - 01:00 PM	49.6	76.2	45.3
01:00 PM - 02:00 PM	49.9	81.1	43.8
02:00 PM - 03:00 PM	53.9	85.0	49.0
03:00 PM - 04:00 PM	47.0	58.5	45.3
04:00 PM - 05:00 PM	47.4	61.9	45.4
05:00 PM - 06:00 PM	50.3	62.9	46.4
06:00 PM - 07:00 PM	49.8	64.8	47.2
07:00 PM - 08:00 PM	53.3	70.4	48.2
08:00 PM - 09:00 PM	54.0	75.5	49.5
09:00 PM - 10:00 PM	51.8	73.2	45.9
10:00 PM - 11:00 PM	50.0	71.6	43.0
11:00 PM - 12:00 AM	47.6	65.0	41.6
12:00 AM - 01:00 AM	50.3	76.5	41.9
01:00 AM - 02:00 AM	47.1	65.1	43.2
02:00 AM - 03:00 AM	50.3	76.0	42.7
03:00 AM - 04:00 AM	49.3	69.4	43.6
04:00 AM - 05:00 AM	49.3	67.2	43.0
05:00 AM - 06:00 AM	50.1	70.5	44.4
06:00 AM - 07:00 AM	50.4	73.3	46.9
07:00 AM - 08:00 AM	50.3	63.2	46.9
08:00 AM - 09:00 AM	48.1	64.2	45.8
09:00 AM - 10:00 AM	48.1	64.5	46.2

Leq Average 24 hrs. (dB(A))

50.5

Lmax (dB(A))

85.0

L90 (dB(A))

45.4

Standard (dB(A))

70

115

Reference Method : ISO 1996-1 : 2016

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
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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 : 4516938776

Project Name : Environmental Quality Monitoring

Project Location : AIE_PG Plant

Lot ID: 2581817

Date Received : Oct 14, 2025

Date Reported : Oct 20, 2025

Report Number: 3430797-1

Page 1 of 1

Sample Number 2581817-7
Parameter Noise (Leq 24 hrs.)
Location กลุ่มบ้านประทุมมิตร (ที่อยู่ใกล้พื้นที่โครงการมากที่สุด) (GPS 47P 0726338, 1405748)
Measurement Date Oct 12 - Oct 13, 2025
Measurement by Chatchai Sukpia
Sound Level meter Serial No. 710638

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
10:00 AM - 11:00 AM	48.1	72.4	45.8
11:00 AM - 12:00 PM	48.0	67.3	46.0
12:00 PM - 01:00 PM	46.0	64.2	43.7
01:00 PM - 02:00 PM	45.2	56.9	43.0
02:00 PM - 03:00 PM	46.6	57.9	44.7
03:00 PM - 04:00 PM	46.7	61.3	44.9
04:00 PM - 05:00 PM	46.6	62.4	43.6
05:00 PM - 06:00 PM	48.2	65.6	44.5
06:00 PM - 07:00 PM	50.8	68.9	46.4
07:00 PM - 08:00 PM	50.9	68.2	45.0
08:00 PM - 09:00 PM	56.1	79.7	44.6
09:00 PM - 10:00 PM	50.6	76.7	44.2
10:00 PM - 11:00 PM	49.3	71.8	43.7
11:00 PM - 12:00 AM	53.9	87.7	41.1
12:00 AM - 01:00 AM	49.3	71.0	41.3
01:00 AM - 02:00 AM	51.3	70.2	42.9
02:00 AM - 03:00 AM	48.8	69.4	43.7
03:00 AM - 04:00 AM	50.8	72.3	43.1
04:00 AM - 05:00 AM	49.4	70.4	45.3
05:00 AM - 06:00 AM	48.6	68.9	45.3
06:00 AM - 07:00 AM	51.8	61.5	49.0
07:00 AM - 08:00 AM	49.5	62.9	47.3
08:00 AM - 09:00 AM	49.2	61.9	46.6
09:00 AM - 10:00 AM	47.4	63.8	45.1

Leq Average 24 hrs. (dB(A))

50.1

Lmax (dB(A))

87.7

L90 (dB(A))

44.6

Standard (dB(A))

70

115

Reference Method : ISO 1996-1 : 2016

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

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Chonticha Subongkoch
Scientist (3)

Approved by

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Supot Salamteh
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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 : 4516938776

Project Name : Environmental Quality Monitoring

Project Location : AIE_PG Plant

Lot ID: 2581817

Date Received : Oct 14, 2025

Date Reported : Oct 20, 2025

Report Number: 3430798-1

Page 1 of 1

Sample Number 2581817-8
Parameter Noise (Leq 24 hrs.)
Location กลุ่มบ้านชุมชนพยุห 1 (ที่อยู่ใกล้พื้นที่โครงการมากที่สุด) (GPS 47P 0727177, 1404390)
Measurement Date Oct 06 - Oct 07, 2025
Measurement by Chatchai Sukpia
Sound Level meter Serial No. 710638

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
10:00 AM - 11:00 AM	50.3	83.0	43.9
11:00 AM - 12:00 PM	50.6	67.4	45.8
12:00 PM - 01:00 PM	53.9	87.7	41.3
01:00 PM - 02:00 PM	48.9	71.0	41.3
02:00 PM - 03:00 PM	49.6	71.0	42.1
03:00 PM - 04:00 PM	50.8	68.3	43.6
04:00 PM - 05:00 PM	49.4	72.3	43.2
05:00 PM - 06:00 PM	50.4	70.7	44.0
06:00 PM - 07:00 PM	49.4	68.9	45.7
07:00 PM - 08:00 PM	50.7	61.4	47.9
08:00 PM - 09:00 PM	50.2	62.9	47.7
09:00 PM - 10:00 PM	49.7	61.9	47.2
10:00 PM - 11:00 PM	48.4	60.2	46.3
11:00 PM - 12:00 AM	47.7	70.6	43.7
12:00 AM - 01:00 AM	58.1	76.7	53.3
01:00 AM - 02:00 AM	53.4	77.4	49.0
02:00 AM - 03:00 AM	63.2	94.8	53.4
03:00 AM - 04:00 AM	60.1	82.8	56.2
04:00 AM - 05:00 AM	56.3	65.1	51.0
05:00 AM - 06:00 AM	53.7	67.0	50.7
06:00 AM - 07:00 AM	53.4	67.6	50.9
07:00 AM - 08:00 AM	53.7	74.9	50.0
08:00 AM - 09:00 AM	52.8	65.9	48.5
09:00 AM - 10:00 AM	50.3	69.3	47.1

Leq Average 24 hrs. (dB(A))

54.6

Lmax (dB(A))

94.8

L90 (dB(A))

47.1

Standard (dB(A))

70

115

Reference Method : ISO 1996-1 : 2016

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)

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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 : 4516938776

Project Name : Environmental Quality Monitoring

Project Location : AIE_PG Plant

Lot ID: 2581817

Date Received : Oct 14, 2025

Date Reported : Oct 20, 2025

Report Number: 3430799-1

Page 1 of 1

Sample Number 2581817-9
Parameter Noise (Leq 24 hrs.)
Location กลุ่มบ้านชุมชนพยุห 1 (ที่อยู่ใกล้พื้นที่โครงการมากที่สุด) (GPS 47P 0727177, 1404390)
Measurement Date Oct 07 - Oct 08, 2025
Measurement by Chatchai Sukpia
Sound Level meter Serial No. 710638

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
10:00 AM - 11:00 AM	55.1	78.7	45.6
11:00 AM - 12:00 PM	52.2	75.3	46.1
12:00 PM - 01:00 PM	47.9	64.6	46.6
01:00 PM - 02:00 PM	53.3	78.5	47.0
02:00 PM - 03:00 PM	55.3	81.2	46.5
03:00 PM - 04:00 PM	58.7	79.3	46.6
04:00 PM - 05:00 PM	53.7	79.5	47.0
05:00 PM - 06:00 PM	53.0	80.7	47.5
06:00 PM - 07:00 PM	49.8	68.3	48.3
07:00 PM - 08:00 PM	49.6	61.3	48.8
08:00 PM - 09:00 PM	51.1	69.2	48.5
09:00 PM - 10:00 PM	51.9	66.9	48.9
10:00 PM - 11:00 PM	58.4	67.9	53.1
11:00 PM - 12:00 AM	52.5	63.8	51.6
12:00 AM - 01:00 AM	51.9	63.2	51.3
01:00 AM - 02:00 AM	52.4	73.7	51.6
02:00 AM - 03:00 AM	52.3	64.1	51.2
03:00 AM - 04:00 AM	51.9	66.1	50.8
04:00 AM - 05:00 AM	54.6	78.7	49.1
05:00 AM - 06:00 AM	59.8	83.6	49.8
06:00 AM - 07:00 AM	60.5	82.9	50.3
07:00 AM - 08:00 AM	58.3	84.3	49.7
08:00 AM - 09:00 AM	57.2	96.5	47.4
09:00 AM - 10:00 AM	53.5	78.7	46.2

Leq Average 24 hrs. (dB(A)) 55.3
Lmax (dB(A)) 96.5
L90 (dB(A)) 48.5

Standard (dB(A))

70

115

Reference Method : ISO 1996-1 : 2016

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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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 : 4516938776

Project Name : Environmental Quality Monitoring

Project Location : AIE_PG Plant

Lot ID: 2581817

Date Received : Oct 14, 2025

Date Reported : Oct 20, 2025

Report Number: 3430800-1

Page 1 of 1

Sample Number 2581817-10
Parameter Noise (Leq 24 hrs.)
Location กลุ่มบ้านชุมชนพยุห 1 (ที่อยู่ใกล้พื้นที่โครงการมากที่สุด) (GPS 47P 0727177, 1404390)
Measurement Date Oct 08 - Oct 09, 2025
Measurement by Chatchai Sukpia
Sound Level meter Serial No. 710638

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
10:00 AM - 11:00 AM	51.9	77.3	46.1
11:00 AM - 12:00 PM	49.0	68.7	47.0
12:00 PM - 01:00 PM	52.4	83.0	47.6
01:00 PM - 02:00 PM	49.1	69.0	47.6
02:00 PM - 03:00 PM	53.6	79.2	48.3
03:00 PM - 04:00 PM	53.0	77.6	47.9
04:00 PM - 05:00 PM	51.0	75.8	48.4
05:00 PM - 06:00 PM	50.3	69.4	48.9
06:00 PM - 07:00 PM	53.8	69.7	52.8
07:00 PM - 08:00 PM	54.6	72.2	53.5
08:00 PM - 09:00 PM	53.4	74.6	50.7
09:00 PM - 10:00 PM	49.7	63.6	48.8
10:00 PM - 11:00 PM	50.3	60.4	49.5
11:00 PM - 12:00 AM	52.4	73.6	49.4
12:00 AM - 01:00 AM	50.0	58.2	49.3
01:00 AM - 02:00 AM	49.4	56.6	48.8
02:00 AM - 03:00 AM	52.8	73.4	50.0
03:00 AM - 04:00 AM	58.5	84.9	50.0
04:00 AM - 05:00 AM	56.3	78.2	50.2
05:00 AM - 06:00 AM	60.0	81.7	50.5
06:00 AM - 07:00 AM	61.4	80.8	50.5
07:00 AM - 08:00 AM	58.9	80.1	50.2
08:00 AM - 09:00 AM	57.2	96.9	49.8
09:00 AM - 10:00 AM	54.0	79.1	47.6

Leq Average 24 hrs. (dB(A))

55.1

Lmax (dB(A))

96.9

L90 (dB(A))

49.3

Standard (dB(A))

70

115

Reference Method : ISO 1996-1 : 2016

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 : 4516938776

Project Name : Environmental Quality Monitoring

Project Location : AIE_PG Plant

Lot ID: 2581817

Date Received : Oct 14, 2025

Date Reported : Oct 20, 2025

Report Number: 3430801-1

Page 1 of 1

Sample Number 2581817-11
Parameter Noise (Leq 24 hrs.)
Location กลุ่มบ้านชุมชนพยุห 1 (ที่อยู่ใกล้พื้นที่โครงการมากที่สุด) (GPS 47P 0727177, 1404390)
Measurement Date Oct 09 - Oct 10, 2025
Measurement by Chatchai Sukpia
Sound Level meter Serial No. 710638

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
10:00 AM - 11:00 AM	56.1	80.2	48.5
11:00 AM - 12:00 PM	52.2	76.9	48.7
12:00 PM - 01:00 PM	57.0	80.0	48.2
01:00 PM - 02:00 PM	61.3	89.2	50.7
02:00 PM - 03:00 PM	64.5	88.8	50.7
03:00 PM - 04:00 PM	56.0	79.2	48.2
04:00 PM - 05:00 PM	55.3	78.4	48.3
05:00 PM - 06:00 PM	51.1	67.6	49.6
06:00 PM - 07:00 PM	51.5	72.0	50.6
07:00 PM - 08:00 PM	52.3	59.3	51.8
08:00 PM - 09:00 PM	51.8	62.7	51.3
09:00 PM - 10:00 PM	51.4	64.2	50.8
10:00 PM - 11:00 PM	51.3	64.3	50.6
11:00 PM - 12:00 AM	50.5	63.5	50.0
12:00 AM - 01:00 AM	52.2	72.5	49.5
01:00 AM - 02:00 AM	54.5	79.3	50.3
02:00 AM - 03:00 AM	52.9	73.5	50.5
03:00 AM - 04:00 AM	51.4	60.0	50.8
04:00 AM - 05:00 AM	56.1	78.7	51.3
05:00 AM - 06:00 AM	59.9	83.0	51.1
06:00 AM - 07:00 AM	58.1	81.5	51.0
07:00 AM - 08:00 AM	60.7	96.1	49.7
08:00 AM - 09:00 AM	51.5	76.4	48.7
09:00 AM - 10:00 AM	55.7	81.0	48.6

Leq Average 24 hrs. (dB(A))

56.8

Lmax (dB(A))

96.1

L90 (dB(A))

50.3

Standard (dB(A))

70

115

Reference Method : ISO 1996-1 : 2016

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

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 : 4516938776

Project Name : Environmental Quality Monitoring

Project Location : AIE_PG Plant

Lot ID: 2581817

Date Received : Oct 14, 2025

Date Reported : Oct 20, 2025

Report Number: 3430802-1

Page 1 of 1

Sample Number 2581817-12
Parameter Noise (Leq 24 hrs.)
Location กลุ่มบ้านชุมชนพยุห 1 (ที่อยู่ใกล้พื้นที่โครงการมากที่สุด) (GPS 47P 0727177, 1404390)
Measurement Date Oct 10 - Oct 11, 2025
Measurement by Chatchai Sukpia
Sound Level meter Serial No. 710638

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
10:00 AM - 11:00 AM	61.4	96.1	48.0
11:00 AM - 12:00 PM	53.7	83.1	46.1
12:00 PM - 01:00 PM	61.6	90.6	54.3
01:00 PM - 02:00 PM	58.5	79.6	52.0
02:00 PM - 03:00 PM	51.7	68.4	46.8
03:00 PM - 04:00 PM	49.6	77.0	42.1
04:00 PM - 05:00 PM	48.8	69.7	41.3
05:00 PM - 06:00 PM	47.9	70.5	41.8
06:00 PM - 07:00 PM	50.2	65.9	43.3
07:00 PM - 08:00 PM	49.1	69.1	43.2
08:00 PM - 09:00 PM	50.7	71.3	44.1
09:00 PM - 10:00 PM	50.8	69.5	46.7
10:00 PM - 11:00 PM	50.5	61.6	47.5
11:00 PM - 12:00 AM	50.5	64.0	48.1
12:00 AM - 01:00 AM	49.8	63.4	47.6
01:00 AM - 02:00 AM	48.7	62.1	46.4
02:00 AM - 03:00 AM	46.8	63.9	44.1
03:00 AM - 04:00 AM	58.7	76.9	54.3
04:00 AM - 05:00 AM	52.7	73.2	47.7
05:00 AM - 06:00 AM	62.3	94.2	52.6
06:00 AM - 07:00 AM	61.1	84.8	55.8
07:00 AM - 08:00 AM	54.6	65.2	50.8
08:00 AM - 09:00 AM	53.7	66.2	51.1
09:00 AM - 10:00 AM	53.3	67.8	50.7

Leq Average 24 hrs. (dB(A))

56.0

Lmax (dB(A))

96.1

L90 (dB(A))

47.5

Standard (dB(A))

70

115

Reference Method : ISO 1996-1 : 2016

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

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 : 4516938776

Project Name : Environmental Quality Monitoring

Project Location : AIE_PG Plant

Lot ID: 2581817

Date Received : Oct 14, 2025

Date Reported : Oct 20, 2025

Report Number: 3430803-1

Page 1 of 1

Sample Number 2581817-13
Parameter Noise (Leq 24 hrs.)
Location กลุ่มบ้านชุมชนพยุห 1 (ที่อยู่ใกล้พื้นที่โครงการมากที่สุด) (GPS 47P 0727177, 1404390)
Measurement Date Oct 11 - Oct 12, 2025
Measurement by Chatchai Sukpia
Sound Level meter Serial No. 710638

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
10:00 AM - 11:00 AM	53.9	75.7	50.7
11:00 AM - 12:00 PM	52.9	67.8	49.1
12:00 PM - 01:00 PM	50.1	70.2	46.7
01:00 PM - 02:00 PM	50.7	71.8	43.5
02:00 PM - 03:00 PM	46.5	68.8	42.8
03:00 PM - 04:00 PM	46.8	67.1	40.8
04:00 PM - 05:00 PM	49.9	75.5	40.7
05:00 PM - 06:00 PM	53.4	81.1	47.3
06:00 PM - 07:00 PM	60.8	95.5	49.8
07:00 PM - 08:00 PM	57.9	87.9	50.1
08:00 PM - 09:00 PM	60.1	95.5	49.5
09:00 PM - 10:00 PM	53.9	69.7	52.4
10:00 PM - 11:00 PM	55.5	66.5	54.7
11:00 PM - 12:00 AM	56.0	66.3	55.3
12:00 AM - 01:00 AM	54.6	62.5	53.8
01:00 AM - 02:00 AM	52.3	64.9	50.8
02:00 AM - 03:00 AM	51.8	66.1	49.0
03:00 AM - 04:00 AM	51.7	61.4	48.8
04:00 AM - 05:00 AM	50.6	64.0	49.2
05:00 AM - 06:00 AM	49.0	63.9	47.7
06:00 AM - 07:00 AM	47.9	60.4	46.8
07:00 AM - 08:00 AM	47.4	60.8	46.5
08:00 AM - 09:00 AM	48.3	62.0	46.7
09:00 AM - 10:00 AM	51.6	66.8	47.9

Leq Average 24 hrs. (dB(A))

54.1

Lmax (dB(A))

95.5

L90 (dB(A))

48.8

Standard (dB(A))

70

115

Reference Method : ISO 1996-1 : 2016

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

Supot S

Supot Salamteh
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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 : 4516938776

Project Name : Environmental Quality Monitoring

Project Location : AIE_PG Plant

Lot ID: 2581817

Date Received : Oct 14, 2025

Date Reported : Oct 20, 2025

Report Number: 3430804-1

Page 1 of 1

Sample Number 2581817-14
Parameter Noise (Leq 24 hrs.)
Location กลุ่มบ้านชุมชนพยุห 1 (ที่อยู่ใกล้พื้นที่โครงการมากที่สุด) (GPS 47P 0727177, 1404390)
Measurement Date Oct 12 - Oct 13, 2025
Measurement by Chatchai Sukpia
Sound Level meter Serial No. 710638

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
10:00 AM - 11:00 AM	52.9	69.1	48.4
11:00 AM - 12:00 PM	51.6	70.7	46.1
12:00 PM - 01:00 PM	49.7	67.3	44.2
01:00 PM - 02:00 PM	49.6	74.1	44.7
02:00 PM - 03:00 PM	49.2	67.6	43.7
03:00 PM - 04:00 PM	49.4	69.3	44.6
04:00 PM - 05:00 PM	50.5	77.7	44.4
05:00 PM - 06:00 PM	50.9	66.3	47.1
06:00 PM - 07:00 PM	54.3	69.2	51.7
07:00 PM - 08:00 PM	51.0	70.7	45.5
08:00 PM - 09:00 PM	56.5	96.1	48.0
09:00 PM - 10:00 PM	55.7	77.7	48.4
10:00 PM - 11:00 PM	49.6	67.4	46.6
11:00 PM - 12:00 AM	50.2	66.2	44.9
12:00 AM - 01:00 AM	54.0	87.7	43.2
01:00 AM - 02:00 AM	51.4	60.0	50.9
02:00 AM - 03:00 AM	53.5	74.3	51.2
03:00 AM - 04:00 AM	55.3	96.1	49.2
04:00 AM - 05:00 AM	51.6	76.4	48.8
05:00 AM - 06:00 AM	56.0	77.7	50.5
06:00 AM - 07:00 AM	51.5	65.0	49.4
07:00 AM - 08:00 AM	53.0	66.9	48.6
08:00 AM - 09:00 AM	52.9	77.6	48.8
09:00 AM - 10:00 AM	53.6	73.9	46.4

Leq Average 24 hrs. (dB(A))

52.8

Lmax (dB(A))

96.1

L90 (dB(A))

47.1

Standard (dB(A))

70

115

Reference Method : ISO 1996-1 : 2016

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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ภาคผนวก ค-3

ผลการตรวจวัดระดับเสียงโดยทั่วไป
บริเวณพื้นที่โครงการ



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 :

Project Name : Environmental Quality Monitoring

Project Location : AIE_PG Plant

Lot ID: 2581899

Date Received : Oct 14, 2025

Date Reported : Oct 29, 2025

Report Number: 3430835-1C16

Page 1 of 1

Sample Number 2581899-1
Parameter Noise (Leq 24 hrs.)
Location บริเวณริมรั้วของโครงการทางด้านทิศตะวันตกของพื้นที่ HPPO (GPS 47P 0726777, 1405417)
Measurement Date Oct 06 - Oct 07, 2025
Measurement by Chatchai Sukpia
Sound Level meter Serial No. 710639

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
10:00 AM - 11:00 AM	58.9	78.3	56.8
11:00 AM - 12:00 PM	58.8	79.8	57.0
12:00 PM - 01:00 PM	58.8	73.0	57.1
01:00 PM - 02:00 PM	58.7	74.3	57.0
02:00 PM - 03:00 PM	58.4	79.7	57.1
03:00 PM - 04:00 PM	58.3	72.1	57.0
04:00 PM - 05:00 PM	60.1	79.0	57.5
05:00 PM - 06:00 PM	61.9	90.5	58.0
06:00 PM - 07:00 PM	60.9	85.4	58.6
07:00 PM - 08:00 PM	60.0	77.0	58.6
08:00 PM - 09:00 PM	59.4	69.7	58.6
09:00 PM - 10:00 PM	59.8	86.0	58.5
10:00 PM - 11:00 PM	59.2	73.5	58.4
11:00 PM - 12:00 AM	58.8	70.4	58.2
12:00 AM - 01:00 AM	62.1	77.8	59.5
01:00 AM - 02:00 AM	65.4	72.5	62.4
02:00 AM - 03:00 AM	58.8	69.3	57.8
03:00 AM - 04:00 AM	58.5	65.7	58.0
04:00 AM - 05:00 AM	58.9	66.9	58.3
05:00 AM - 06:00 AM	59.5	75.9	58.6
06:00 AM - 07:00 AM	61.5	84.1	58.8
07:00 AM - 08:00 AM	63.5	86.2	59.0
08:00 AM - 09:00 AM	61.0	87.2	58.2
09:00 AM - 10:00 AM	58.4	71.9	57.0

Leq Average 24 hrs. (dB(A)) 60.4
Lmax (dB(A)) 90.5
L90 (dB(A)) 58.2
Ldn (dB(A)) 67.3
Standard (dB(A)) 70 115

Reference Method : ISO 1996-1 : 2016

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 :

Project Name : Environmental Quality Monitoring

Project Location : AIE_PG Plant

Lot ID: 2581899

Date Received : Oct 14, 2025

Date Reported : Oct 29, 2025

Report Number: 3430836-1C16

Page 1 of 1

Sample Number 2581899-2
Parameter Noise (Leq 24 hrs.)
Location บริเวณริมรั้วของโครงการทางด้านทิศตะวันตกของพื้นที่ HPPO (GPS 47P 0726777, 1405417)
Measurement Date Oct 07 - Oct 08, 2025
Measurement by Chatchai Sukpia
Sound Level meter Serial No. 710639

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
10:00 AM - 11:00 AM	58.7	76.7	56.9
11:00 AM - 12:00 PM	61.0	86.6	56.9
12:00 PM - 01:00 PM	59.5	80.5	57.0
01:00 PM - 02:00 PM	59.4	79.8	57.6
02:00 PM - 03:00 PM	58.8	72.6	57.4
03:00 PM - 04:00 PM	59.1	78.3	57.6
04:00 PM - 05:00 PM	61.4	87.2	58.2
05:00 PM - 06:00 PM	60.5	73.5	58.6
06:00 PM - 07:00 PM	60.5	76.3	58.9
07:00 PM - 08:00 PM	60.2	78.2	59.0
08:00 PM - 09:00 PM	59.8	73.3	58.9
09:00 PM - 10:00 PM	59.3	75.6	57.7
10:00 PM - 11:00 PM	58.9	66.9	58.2
11:00 PM - 12:00 AM	59.3	78.9	58.4
12:00 AM - 01:00 AM	58.8	72.2	58.3
01:00 AM - 02:00 AM	58.7	67.5	58.3
02:00 AM - 03:00 AM	59.7	67.0	59.2
03:00 AM - 04:00 AM	59.2	61.3	58.8
04:00 AM - 05:00 AM	58.6	65.1	58.3
05:00 AM - 06:00 AM	59.3	77.6	58.5
06:00 AM - 07:00 AM	61.5	82.5	59.0
07:00 AM - 08:00 AM	63.9	88.6	58.9
08:00 AM - 09:00 AM	59.4	72.9	57.4
09:00 AM - 10:00 AM	58.2	76.4	56.7

Leq Average 24 hrs. (dB(A)) 59.9
Lmax (dB(A)) 88.6
L90 (dB(A)) 58.3
Ldn (dB(A)) 66.0
Standard (dB(A)) 70 115

Reference Method : ISO 1996-1 : 2016

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 :

Project Name : Environmental Quality Monitoring

Project Location : AIE_PG Plant

Lot ID: 2581899

Date Received : Oct 14, 2025

Date Reported : Oct 29, 2025

Report Number: 3430837-1C16

Page 1 of 1

Sample Number 2581899-3
Parameter Noise (Leq 24 hrs.)
Location บริเวณริมรั้วของโครงการทางด้านทิศตะวันตกของพื้นที่ HPPO (GPS 47P 0726777, 1405417)
Measurement Date Oct 08 - Oct 09, 2025
Measurement by Chatchai Sukpia
Sound Level meter Serial No. 710639

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
10:00 AM - 11:00 AM	57.5	70.8	56.0
11:00 AM - 12:00 PM	58.3	74.5	55.9
12:00 PM - 01:00 PM	58.7	74.8	55.8
01:00 PM - 02:00 PM	58.0	76.0	55.3
02:00 PM - 03:00 PM	57.5	71.7	55.4
03:00 PM - 04:00 PM	57.4	77.4	55.5
04:00 PM - 05:00 PM	61.0	88.7	56.7
05:00 PM - 06:00 PM	60.5	84.6	57.4
06:00 PM - 07:00 PM	60.7	75.7	58.8
07:00 PM - 08:00 PM	60.6	74.0	59.4
08:00 PM - 09:00 PM	61.0	81.5	59.2
09:00 PM - 10:00 PM	60.0	86.8	58.3
10:00 PM - 11:00 PM	58.6	72.9	58.0
11:00 PM - 12:00 AM	58.2	70.7	57.8
12:00 AM - 01:00 AM	58.3	75.1	57.6
01:00 AM - 02:00 AM	57.9	60.7	57.5
02:00 AM - 03:00 AM	58.4	72.2	57.9
03:00 AM - 04:00 AM	58.1	65.7	57.6
04:00 AM - 05:00 AM	57.8	71.0	57.1
05:00 AM - 06:00 AM	58.7	78.1	57.6
06:00 AM - 07:00 AM	61.1	84.9	58.5
07:00 AM - 08:00 AM	63.6	84.0	58.8
08:00 AM - 09:00 AM	60.7	82.1	58.1
09:00 AM - 10:00 AM	58.1	76.9	56.6

Leq Average 24 hrs. (dB(A)) 59.5
Lmax (dB(A)) 88.7
L90 (dB(A)) 57.6
Ldn (dB(A)) 65.3
Standard (dB(A)) 70 115

Reference Method : ISO 1996-1 : 2016

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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Life Sciences

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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 :

Project Name : Environmental Quality Monitoring

Project Location : AIE_PG Plant

Lot ID: 2581899

Date Received : Oct 14, 2025

Date Reported : Oct 29, 2025

Report Number: 3430838-1C16

Page 1 of 1

Sample Number 2581899-4
Parameter Noise (Leq 24 hrs.)
Location บริเวณริมรั้วของโครงการทางด้านทิศตะวันตกของพื้นที่ HPPO (GPS 47P 0726777, 1405417)
Measurement Date Oct 09 - Oct 10, 2025
Measurement by Chatchai Sukpia
Sound Level meter Serial No. 710639

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
10:00 AM - 11:00 AM	58.0	71.1	56.6
11:00 AM - 12:00 PM	59.1	78.3	56.7
12:00 PM - 01:00 PM	58.8	74.1	56.3
01:00 PM - 02:00 PM	61.9	88.0	57.2
02:00 PM - 03:00 PM	61.6	87.6	58.0
03:00 PM - 04:00 PM	59.4	84.9	56.5
04:00 PM - 05:00 PM	60.7	85.9	57.1
05:00 PM - 06:00 PM	60.0	80.4	57.6
06:00 PM - 07:00 PM	61.8	89.5	58.3
07:00 PM - 08:00 PM	59.3	75.3	58.1
08:00 PM - 09:00 PM	58.8	70.5	58.1
09:00 PM - 10:00 PM	58.9	79.0	58.3
10:00 PM - 11:00 PM	58.7	70.8	58.3
11:00 PM - 12:00 AM	58.3	74.2	57.8
12:00 AM - 01:00 AM	58.7	75.3	58.2
01:00 AM - 02:00 AM	58.6	69.8	58.2
02:00 AM - 03:00 AM	58.0	60.1	57.6
03:00 AM - 04:00 AM	58.3	60.4	57.9
04:00 AM - 05:00 AM	58.5	77.5	57.7
05:00 AM - 06:00 AM	58.8	72.2	57.8
06:00 AM - 07:00 AM	61.0	83.2	58.1
07:00 AM - 08:00 AM	62.6	87.0	57.7
08:00 AM - 09:00 AM	59.6	83.8	56.7
09:00 AM - 10:00 AM	71.0	111.2	56.5

Leq Average 24 hrs. (dB(A)) 61.6
Lmax (dB(A)) 111.2
L90 (dB(A)) 57.7
Ldn (dB(A)) 66.0
Standard (dB(A)) 70 115

Reference Method : ISO 1996-1 : 2016

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 :

Project Name : Environmental Quality Monitoring

Project Location : AIE_PG Plant

Lot ID: 2581899

Date Received : Oct 14, 2025

Date Reported : Oct 29, 2025

Report Number: 3430839-1C16

Page 1 of 1

Sample Number 2581899-5
Parameter Noise (Leq 24 hrs.)
Location บริเวณริมรั้วของโครงการทางด้านทิศตะวันตกของพื้นที่ HPPO (GPS 47P 0726777, 1405417)
Measurement Date Oct 10 - Oct 11, 2025
Measurement by Chatchai Sukpia
Sound Level meter Serial No. 710639

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
10:00 AM - 11:00 AM	61.7	90.8	57.1
11:00 AM - 12:00 PM	58.1	75.2	55.8
12:00 PM - 01:00 PM	62.7	89.1	58.9
01:00 PM - 02:00 PM	60.1	76.6	58.2
02:00 PM - 03:00 PM	60.5	77.8	59.0
03:00 PM - 04:00 PM	60.8	74.2	59.5
04:00 PM - 05:00 PM	63.4	86.9	59.9
05:00 PM - 06:00 PM	61.6	78.8	59.8
06:00 PM - 07:00 PM	62.2	87.5	59.9
07:00 PM - 08:00 PM	60.4	73.3	59.2
08:00 PM - 09:00 PM	60.8	75.1	59.8
09:00 PM - 10:00 PM	60.7	76.5	60.0
10:00 PM - 11:00 PM	60.3	68.2	59.7
11:00 PM - 12:00 AM	60.1	71.3	59.5
12:00 AM - 01:00 AM	60.4	82.1	59.5
01:00 AM - 02:00 AM	59.4	68.9	59.0
02:00 AM - 03:00 AM	59.0	65.1	58.6
03:00 AM - 04:00 AM	59.3	74.2	58.9
04:00 AM - 05:00 AM	59.3	72.4	58.9
05:00 AM - 06:00 AM	60.9	84.3	59.4
06:00 AM - 07:00 AM	61.3	82.1	59.3
07:00 AM - 08:00 AM	61.1	83.6	58.0
08:00 AM - 09:00 AM	60.6	86.4	57.5
09:00 AM - 10:00 AM	59.5	78.1	58.2

Leq Average 24 hrs. (dB(A)) 60.8
Lmax (dB(A)) 90.8
L90 (dB(A)) 59.0
Ldn (dB(A)) 66.6
Standard (dB(A)) 70 115

Reference Method : ISO 1996-1 : 2016

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 :

Project Name : Environmental Quality Monitoring

Project Location : AIE_PG Plant

Lot ID: 2581899

Date Received : Oct 14, 2025

Date Reported : Oct 29, 2025

Report Number: 3430840-1C16

Page 1 of 1

Sample Number 2581899-6
Parameter Noise (Leq 24 hrs.)
Location บริเวณริมรั้วของโครงการทางด้านทิศตะวันตกของพื้นที่ HPPO (GPS 47P 0726777, 1405417)
Measurement Date Oct 11 - Oct 12, 2025
Measurement by Chatchai Sukpia
Sound Level meter Serial No. 710639

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
10:00 AM - 11:00 AM	59.1	75.5	57.8
11:00 AM - 12:00 PM	58.9	72.4	57.5
12:00 PM - 01:00 PM	59.9	80.9	57.8
01:00 PM - 02:00 PM	61.7	93.8	59.3
02:00 PM - 03:00 PM	59.4	75.4	57.8
03:00 PM - 04:00 PM	58.3	74.9	56.9
04:00 PM - 05:00 PM	59.5	81.6	57.3
05:00 PM - 06:00 PM	58.7	74.7	57.3
06:00 PM - 07:00 PM	59.9	79.2	57.6
07:00 PM - 08:00 PM	59.3	77.1	58.3
08:00 PM - 09:00 PM	60.6	79.6	58.8
09:00 PM - 10:00 PM	66.9	76.6	64.2
10:00 PM - 11:00 PM	64.5	84.8	61.4
11:00 PM - 12:00 AM	60.7	79.0	58.9
12:00 AM - 01:00 AM	60.0	82.5	58.5
01:00 AM - 02:00 AM	60.5	71.8	58.6
02:00 AM - 03:00 AM	60.6	74.6	58.7
03:00 AM - 04:00 AM	60.8	76.1	59.1
04:00 AM - 05:00 AM	60.0	74.1	59.0
05:00 AM - 06:00 AM	59.4	70.4	58.7
06:00 AM - 07:00 AM	60.7	72.9	59.4
07:00 AM - 08:00 AM	60.9	81.6	59.2
08:00 AM - 09:00 AM	59.2	74.3	58.3
09:00 AM - 10:00 AM	57.9	72.4	57.3

Leq Average 24 hrs. (dB(A)) 60.9
Lmax (dB(A)) 93.8
L90 (dB(A)) 58.5
Ldn (dB(A)) 67.4
Standard (dB(A)) 70 115

Reference Method : ISO 1996-1 : 2016

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 :

Project Name : Environmental Quality Monitoring

Project Location : AIE_PG Plant

Lot ID: 2581899

Date Received : Oct 14, 2025

Date Reported : Oct 29, 2025

Report Number: 3430841-1C16

Page 1 of 1

Sample Number 2581899-7
Parameter Noise (Leq 24 hrs.)
Location บริเวณริมรั้วของโครงการทางด้านทิศตะวันตกของพื้นที่ HPPO (GPS 47P 0726777, 1405417)
Measurement Date Oct 12 - Oct 13, 2025
Measurement by Chatchai Sukpia
Sound Level meter Serial No. 710639

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
10:00 AM - 11:00 AM	58.5	71.3	57.6
11:00 AM - 12:00 PM	59.6	87.1	57.2
12:00 PM - 01:00 PM	60.5	88.8	57.0
01:00 PM - 02:00 PM	58.4	79.5	57.0
02:00 PM - 03:00 PM	58.7	78.2	57.1
03:00 PM - 04:00 PM	57.9	79.2	56.6
04:00 PM - 05:00 PM	58.7	72.9	57.7
05:00 PM - 06:00 PM	59.3	78.1	58.2
06:00 PM - 07:00 PM	60.2	81.4	58.5
07:00 PM - 08:00 PM	61.2	88.7	58.3
08:00 PM - 09:00 PM	59.8	84.4	58.6
09:00 PM - 10:00 PM	59.1	72.2	58.4
10:00 PM - 11:00 PM	59.2	69.6	58.7
11:00 PM - 12:00 AM	59.2	67.9	58.8
12:00 AM - 01:00 AM	59.8	83.0	58.7
01:00 AM - 02:00 AM	59.4	74.6	58.8
02:00 AM - 03:00 AM	59.1	72.4	58.7
03:00 AM - 04:00 AM	58.9	75.8	58.2
04:00 AM - 05:00 AM	58.3	66.9	57.9
05:00 AM - 06:00 AM	59.2	75.7	58.6
06:00 AM - 07:00 AM	60.3	74.8	58.7
07:00 AM - 08:00 AM	60.5	80.6	58.3
08:00 AM - 09:00 AM	58.4	73.1	57.4
09:00 AM - 10:00 AM	58.3	70.5	57.4

Leq Average 24 hrs. (dB(A)) 59.4
Lmax (dB(A)) 88.8
L90 (dB(A)) 58.2
Ldn (dB(A)) 65.7
Standard (dB(A)) 70 115

Reference Method : ISO 1996-1 : 2016

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 :

Project Name : Environmental Quality Monitoring

Project Location : AIE_PG Plant

Lot ID: 2581900

Date Received : Oct 14, 2025

Date Reported : Oct 29, 2025

Report Number: 3430881-1C16

Page 1 of 1

Sample Number 2581900-1
Parameter Noise (Leq 24 hrs.)
Location บริเวณริมรั้วของโครงการทางด้านทิศใต้ของพื้นที่ HPPO (ข้างปั๊ม รปภ บล็อก 45) (GPS 47P 0727136, 1404550)
Measurement Date Oct 06 - Oct 07, 2025
Measurement by Chatchai Sukpia
Sound Level meter Serial No. 710640

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
10:00 AM - 11:00 AM	49.1	73.0	46.0
11:00 AM - 12:00 PM	49.9	70.7	45.5
12:00 PM - 01:00 PM	48.6	69.6	45.6
01:00 PM - 02:00 PM	48.6	69.0	46.4
02:00 PM - 03:00 PM	56.2	82.2	45.7
03:00 PM - 04:00 PM	50.0	70.5	45.8
04:00 PM - 05:00 PM	52.2	74.6	47.8
05:00 PM - 06:00 PM	50.6	71.9	48.1
06:00 PM - 07:00 PM	51.6	73.5	48.1
07:00 PM - 08:00 PM	49.4	68.9	47.6
08:00 PM - 09:00 PM	50.1	70.1	47.3
09:00 PM - 10:00 PM	48.5	69.1	47.2
10:00 PM - 11:00 PM	49.5	67.2	47.1
11:00 PM - 12:00 AM	48.4	62.2	46.8
12:00 AM - 01:00 AM	57.3	72.8	54.7
01:00 AM - 02:00 AM	53.2	74.2	49.5
02:00 AM - 03:00 AM	49.9	67.7	48.9
03:00 AM - 04:00 AM	50.9	68.2	49.0
04:00 AM - 05:00 AM	51.8	69.9	49.5
05:00 AM - 06:00 AM	51.7	72.8	50.3
06:00 AM - 07:00 AM	55.3	76.5	51.2
07:00 AM - 08:00 AM	57.2	80.4	49.7
08:00 AM - 09:00 AM	50.6	73.2	47.5
09:00 AM - 10:00 AM	49.3	71.8	46.3

Leq Average 24 hrs. (dB(A)) 52.2
Lmax (dB(A)) 82.2
L90 (dB(A)) 47.5
Ldn (dB(A)) 59.2
Standard (dB(A)) 70 115

Reference Method : ISO 1996-1 : 2016

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

Suppt 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 :

Project Name : Environmental Quality Monitoring

Project Location : AIE_PG Plant

Lot ID: 2581900

Date Received : Oct 14, 2025

Date Reported : Oct 29, 2025

Report Number: 3430882-1C16

Page 1 of 1

Sample Number 2581900-2
Parameter Noise (Leq 24 hrs.)
Location บริเวณริมรั้วของโครงการทางด้านทิศใต้ของพื้นที่ HPPO (ข้างปั๊ม รปภ บล็อก 45) (GPS 47P 0727136, 1404550)
Measurement Date Oct 07 - Oct 08, 2025
Measurement by Chatchai Sukpia
Sound Level meter Serial No. 710640

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
10:00 AM - 11:00 AM	51.9	78.6	46.3
11:00 AM - 12:00 PM	49.4	74.7	45.7
12:00 PM - 01:00 PM	49.2	71.7	45.8
01:00 PM - 02:00 PM	47.8	65.3	45.6
02:00 PM - 03:00 PM	54.3	77.2	46.0
03:00 PM - 04:00 PM	52.8	72.3	46.8
04:00 PM - 05:00 PM	53.8	73.6	49.0
05:00 PM - 06:00 PM	50.7	73.3	48.0
06:00 PM - 07:00 PM	51.2	73.3	48.7
07:00 PM - 08:00 PM	49.9	66.6	47.9
08:00 PM - 09:00 PM	50.8	72.6	47.3
09:00 PM - 10:00 PM	58.5	72.3	52.1
10:00 PM - 11:00 PM	58.0	71.2	53.5
11:00 PM - 12:00 AM	55.6	71.2	51.8
12:00 AM - 01:00 AM	56.1	74.5	52.2
01:00 AM - 02:00 AM	54.6	75.3	51.3
02:00 AM - 03:00 AM	54.2	75.9	50.3
03:00 AM - 04:00 AM	50.3	65.8	49.5
04:00 AM - 05:00 AM	51.0	66.7	49.5
05:00 AM - 06:00 AM	52.4	71.5	50.5
06:00 AM - 07:00 AM	54.8	79.1	51.1
07:00 AM - 08:00 AM	54.4	72.9	49.2
08:00 AM - 09:00 AM	49.3	72.7	46.9
09:00 AM - 10:00 AM	48.0	64.5	46.2

Leq Average 24 hrs. (dB(A)) 53.5
Lmax (dB(A)) 79.1
L90 (dB(A)) 48.7
Ldn (dB(A)) 60.9
Standard (dB(A)) 70 115

Reference Method : ISO 1996-1 : 2016

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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Life Sciences

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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 :

Project Name : Environmental Quality Monitoring

Project Location : AIE_PG Plant

Lot ID: 2581900

Date Received : Oct 14, 2025

Date Reported : Oct 29, 2025

Report Number: 3430883-1C16

Page 1 of 1

Sample Number 2581900-3
Parameter Noise (Leq 24 hrs.)
Location บริเวณริมรั้วของโครงการทางด้านทิศใต้ของพื้นที่ HPPO (ข้างปั๊ม รปภ บล็อก 45) (GPS 47P 0727136, 1404550)
Measurement Date Oct 08 - Oct 09, 2025
Measurement by Chatchai Sukpia
Sound Level meter Serial No. 710640

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
10:00 AM - 11:00 AM	49.4	75.1	46.8
11:00 AM - 12:00 PM	49.8	69.7	47.2
12:00 PM - 01:00 PM	50.5	71.4	47.7
01:00 PM - 02:00 PM	50.8	65.1	48.6
02:00 PM - 03:00 PM	51.4	74.1	48.1
03:00 PM - 04:00 PM	52.0	74.9	49.0
04:00 PM - 05:00 PM	53.1	73.3	49.3
05:00 PM - 06:00 PM	53.0	74.2	51.2
06:00 PM - 07:00 PM	52.9	71.7	50.5
07:00 PM - 08:00 PM	55.0	70.9	53.0
08:00 PM - 09:00 PM	51.6	70.9	48.7
09:00 PM - 10:00 PM	51.2	71.9	49.0
10:00 PM - 11:00 PM	53.8	72.2	49.5
11:00 PM - 12:00 AM	52.1	70.2	49.5
12:00 AM - 01:00 AM	51.5	70.7	49.2
01:00 AM - 02:00 AM	51.7	68.4	49.4
02:00 AM - 03:00 AM	51.1	67.7	49.5
03:00 AM - 04:00 AM	55.3	78.5	50.1
04:00 AM - 05:00 AM	52.1	68.8	50.2
05:00 AM - 06:00 AM	52.4	74.4	51.2
06:00 AM - 07:00 AM	54.6	78.5	51.7
07:00 AM - 08:00 AM	54.6	73.4	50.6
08:00 AM - 09:00 AM	57.3	74.9	53.9
09:00 AM - 10:00 AM	50.0	67.4	48.1

Leq Average 24 hrs. (dB(A)) 52.8
Lmax (dB(A)) 78.5
L90 (dB(A)) 49.4
Ldn (dB(A)) 59.3
Standard (dB(A)) 70 115

Reference Method : ISO 1996-1 : 2016

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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Life Sciences

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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 :

Project Name : Environmental Quality Monitoring

Project Location : AIE_PG Plant

Lot ID: 2581900

Date Received : Oct 14, 2025

Date Reported : Oct 29, 2025

Report Number: 3430884-1C16

Page 1 of 1

Sample Number 2581900-4
Parameter Noise (Leq 24 hrs.)
Location บริเวณริมรั้วของโครงการทางด้านทิศใต้ของพื้นที่ HPPO (ข้างปั๊ม รปภ บล็อก 45) (GPS 47P 0727136, 1404550)
Measurement Date Oct 09 - Oct 10, 2025
Measurement by Chatchai Sukpia
Sound Level meter Serial No. 710640

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
10:00 AM - 11:00 AM	49.9	70.5	47.7
11:00 AM - 12:00 PM	50.0	72.9	47.4
12:00 PM - 01:00 PM	57.0	89.2	51.6
01:00 PM - 02:00 PM	64.2	90.6	50.2
02:00 PM - 03:00 PM	56.2	73.8	48.2
03:00 PM - 04:00 PM	51.0	74.3	48.4
04:00 PM - 05:00 PM	53.9	78.6	49.5
05:00 PM - 06:00 PM	51.6	73.3	49.1
06:00 PM - 07:00 PM	52.8	75.3	50.6
07:00 PM - 08:00 PM	51.6	73.6	50.5
08:00 PM - 09:00 PM	51.9	66.8	50.3
09:00 PM - 10:00 PM	52.9	68.5	50.4
10:00 PM - 11:00 PM	53.3	70.0	50.7
11:00 PM - 12:00 AM	51.7	68.3	49.7
12:00 AM - 01:00 AM	53.0	78.6	50.2
01:00 AM - 02:00 AM	52.8	70.5	50.0
02:00 AM - 03:00 AM	51.5	54.7	50.8
03:00 AM - 04:00 AM	53.2	73.3	51.3
04:00 AM - 05:00 AM	52.5	68.7	51.6
05:00 AM - 06:00 AM	53.5	74.2	52.1
06:00 AM - 07:00 AM	56.6	76.6	51.9
07:00 AM - 08:00 AM	52.6	75.2	49.3
08:00 AM - 09:00 AM	50.0	68.7	48.0
09:00 AM - 10:00 AM	62.7	98.0	48.7

Leq Average 24 hrs. (dB(A)) 55.8
Lmax (dB(A)) 98.0
L90 (dB(A)) 50.2
Ldn (dB(A)) 60.5
Standard (dB(A)) 70 115

Reference Method : ISO 1996-1 : 2016

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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Life Sciences

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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 :

Project Name : Environmental Quality Monitoring

Project Location : AIE_PG Plant

Lot ID: 2581900

Date Received : Oct 14, 2025

Date Reported : Oct 29, 2025

Report Number: 3430885-1C16

Page 1 of 1

Sample Number 2581900-5
Parameter Noise (Leq 24 hrs.)
Location บริเวณริมรั้วของโครงการทางด้านทิศใต้ของพื้นที่ HPPO (ข้างปั๊ม รปภ บล็อก 45) (GPS 47P 0727136, 1404550)
Measurement Date Oct 10 - Oct 11, 2025
Measurement by Chatchai Sukpia
Sound Level meter Serial No. 710640

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
10:00 AM - 11:00 AM	60.4	98.9	46.9
11:00 AM - 12:00 PM	49.7	71.7	46.1
12:00 PM - 01:00 PM	62.0	89.8	53.6
01:00 PM - 02:00 PM	52.1	69.3	50.1
02:00 PM - 03:00 PM	56.4	79.9	50.6
03:00 PM - 04:00 PM	54.6	70.8	53.0
04:00 PM - 05:00 PM	55.6	72.3	53.3
05:00 PM - 06:00 PM	53.0	74.0	51.6
06:00 PM - 07:00 PM	54.4	81.7	51.8
07:00 PM - 08:00 PM	52.5	73.9	51.0
08:00 PM - 09:00 PM	52.0	68.0	51.2
09:00 PM - 10:00 PM	53.3	73.1	51.1
10:00 PM - 11:00 PM	51.4	58.7	50.8
11:00 PM - 12:00 AM	52.3	68.6	50.8
12:00 AM - 01:00 AM	52.0	66.4	51.1
01:00 AM - 02:00 AM	52.1	68.7	50.5
02:00 AM - 03:00 AM	51.4	71.3	49.3
03:00 AM - 04:00 AM	50.5	57.2	50.0
04:00 AM - 05:00 AM	51.4	65.2	50.6
05:00 AM - 06:00 AM	53.6	76.0	51.4
06:00 AM - 07:00 AM	53.2	73.6	50.6
07:00 AM - 08:00 AM	52.2	72.6	47.6
08:00 AM - 09:00 AM	49.6	69.2	47.9
09:00 AM - 10:00 AM	67.3	84.8	58.6

Leq Average 24 hrs. (dB(A)) 57.0
Lmax (dB(A)) 98.9
L90 (dB(A)) 50.8
Ldn (dB(A)) 60.2
Standard (dB(A)) 70 115

Reference Method : ISO 1996-1 : 2016

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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Life Sciences

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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 :

Project Name : Environmental Quality Monitoring

Project Location : AIE_PG Plant

Lot ID: 2581900

Date Received : Oct 14, 2025

Date Reported : Oct 29, 2025

Report Number: 3430886-1C16

Page 1 of 1

Sample Number 2581900-6
Parameter Noise (Leq 24 hrs.)
Location บริเวณริมรั้วของโครงการทางด้านทิศใต้ของพื้นที่ HPPO (ข้างปั๊ม รปภ บล็อก 45) (GPS 47P 0727136, 1404550)
Measurement Date Oct 11 - Oct 12, 2025
Measurement by Chatchai Sukpia
Sound Level meter Serial No. 710640

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
10:00 AM - 11:00 AM	56.2	85.9	48.4
11:00 AM - 12:00 PM	48.6	63.7	46.6
12:00 PM - 01:00 PM	54.8	69.5	52.2
01:00 PM - 02:00 PM	57.1	87.4	53.1
02:00 PM - 03:00 PM	55.5	78.3	49.7
03:00 PM - 04:00 PM	48.9	62.3	47.1
04:00 PM - 05:00 PM	49.7	69.3	46.8
05:00 PM - 06:00 PM	49.9	67.7	47.5
06:00 PM - 07:00 PM	53.0	69.2	50.3
07:00 PM - 08:00 PM	52.4	68.1	50.1
08:00 PM - 09:00 PM	62.7	78.6	59.2
09:00 PM - 10:00 PM	56.3	71.1	52.3
10:00 PM - 11:00 PM	54.2	69.2	51.7
11:00 PM - 12:00 AM	54.0	75.6	51.3
12:00 AM - 01:00 AM	52.3	71.0	50.8
01:00 AM - 02:00 AM	51.5	61.7	50.7
02:00 AM - 03:00 AM	54.0	74.2	50.8
03:00 AM - 04:00 AM	51.9	76.5	51.0
04:00 AM - 05:00 AM	51.2	66.7	50.6
05:00 AM - 06:00 AM	54.6	82.6	51.2
06:00 AM - 07:00 AM	54.7	70.4	52.8
07:00 AM - 08:00 AM	53.1	68.7	51.4
08:00 AM - 09:00 AM	51.2	70.5	49.5
09:00 AM - 10:00 AM	52.7	74.9	47.7

Leq Average 24 hrs. (dB(A)) 54.7
Lmax (dB(A)) 87.4
L90 (dB(A)) 50.7
Ldn (dB(A)) 60.1
Standard (dB(A)) 70 115

Reference Method : ISO 1996-1 : 2016

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 :

Project Name : Environmental Quality Monitoring

Project Location : AIE_PG Plant

Lot ID: 2581900

Date Received : Oct 14, 2025

Date Reported : Oct 29, 2025

Report Number: 3430887-1C16

Page 1 of 1

Sample Number 2581900-7
Parameter Noise (Leq 24 hrs.)
Location บริเวณริมรั้วของโครงการทางด้านทิศใต้ของพื้นที่ HPPO (ข้างปั๊ม ปรก บล็อก 45) (GPS 47P 0727136, 1404550)
Measurement Date Oct 12 - Oct 13, 2025
Measurement by Chatchai Sukpia
Sound Level meter Serial No. 710640

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
10:00 AM - 11:00 AM	48.4	63.3	47.1
11:00 AM - 12:00 PM	47.6	68.9	46.0
12:00 PM - 01:00 PM	47.4	65.4	45.5
01:00 PM - 02:00 PM	47.9	72.6	45.6
02:00 PM - 03:00 PM	54.9	79.5	45.9
03:00 PM - 04:00 PM	47.3	67.0	45.8
04:00 PM - 05:00 PM	48.9	64.9	47.0
05:00 PM - 06:00 PM	49.7	67.0	47.7
06:00 PM - 07:00 PM	52.2	71.0	48.6
07:00 PM - 08:00 PM	50.4	70.1	48.5
08:00 PM - 09:00 PM	51.6	68.8	48.9
09:00 PM - 10:00 PM	51.0	65.5	49.2
10:00 PM - 11:00 PM	50.9	60.9	49.4
11:00 PM - 12:00 AM	51.0	70.2	49.3
12:00 AM - 01:00 AM	50.2	56.0	49.2
01:00 AM - 02:00 AM	50.2	59.3	49.5
02:00 AM - 03:00 AM	50.1	75.0	48.9
03:00 AM - 04:00 AM	50.3	69.8	47.6
04:00 AM - 05:00 AM	51.0	71.3	48.6
05:00 AM - 06:00 AM	53.0	81.2	50.2
06:00 AM - 07:00 AM	53.2	72.6	50.4
07:00 AM - 08:00 AM	51.6	70.7	48.9
08:00 AM - 09:00 AM	53.7	77.4	47.8
09:00 AM - 10:00 AM	49.5	67.5	47.4

Leq Average 24 hrs. (dB(A)) 51.0
Lmax (dB(A)) 81.2
L90 (dB(A)) 48.5
Ldn (dB(A)) 57.6
Standard (dB(A)) 70 115

Reference Method : ISO 1996-1 : 2016

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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ภาคผนวก ค-4

ผลการตรวจวิเคราะห์คุณภาพน้ำเสียจากกระบวนการผลิต



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 : 4516938822
Project Name : Water Testing
Project Location : AIE_PG Plant

Lot ID: 2560114

Date Received : Jul 02, 2025
Date Reported : Jul 11, 2025
Report Number : 3358005-1

Page 1 of 1

Sample Number 2560114-1
Sampled Date Jul 02, 2025 11:06 AM
Sample Description Wastewater
Location PG Process
Date Analysis Commenced Jul 02, 2025
Condition of Sample Contained in two glass vials, three amber glass bottle 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	6962	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	43566	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 : Surawit Narapong ทะเบียนเลขที่ ว-323-จ-0011 , Pattarapol Sawangjaitam ทะเบียนเลขที่ ว-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.
- Sampling is not included in scope of accreditation ISO/IEC 17025

Technical Management

Photchana S

Photchana Seeda
Scientist (4)

ทะเบียนเลขที่ ว-323-จ-0028

Approved by

D. Chamon.

Dej Changchon
Senior Manager

ทะเบียนเลขที่ ว-323-ค-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 : 4516938822
Project Name : Water Testing
Project Location : AIE_PG Plant

Lot ID: 2560114

Date Received : Jul 02, 2025
Date Reported : Jul 11, 2025
Report Number : 3358005-2

Page 1 of 1

Sample Number 2560114-1
Sampled Date Jul 02, 2025 11:06 AM
Sample Description Wastewater
Location PG Process
Date Analysis Commenced Jul 03, 2025
Condition of Sample Contained in two glass vials, three amber glass bottle 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	15750	In-house method based on United States Environmental Protection Agency, EPA Method 8015 B	Bangkok
Total Organic Carbon	mg/L	0.01	0.1	11652	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, 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

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. The report shall not be reproduced except in full without the written approval of the laboratory.



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 : 4516938822
Project Name : Water Testing
Project Location : AIE_PG Plant

Lot ID: 2571030

Date Received : Aug 06, 2025
Date Reported : Aug 15, 2025
Report Number : 3382933-1

Page 1 of 1

Sample Number 2571030-1
Sampled Date Aug 06, 2025 11:00 AM
Sample Description Wastewater
Location PG Process
Date Analysis Commenced Aug 06, 2025
Condition of Sample Contained in three amber glass bottles, two glass vials and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Method	Testing Location
Water Testing						
BOD (5 days at 20 Degree C)	mg/L	-	2.0	5282	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	41673	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 ว-323-จ-0038 , Thanasoun Namakunna ทะเบียนเลขที่ ว-204-จ-0101

Remark :

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- Sampling is not included in scope of accreditation ISO/IEC 17025

Technical Management

Photchana S

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

Approved by

D. Chamon.

Dej Changchon
Senior Manager
ทะเบียนเลขที่ ว-323-ค-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 : 4516938822
Project Name : Water Testing
Project Location : AIE_PG Plant

Lot ID: 2571030

Date Received : Aug 06, 2025
Date Reported : Aug 15, 2025
Report Number : 3382933-2

Page 1 of 1

Sample Number 2571030-1
Sampled Date Aug 06, 2025 11:00 AM
Sample Description Wastewater
Location PG Process
Date Analysis Commenced Aug 07, 2025
Condition of Sample Contained in three amber glass bottles, two glass vials and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Method	Testing Location
Water Testing						
Propylene Glycol	mg/L	-	1.0	13199	In-house method based on United States Environmental Protection Agency, EPA Method 8015 B	Bangkok
Total Organic Carbon	mg/L	0.01	0.1	9720	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5310 B	Bangkok

Sampling By : Wanlop Hunchainaw , Thanasoun Namakunna

Remark :

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

Approved by

Suwimon C.

Suwimon Chairuangwut
Scientist (3)

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. The report shall not be reproduced except in full without the written approval of the laboratory.



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 : 4516938822
Project Name : Water Testing
Project Location : AIE_PG Plant

Lot ID: 2580153

Date Received : Sep 08, 2025
Date Reported : Sep 16, 2025
Report Number : 3407642-1

Page 1 of 1

Sample Number 2580153-1
Sampled Date Sep 08, 2025 10:43 AM
Sample Description Wastewater
Location PG Process
Date Analysis Commenced Sep 08, 2025
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	3440	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	21563	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		-	-	4.3	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 ว-323-จ-0038 , Pattarapol Sawangjaitam ทะเบียนเลขที่ ว-204-จ-0002

Remark :

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- Sampling is not included in scope of accreditation ISO/IEC 17025

Technical Management

Photchana S

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

Approved by

D. Chumman

Dej Changchon
Senior Manager
ทะเบียนเลขที่ ว-323-ค-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 : 4516938822
Project Name : Water Testing
Project Location : AIE_PG Plant

Lot ID: 2580153

Date Received : Sep 08, 2025
Date Reported : Sep 16, 2025
Report Number : 3407642-2

Page 1 of 1

Sample Number 2580153-1
Sampled Date Sep 08, 2025 10:43 AM
Sample Description Wastewater
Location PG Process
Date Analysis Commenced Sep 10, 2025
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	6208	In-house method based on United States Environmental Protection Agency, EPA Method 8015 B	Bangkok
Total Organic Carbon	mg/L	0.01	0.1	6586	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 :

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

Approved by

Suwimon C.

Suwimon Chairuangwut
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 : 4516938822
Project Name : Water Testing
Project Location : AIE_PG Plant

Lot ID: 2589026

Date Received : Oct 07, 2025
Date Reported : Oct 16, 2025
Report Number : 3428724-1

Page 1 of 1

Sample Number 2589026-1
Sampled Date Oct 07, 2025 10:41 AM
Sample Description Wastewater
Location PG Process
Date Analysis Commenced Oct 07, 2025
Condition of Sample Contained in two amber glass bottles, two glass vials and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Method	Testing Location
Water Testing						
BOD (5 days at 20 Degree C)	mg/L	-	2.0	8524	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	46257	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 : Chainusorn Lertnanthakunchai ทะเบียนเลขที่ ว-323-จ-0041

Remark :

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Technical Management

Photchana S

Photchana Seeda
Scientist (4)

ทะเบียนเลขที่ ว-323-จ-0028

Approved by

D. Chamon.

Dej Changchon
Senior Manager

ทะเบียนเลขที่ ว-323-ค-0001

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Analysis / Test Report

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10 Moo 2, Asia Industrial Estate, Tambol Banchang, Amphur Banchang, Rayong Thailand
21130
P/O : 4516938822
Project Name : Water Testing
Project Location : AIE_PG Plant

Lot ID: 2589026

Date Received : Oct 07, 2025

Date Reported : Oct 16, 2025

Report Number : 3428724-2

Page 1 of 1

Sample Number 2589026-1
Sampled Date Oct 07, 2025 10:41 AM
Sample Description Wastewater
Location PG Process
Date Analysis Commenced Oct 08, 2025
Condition of Sample Contained in two amber glass bottles, two glass vials and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Method	Testing Location
Water Testing						
Propylene Glycol	mg/L	-	1.0	7386	In-house method based on United States Environmental Protection Agency, EPA Method 8015 B	Bangkok
Total Organic Carbon	mg/L	0.01	0.1	6986	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5310 B	Bangkok

Sampling By : Chainusorn Lertnanthakunchai , Pattarapol Sawangjaitam

Remark :

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Approved by

Suwimon C.

Suwimon Chairuangwut
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 : 4516938822
Project Name : Water Testing
Project Location : AIE_PG Plant

Lot ID: 2598204

Date Received : Nov 05, 2025
Date Reported : Nov 13, 2025
Report Number : 3449592-1

Page 1 of 1

Sample Number 2598204-1
Sampled Date Nov 05, 2025 10:40 AM
Sample Description Wastewater
Location PG Process
Date Analysis Commenced Nov 05, 2025
Condition of Sample Contained in two glass vials, three amber glass bottle 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	7599	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	31838	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 : Sansoen Khuiyoksui ทะเบียนเลขที่ ว-323-จ-0005 , Thanasoun Namakunna ทะเบียนเลขที่ ว-204-จ-0101

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Technical Management

Photchana S

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

Approved by

D. Chamon.

Dej Changchon
Senior Manager
ทะเบียนเลขที่ ว-323-ค-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 : 4516938822
Project Name : Water Testing
Project Location : AIE_PG Plant

Lot ID: 2598204

Date Received : Nov 05, 2025
Date Reported : Nov 13, 2025
Report Number : 3449592-2

Page 1 of 1

Sample Number	2598204-1
Sampled Date	Nov 05, 2025 10:40 AM
Sample Description	Wastewater
Location	PG Process
Date Analysis Commenced	Nov 06, 2025
Condition of Sample	Contained in two glass vials, three amber glass bottle 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	8989	In-house method based on United States Environmental Protection Agency, EPA Method 8015 B	Bangkok
Total Organic Carbon	mg/L	0.01	0.1	7568	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5310 B	Bangkok

Sampling By : Sansoen Khuiyoksui , Thanasoun Namakunna

Remark :

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

Approved by

Suwimon C.

Suwimon Chairuangwut
Scientist (3)

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. The report shall not be reproduced except in full without the written approval of the laboratory.



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 : 4516938822
Project Name : Water Testing
Project Location : AIE_PG Plant

Lot ID: 25107553

Date Received : Dec 03, 2025
Date Reported : Dec 13, 2025
Report Number : 3470955-1

Page 1 of 1

Sample Number 25107553-1
Sampled Date Dec 03, 2025 11:00 AM
Sample Description Wastewater
Location PG Process
Date Analysis Commenced Dec 03, 2025
Condition of Sample Contained in two amber glass bottle, two glass vials and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Method	Testing Location
Water Testing						
BOD (5 days at 20 Degree C)	mg/L	-	2.0	4440	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	32278	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 : Chainusorn Lertnanthakunchai ทะเบียนเลขที่ ว-323-จ-0041 , Pattarapol Sawangjaitam ทะเบียนเลขที่ ว-204-จ-0002

Remark :

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Technical Management

Photchana S

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

Approved by

D. Chamon.

Dej Changchon
Senior Manager
ทะเบียนเลขที่ ว-323-ค-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 : 4516938822
Project Name : Water Testing
Project Location : AIE_PG Plant

Lot ID: 25107553

Date Received : Dec 03, 2025

Date Reported : Dec 13, 2025

Report Number : 3470955-2

Page 1 of 1

Sample Number 25107553-1
Sampled Date Dec 03, 2025 11:00 AM
Sample Description Wastewater
Location PG Process
Date Analysis Commenced Dec 04, 2025
Condition of Sample Contained in two amber glass bottle, two glass vials and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Method	Testing Location
Water Testing						
Propylene Glycol	mg/L	-	1.0	13555	In-house method based on United States Environmental Protection Agency, EPA Method 8015 B	Bangkok
Total Organic Carbon	mg/L	0.01	0.1	9054	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5310 B	Bangkok

Sampling By : Chainusorn Lertnanthakunchai , Pattarapol Sawangjaitam

Remark :

- LOD : Limit of Detection
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Approved by

Nanthawadee Somboon

Specialist 2

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. The report shall not be reproduced except in full without the written approval of the laboratory.

ภาคผนวก ค-5

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 : 4516938822
Project Name : Water Testing
Project Location : AIE_PG Plant

Lot ID: 2560114

Date Received : Jul 02, 2025
Date Reported : Jul 11, 2025
Report Number : 3358006-1

Page 1 of 1

Sample Number 2560114-2
Sampled Date Jul 02, 2025 11:40 AM
Sample Description Wastewater
Location Effluent PG
Date Analysis Commenced Jul 03, 2025
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

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. The report shall not be reproduced except in full without the written approval of the laboratory.



Analysis / Test Report

Client : Dow Chemical Thailand Ltd.
10 Moo 2, Asia Industrial Estate, Tambol Banchang, Amphur Banchang, Rayong Thailand
21130
P/O : 4516938822
Project Name : Water Testing
Project Location : AIE_PG Plant

Lot ID: 2571030

Date Received : Aug 06, 2025
Date Reported : Aug 15, 2025
Report Number : 3382934-1

Page 1 of 1

Sample Number 2571030-2
Sampled Date Aug 06, 2025 1:40 PM
Sample Description Wastewater
Location Effluent PG
Date Analysis Commenced Aug 07, 2025
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

Suwimon C.

Suwimon Chairuangwut
Scientist (3)

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. The report shall not be reproduced except in full without the written approval of the laboratory.



Analysis / Test Report

Client : Dow Chemical Thailand Ltd.
10 Moo 2, Asia Industrial Estate, Tambol Banchang, Amphur Banchang, Rayong Thailand
21130
P/O : 4516938822
Project Name : Water Testing
Project Location : AIE_PG Plant

Lot ID: 2580153

Date Received : Sep 08, 2025
Date Reported : Sep 16, 2025
Report Number : 3407643-1

Page 1 of 1

Sample Number 2580153-2
Sampled Date Sep 08, 2025 11:43 AM
Sample Description Wastewater
Location Effluent PG
Date Analysis Commenced Sep 10, 2025
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

Suwimon C.

Suwimon Chairuangwut
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 : 4516938822
Project Name : Water Testing
Project Location : AIE_PG Plant

Lot ID: 2589026

Date Received : Oct 07, 2025
Date Reported : Oct 16, 2025
Report Number : 3428725-1

Page 1 of 1

Sample Number 2589026-2
Sampled Date Oct 07, 2025 11:27 AM
Sample Description Wastewater
Location Effluent PG
Date Analysis Commenced Oct 08, 2025
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 : Chainusorn Lertnanthakunchai , Pattarapol Sawangjaitam

Remark :

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

Approved by

Suwimon C.

Suwimon Chairuangwut
Scientist (3)

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Analysis / Test Report

Client : Dow Chemical Thailand Ltd.
10 Moo 2, Asia Industrial Estate, Tambol Banchang, Amphur Banchang, Rayong Thailand
21130
P/O : 4516938822
Project Name : Water Testing
Project Location : AIE_PG Plant

Lot ID: 2598204

Date Received : Nov 05, 2025
Date Reported : Nov 13, 2025
Report Number : 3449593-1

Page 1 of 1

Sample Number 2598204-2
Sampled Date Nov 05, 2025 11:40 AM
Sample Description Wastewater
Location Effluent PG
Date Analysis Commenced Nov 06, 2025
Condition of Sample Contained in one amber plastic 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 : Sansoen Khuiyoksui , Thanasoun Namakunna

Remark :

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

Approved by

Suwimon C.

Suwimon Chairuangwut
Scientist (3)

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. The report shall not be reproduced except in full without the written approval of the laboratory.



Analysis / Test Report

Client : Dow Chemical Thailand Ltd.
10 Moo 2, Asia Industrial Estate, Tambol Banchang, Amphur Banchang, Rayong Thailand
21130
P/O : 4516938822
Project Name : Water Testing
Project Location : AIE_PG Plant

Lot ID: 25107553

Date Received : Dec 03, 2025

Date Reported : Dec 13, 2025

Report Number : 3470956-1

Page 1 of 1

Sample Number 25107553-2
Sampled Date Dec 03, 2025 2:05 PM
Sample Description Wastewater
Location Effluent PG
Date Analysis Commenced Dec 04, 2025
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 : Chainusorn Lertnanthakunchai , Pattarapol Sawangjaitam

Remark :

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

Approved by

Nanthawadee Somboon
Specialist 2

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. The report shall not be reproduced except in full without the written approval of the laboratory.

ภาคผนวก ค-6

ผลการตรวจวิเคราะห์คุณภาพน้ำหล่อเย็น



Analysis / Test Report

TESTING

No.0042

Lot ID: 2560114

Date Received : Jul 02, 2025

Date Reported : Jul 11, 2025

Report Number : 3358007-1

Client : Dow Chemical Thailand Ltd.

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

P/O : 4516938822

Project Name : Water Testing

Project Location: AIE_PG Plant

Page 1 of 1

Sample Number	2560114-3
Sampled Date	Jul 02, 2025 11:15 AM
Sample Description	Blowdown Water
Location	PG Cooling Tower
Date Analysis Commenced	Jul 02, 2025
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
Water Testing							
COD	mg/L	1.5	25	40	≤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	1070	≤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	<5	≤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 : Surawit Narapong ทะเบียนเลขที่ ว-323-จ-0011 , Pattarapol Sawangjaitam ทะเบียนเลขที่ ว-204-จ-0002

Remark :

- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
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- Sampling is not included in scope of accreditation ISO/IEC 17025

Technical Management

Photchana S

Photchana Seeda

Scientist (4)

ทะเบียนเลขที่ ว-323-จ-0028

Approved by

D. Changchon

Dej Changchon

Senior Manager

ทะเบียนเลขที่ ว-323-ค-0001

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Analysis / Test Report

TESTING

No.0042

Lot ID: 2571030

Date Received : Aug 06, 2025

Date Reported : Aug 15, 2025

Report Number : 3382935-1

Client : Dow Chemical Thailand Ltd.

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

P/O : 4516938822

Project Name : Water Testing

Project Location: AIE_PG Plant

Page 1 of 1

Sample Number	2571030-3
Sampled Date	Aug 06, 2025 11:10 AM
Sample Description	Blowdown Water
Location	PG Cooling Tower
Date Analysis Commenced	Aug 06, 2025
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
Water Testing							
COD	mg/L	1.5	25	59	≤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		-	-	7.3	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	1000	≤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	8	≤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 ว-323-จ-0038 , Thanasoun Namakunna ทะเบียนเลขที่ ว-204-จ-0101

Remark :

- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
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- Sampling is not included in scope of accreditation ISO/IEC 17025

Technical Management

Photchana S

Photchana Seeda

Scientist (4)

ทะเบียนเลขที่ ว-323-จ-0028

Approved by

D. Changchon

Dej Changchon

Senior Manager

ทะเบียนเลขที่ ว-323-ค-0001

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Analysis / Test Report

TESTING

No.0042

Lot ID: 2580153

Date Received : Sep 08, 2025

Date Reported : Sep 16, 2025

Report Number : 3407644-1

Client : Dow Chemical Thailand Ltd.

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

P/O : 4516938822

Project Name : Water Testing

Project Location: AIE_PG Plant

Page 1 of 1

Sample Number	2580153-3						
Sampled Date	Sep 08, 2025 10:56 AM						
Sample Description	Blowdown Water						
Location	PG Cooling Tower						
Date Analysis Commenced	Sep 08, 2025						
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
Water Testing							
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		-	-	7.2	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	1190	≤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	5	≤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 ว-323-จ-0038 , Pattarapol Sawangjaitam ทะเบียนเลขที่ ว-204-จ-0002

Remark :

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- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
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- Sampling is not included in scope of accreditation ISO/IEC 17025

Technical Management

Photchana S

Photchana Seeda

Scientist (4)

ทะเบียนเลขที่ ว-323-จ-0028

Approved by

D. Changchon

Dej Changchon

Senior Manager

ทะเบียนเลขที่ ว-323-ค-0001

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Analysis / Test Report

TESTING

No.0042

Lot ID: 2589026

Date Received : Oct 07, 2025

Date Reported : Oct 16, 2025

Report Number : 3428726-1

Client : Dow Chemical Thailand Ltd.

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

P/O : 4516938822

Project Name : Water Testing

Project Location: AIE_PG Plant

Page 1 of 1

Sample Number	2589026-3
Sampled Date	Oct 07, 2025 10:31 AM
Sample Description	Blowdown Water
Location	PG Cooling Tower
Date Analysis Commenced	Oct 07, 2025
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
Water Testing							
COD	mg/L	1.5	25	42	≤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		-	-	7.4	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	1500	≤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	8	≤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 : Chainusorn Lertnanthakunchai ทะเบียนเลขที่ ว-323-จ-0041

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.
- Sampling is not included in scope of accreditation ISO/IEC 17025

Technical Management

Photchana S

Photchana Seeda
Scientist (4)

ทะเบียนเลขที่ ว-323-จ-0028

Approved by

D. Changchon

Dej Changchon
Senior Manager

ทะเบียนเลขที่ ว-323-ค-0001

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. The report shall not be reproduced except in full without the written approval of the laboratory.

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Analysis / Test Report

TESTING

No.0042

Lot ID: 2598204

Date Received : Nov 05, 2025

Date Reported : Nov 13, 2025

Report Number : 3449594-1

Client : Dow Chemical Thailand Ltd.

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

P/O : 4516938822

Project Name : Water Testing

Project Location: AIE_PG Plant

Page 1 of 1

Sample Number	2598204-3
Sampled Date	Nov 05, 2025 11:10 AM
Sample Description	Blowdown Water
Location	PG Cooling Tower
Date Analysis Commenced	Nov 05, 2025
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
Water Testing							
COD	mg/L	1.5	25	58	≤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	1120	≤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 : Sansoen Khuiyoksui ทะเบียนเลขที่ ว-323-จ-0005 , Thanasoun Namakunna ทะเบียนเลขที่ ว-204-จ-0101

Remark :

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- Sampling is not included in scope of accreditation ISO/IEC 17025

Technical Management

Photchana S

Photchana Seeda

Scientist (4)

ทะเบียนเลขที่ ว-323-จ-0028

Approved by

D. Chumson

Dej Changchon

Senior Manager

ทะเบียนเลขที่ ว-323-ค-0001

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Analysis / Test Report

TESTING

No.0042

Lot ID: 25107553

Date Received : Dec 03, 2025

Date Reported : Dec 13, 2025

Report Number : 3470957-1

Client : Dow Chemical Thailand Ltd.

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

P/O : 4516938822

Project Name : Water Testing

Project Location: AIE_PG Plant

Page 1 of 1

Sample Number	25107553-3						
Sampled Date	Dec 03, 2025 10:45 AM						
Sample Description	Blowdown Water						
Location	PG Cooling Tower						
Date Analysis Commenced	Dec 03, 2025						
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
Water Testing							
COD	mg/L	1.5	25	39	≤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		-	-	7.8	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	1180	≤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 : Chainusorn Lertnanthakunchai ทะเบียนเลขที่ ว-323-จ-0041 , Pattarapol Sawangjaitam ทะเบียนเลขที่ ว-204-จ-0002

Remark :

- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
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- Sampling is not included in scope of accreditation ISO/IEC 17025

Technical Management

Photchana S

Photchana Seeda

Scientist (4)

ทะเบียนเลขที่ ว-323-จ-0028

Approved by

D. Chumson.

Dej Changchon

Senior Manager

ทะเบียนเลขที่ ว-323-ค-0001

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ภาคผนวก ค-7

ผลการตรวจวิเคราะห์คุณภาพน้ำใต้ดิน



Analysis / Test Report

Client : Dow Chemical Thailand Ltd.

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

P/O : 4516938843

Project Name : Environmental Quality Monitoring

Project Location: AIE_PG Plant

Lot ID: 2574261

Date Received : Aug 26, 2025

Date Reported : Sep 10, 2025

Report Number : 3385384-4

Page 1 of 1

Sample Number	2574261-1						
Sampled Date	Aug 26, 2025 11:30 AM						
Sample Description	Groundwater						
Location	MW 2						
Date Analysis Commenced	Aug 27, 2025						
Condition of Sample	Contained in four 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	Guideline / Specification	Method	Testing Location
Organic Compounds							
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 : Wanlop Hunchainaow , Thanasoun Namakunna

Remark :

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

Approved by

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 : 4516938843

Project Name : Environmental Quality Monitoring

Project Location: AIE_PG Plant

Lot ID: 2577263

Date Received : Aug 26, 2025

Date Reported : Sep 10, 2025

Report Number : 3385387-3

Page 1 of 1

Sample Number	2577263-1						
Sampled Date	Aug 26, 2025 12:05 PM						
Sample Description	Groundwater						
Location	MW 4						
Date Analysis Commenced	Aug 27, 2025						
Condition of Sample	Contained in four glass vials, three amber glass bottles and threet plastic bottles, 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/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 : Wanlop Hunchainaow , Thanasoun Namakunna

Remark :

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

Approved by

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 : 4516938843

Project Name : Environmental Quality Monitoring

Project Location: AIE_PG Plant

Lot ID: 2577264

Date Received : Aug 26, 2025

Date Reported : Sep 11, 2025

Report Number : 3385388-3

Page 1 of 1

Sample Number	2577264-1						
Sampled Date	Aug 26, 2025 10:55 AM						
Sample Description	Groundwater						
Location	MW 5						
Date Analysis Commenced	Aug 27, 2025						
Condition of Sample	Contained in four 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	Guideline / Specification	Method	Testing Location
Organic Compounds							
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 : Chainusorn Lertnanthakunchai , Jakkarin Manwicha

Remark :

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

Approved by

Nanthawadee Somboon
Specialist 2

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ภาคผนวก ค-8

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
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.3038755-2, 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)

Approved by

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
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.3038756-2, Date Reported : Jun 27, 2024 due to revise analytical information.

Sampling By : Pattarapol Sawangjaitam

Remark :

- LOD : Limit of Detection
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Approved by

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 : 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 :

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

Approved by

Nanthawadee Somboon
Specialist 2

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ภาคผนวก ค-9

ผลการตรวจวัดความร้อนในสถานที่ปฏิบัติงาน



Analysis / Test Report

Client : Dow Chemical Thailand Ltd.

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

P/O : 4516938776

Project Name : Environmental Quality Monitoring

Project Location : AIE_PG Plant

Lot ID: 2529512

Date Received : Apr 24, 2025

Date Reported : Apr 28, 2025

Report Number: 3268547-1

Page 1 of 1

Sample Number 2529512-1
Parameter Heat Stress (Sampling Time : 09.00 AM - 11.00 AM)
Measurement Date Apr 24, 2025
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	33.2	28.6	43.8	36.4
Average (WBGT)		33.2			
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

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 :

Project Name : Environmental Quality Monitoring

Project Location : AIE_PG Plant

Lot ID: 2591819

Date Received : Oct 10, 2025

Date Reported : Oct 16, 2025

Report Number: 3428751-1

Page 1 of 1

Sample Number 2591819-1
Parameter Noise (Leq 12 hrs.)
Location บริเวณพื้นที่ส่งปฏิกิริยา
Measurement Date Oct 08, 2025
Measurement by Jaradrawee Sriruksa

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
09:59 AM - 10:59 AM	75.3	86.6	74.9
10:59 AM - 11:59 AM	75.2	81.8	75.0
11:59 AM - 12:59 PM	75.2	75.7	75.1
12:59 PM - 01:59 PM	75.1	79.1	74.8
01:59 PM - 02:59 PM	75.3	82.7	75.1
02:59 PM - 03:59 PM	75.3	77.9	75.2
03:59 PM - 04:59 PM	75.4	76.5	75.3
04:59 PM - 05:59 PM	75.4	76.3	75.3
05:59 PM - 06:59 PM	75.3	75.8	75.1
06:59 PM - 07:59 PM	75.3	83.1	75.1
07:59 PM - 08:59 PM	75.1	75.6	75.0
08:59 PM - 09:59 PM	75.1	78.2	75.0

Leq Average 12 hrs. (dB(A))

75.3

Lmax (dB(A))

86.6

Standard (dB(A))

87

140

Reference Method : ISO 1996-1 : 2016

Standard : ประกาศกระทรวงอุตสาหกรรม เรื่อง มาตรการคุ้มครองความปลอดภัย

ในการประกอบกิจการโรงงานเกี่ยวกับสภาวะแวดล้อมในการทำงาน พ.ศ.๒๕๔๖

Technical Management

Thanita K.

Thanita Kulsuriwong
Scientist (4)

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 :

Project Name : Environmental Quality Monitoring

Project Location : AIE_PG Plant

Lot ID: 2591819

Date Received : Oct 10, 2025

Date Reported : Oct 16, 2025

Report Number: 3428752-1

Page 1 of 1

Sample Number 2591819-2
Parameter Noise (Leq 12 hrs.)
Location บริเวณเหนือหลอเย็น
Measurement Date Oct 08, 2025
Measurement by Jaradrawee Sriruksa

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
09:55 AM - 10:55 AM	76.3	76.8	76.2
10:55 AM - 11:55 AM	76.3	76.8	76.2
11:55 AM - 12:55 PM	76.5	76.9	76.3
12:55 PM - 01:55 PM	76.5	78.2	76.4
01:55 PM - 02:55 PM	76.5	77.9	76.3
02:55 PM - 03:55 PM	75.9	77.3	75.8
03:55 PM - 04:55 PM	76.1	76.6	76.0
04:55 PM - 05:55 PM	76.3	76.9	76.1
05:55 PM - 06:55 PM	76.3	76.8	76.2
06:55 PM - 07:55 PM	76.0	76.5	75.9
07:55 PM - 08:55 PM	76.7	77.1	76.5
08:55 PM - 09:55 PM	76.1	77.8	76.0

Leq Average 12 hrs. (dB(A))

76.3

Lmax (dB(A))

78.2

Standard (dB(A))

87

140

Reference Method : ISO 1996-1 : 2016

Standard : ประกาศกระทรวงอุตสาหกรรม เรื่อง มาตรการคุ้มครองความปลอดภัย

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Technical Management

Thanita K.

Thanita Kulsuriwong
Scientist (4)

Approved by

Supot S.

Supot Salamteh
Section Head

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ภาคผนวก ค-11

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

Lot ID: 203818

Location : AIE_PG Plant

Date Received : Jan 13, 2020

P/O :

Date Reported : Jan 17, 2020

Receipt No :

Report Number : 1561998-1

Cc. Email : PPChaiyadej@dow.com

Sampling by : Jaradrawee Sriuksa

Page 1 of 1

Reference Number 203818-1
Sampling Date Jan 13, 2020
Sample Description Air Quality
Location บริเวณพื้นที่ตั้งปฏิกิริยา
Personal Sampling คุณเกิดดิพงษ์ 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
Air Testing						
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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Approved by

Sararat Mongkonjirawut
Scientist (4)