

ภาคผนวก ค

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ใบรับรองผลการวิเคราะห์

ภาคผนวก ค-1

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คุณภาพอากาศในบรรยากาศ



## Analysis / Test Report



TESTING  
No.0009

Client : WHA Saraburi Industrial Land Co., Ltd.

111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140

P/O : 54250024

Project Name : Monitoring

Project Location : WHA SIL

Lot ID: 2531642

Date Received : Apr 30, 2025

Date Reported : May 09, 2025

Report Number: 3273125-1

Page 1 of 1

**Sample Description** Air Quality  
**Location** บริเวณสำนักงานบริษัท (GPS 47P 0698599, 1589315)  
**Date Analysis Commenced** May 02, 2025  
**Condition of Sample** Drawn into two filter paper placed in plastic cassettes

Sample Number	Sampled Date	Total Suspended Particulate (mg/m3)	Particulate Matter (PM-10) (mg/m3)	Barometric Pressure (mm Hg)	Atmospheric Temperature (°C)
2531642-1	Apr 22 - Apr 23, 2025	0.037	0.022	757*	34.0*
2531642-2	Apr 23 - Apr 24, 2025	0.041	0.021	757*	33.7*
2531642-3	Apr 24 - Apr 25, 2025	0.040	0.021	757*	33.2*
2531642-4	Apr 25 - Apr 26, 2025	0.049	0.026	757*	34.1*
2531642-5	Apr 26 - Apr 27, 2025	0.050	0.018	757*	34.5*
2531642-6	Apr 27 - Apr 28, 2025	0.033	0.023	757*	34.0*
2531642-7	Apr 28 - Apr 29, 2025	0.073	0.029	757*	34.1*
<b>Guideline</b>		0.33	0.12	-	-

### Reference Method

Total Suspended Particulate : In - house method : STM 04-051 based on U.S. Environmental Protection Agency 40 CFR, method 50, Appendix B, revised as of July 1, 2008 (Include sampling)

Particulate Matter (PM-10) : In - house method : STM 04-052 based on U.S. Environmental Protection Agency 40 CFR, method 50, Appendix J, revised as of July 1, 2008 (Include sampling)

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

**Sampled By** : Winyou Boontani

**Remark** : Result (s) marked \* is/are not included in scope of Accreditation ISO/IEC 17025.

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.

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## Analysis / Test Report



TESTING  
No.0009

Client : WHA Saraburi Industrial Land Co., Ltd.

111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140

P/O : 54250024

Project Name : Monitoring

Project Location : WHA SIL

Lot ID: 2531642

Date Received : Apr 30, 2025

Date Reported : May 09, 2025

Report Number: 3301946-1

Page 1 of 1

**Sample Description** Air Quality  
**Location** ร.รัตนวงษ์วิทยาสรรพสามิต (GPS 47P 0700737, 1590864)  
**Date Analysis Commenced** May 02, 2025  
**Condition of Sample** Drawn into two filter paper placed in plastic cassettes

Sample Number	Sampled Date	Total Suspended Particulate (mg/m3)	Particulate Matter (PM-10) (mg/m3)	Barometric Pressure (mm Hg)	Atmospheric Temperature (°C)
2531642-22	Apr 22 - Apr 23, 2025	0.053	0.035	757*	34.0*
2531642-23	Apr 23 - Apr 24, 2025	0.048	0.031	757*	33.7*
2531642-24	Apr 24 - Apr 25, 2025	0.052	0.031	757*	33.2*
2531642-25	Apr 25 - Apr 26, 2025	0.049	0.034	757*	34.1*
2531642-26	Apr 26 - Apr 27, 2025	0.049	0.030	757*	34.5*
2531642-27	Apr 27 - Apr 28, 2025	0.043	0.031	757*	34.0*
2531642-28	Apr 28 - Apr 29, 2025	0.065	0.028	757*	34.1*
<b>Guideline</b>		0.33	0.12	-	-

### Reference Method

Total Suspended Particulate : In - house method : STM 04-051 based on U.S. Environmental Protection Agency 40 CFR, method 50, Appendix B, revised as of July 1, 2008 (Include sampling)

Particulate Matter (PM-10) : In - house method : STM 04-052 based on U.S. Environmental Protection Agency 40 CFR, method 50, Appendix J, revised as of July 1, 2008 (Include sampling)

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

**Sampled By** : Winyou Boontani

**Remark** : Result (s) marked \* is/are not included in scope of Accreditation ISO/IEC 17025.

Approved by

*Orawan R.*

Orawan Rakyong  
Scientist (3)

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## Analysis / Test Report



TESTING  
No.0009

**Client :** WHA Saraburi Industrial Land Co., Ltd.  
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhæ, Saraburi Thailand 18140  
**P/O :** 54250024  
**Project Name :** Monitoring  
**Project Location :** WHA SIL

**Lot ID: 2531642**  
Date Received : Apr 30, 2025  
Date Reported : May 09, 2025  
Report Number: 3301945-1

Page 1 of 1

**Sample Description** Air Quality  
**Location** รร. วัดบัวหลุม ภูมิชนบ้านบัวหลุมกลาง (GPS 47P 0698465, 1594331)  
**Date Analysis Commenced** May 02, 2025  
**Condition of Sample** Drawn into two filter paper placed in plastic cassettes

Sample Number	Sampled Date	Total Suspended Particulate (mg/m3)	Particulate Matter (PM-10) (mg/m3)	Barometric Pressure (mm Hg)	Atmospheric Temperature (°C)
2531642-15	Apr 22 - Apr 23, 2025	0.044	0.025	757*	34.0*
2531642-16	Apr 23 - Apr 24, 2025	0.042	0.027	757*	33.7*
2531642-17	Apr 24 - Apr 25, 2025	0.048	0.032	757*	33.2*
2531642-18	Apr 25 - Apr 26, 2025	0.048	0.032	757*	34.1*
2531642-19	Apr 26 - Apr 27, 2025	0.063	0.030	757*	34.5*
2531642-20	Apr 27 - Apr 28, 2025	0.045	0.026	757*	34.0*
2531642-21	Apr 28 - Apr 29, 2025	0.046	0.027	757*	34.1*
<b>Guideline</b>		0.33	0.12	-	-

### Reference Method

Total Suspended Particulate : In - house method : STM 04-051 based on U.S. Environmental Protection Agency 40 CFR, method 50, Appendix B, revised as of July 1, 2008 (Include sampling)  
Particulate Matter (PM-10) : In - house method : STM 04-052 based on U.S. Environmental Protection Agency 40 CFR, method 50, Appendix J, revised as of July 1, 2008 (Include sampling)

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

**Sampled By :** Winyou Boontana

**Remark :** Result (s) marked \* is/are not included in scope of Accreditation ISO/IEC 17025.

Approved by

*Orawan R.*

Orawan Rakyong  
Scientist (3)

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## Analysis / Test Report



TESTING  
No.0009

**Client :** WHA Saraburi Industrial Land Co., Ltd.  
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhæ, Saraburi Thailand 18140  
**P/O :** 54250024  
**Project Name :** Monitoring  
**Project Location :** WHA SIL

**Lot ID: 2531642**  
Date Received : Apr 30, 2025  
Date Reported : May 09, 2025  
Report Number: 3301944-1

Page 1 of 1

**Sample Description** Air Quality  
**Location** รร. บ้านใหม่ทุ่งต้นขล ภูมิชนบ้านใหม่ทุ่งต้นขล (GPS 47P 0697239, 1589433)  
**Date Analysis Commenced** May 02, 2025  
**Condition of Sample** Drawn into two filter paper placed in plastic cassettes

Sample Number	Sampled Date	Total Suspended Particulate (mg/m3)	Particulate Matter (PM-10) (mg/m3)	Barometric Pressure (mm Hg)	Atmospheric Temperature (°C)
2531642-8	Apr 22 - Apr 23, 2025	0.050	0.025	757*	34.0*
2531642-9	Apr 23 - Apr 24, 2025	0.052	0.025	757*	33.7*
2531642-10	Apr 24 - Apr 25, 2025	0.047	0.028	757*	33.2*
2531642-11	Apr 25 - Apr 26, 2025	0.057	0.030	757*	34.1*
2531642-12	Apr 26 - Apr 27, 2025	0.059	0.026	757*	34.5*
2531642-13	Apr 27 - Apr 28, 2025	0.054	0.027	757*	34.0*
2531642-14	Apr 28 - Apr 29, 2025	0.065	0.032	757*	34.1*
<b>Guideline</b>		0.33	0.12	-	-

### Reference Method

Total Suspended Particulate : In - house method : STM 04-051 based on U.S. Environmental Protection Agency 40 CFR, method 50, Appendix B, revised as of July 1, 2008 (Include sampling)  
Particulate Matter (PM-10) : In - house method : STM 04-052 based on U.S. Environmental Protection Agency 40 CFR, method 50, Appendix J, revised as of July 1, 2008 (Include sampling)

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

**Sampled By :** Winyou Boontana

**Remark :** Result (s) marked \* is/are not included in scope of Accreditation ISO/IEC 17025.

Approved by

*Orawan R.*

Orawan Rakyong  
Scientist (3)

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## Analysis / Test Report

Client : WHA Saraburi Industrial Land Co., Ltd.

111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140

P/O : 54250024

Project Name : Monitoring

Project Location : WHA SIL

Lot ID: 2531101

Date Received : Apr 30, 2025

Date Reported : May 08, 2025

Report Number: 3273123-1

Page 1 of 1

Sample Description	Air Quality						
Location	บริเวณสำนักงานบริษัท (GPS 47P 0698599, 1589315)						
Parameter	Sulfur Dioxide (ppm)						
Measurement Date	Apr 22, 2025 - Apr 29, 2025						
Measurement by	Winyou Boontanai						
Time	2531101-1 Apr 22, 2025	2531101-2 Apr 23, 2025	2531101-3 Apr 24, 2025	2531101-4 Apr 25, 2025	2531101-5 Apr 26, 2025	2531101-6 Apr 27, 2025	2531101-7 Apr 28, 2025
09:00 AM - 10:00 AM	0.0006	0.0005	0.0009	0.0002	0.0004	0.0002	0.0007
10:00 AM - 11:00 AM	0.0003	0.0010	0.0008	0.0008	0.0002	0.0002	0.0006
11:00 AM - 12:00 PM	0.0003	0.0012	0.0010	0.0005	0.0003	0.0004	0.0005
12:00 PM - 01:00 PM	0.0002	0.0009	0.0005	0.0002	0.0002	0.0004	0.0005
01:00 PM - 02:00 PM	0.0006	0.0009	0.0009	0.0002	0.0004	0.0007	0.0007
02:00 PM - 03:00 PM	0.0006	0.0003	0.0002	0.0005	0.0005	0.0008	0.0011
03:00 PM - 04:00 PM	0.0004	0.0004	0.0004	0.0008	0.0008	0.0008	0.0010
04:00 PM - 05:00 PM	0.0002	0.0005	0.0005	0.0007	0.0008	0.0010	0.0011
05:00 PM - 06:00 PM	0.0003	0.0006	0.0005	0.0008	0.0004	0.0011	0.0009
06:00 PM - 07:00 PM	0.0002	0.0006	0.0006	0.0009	0.0007	0.0011	0.0009
07:00 PM - 08:00 PM	0.0003	0.0006	0.0005	0.0008	0.0006	0.0011	0.0009
08:00 PM - 09:00 PM	0.0005	0.0005	0.0005	0.0008	0.0006	0.0010	0.0008
09:00 PM - 10:00 PM	0.0006	0.0005	0.0005	0.0006	0.0005	0.0010	0.0009
10:00 PM - 11:00 PM	0.0008	0.0003	0.0004	0.0005	0.0002	0.0009	0.0007
11:00 PM - 12:00 AM	0.0003	0.0006	0.0003	0.0007	0.0005	0.0010	0.0007
12:00 AM - 01:00 AM	0.0004	0.0004	0.0005	0.0007	0.0002	0.0011	0.0007
01:00 AM - 02:00 AM	0.0003	0.0006	0.0006	0.0008	0.0008	0.0010	0.0008
02:00 AM - 03:00 AM	0.0002	0.0007	0.0008	0.0009	0.0009	0.0011	0.0009
03:00 AM - 04:00 AM	0.0002	0.0007	0.0007	0.0010	0.0010	0.0012	0.0011
04:00 AM - 05:00 AM	0.0002	0.0007	0.0007	0.0010	0.0009	0.0011	0.0010
05:00 AM - 06:00 AM	0.0005	0.0006	0.0008	0.0010	0.0009	0.0011	0.0011
06:00 AM - 07:00 AM	0.0006	0.0004	0.0007	0.0009	0.0007	0.0011	0.0010
07:00 AM - 08:00 AM	0.0002	0.0004	0.0005	0.0008	0.0006	0.0005	0.0009
08:00 AM - 09:00 AM	0.0008	0.0002	0.0003	0.0005	0.0003	0.0010	0.0007
Average	0.0004	0.0006	0.0006	0.0007	0.0006	0.0009	0.0008
1hr - Maximum	0.0008	0.0012	0.0010	0.0010	0.0010	0.0012	0.0011
Standard 1hr - Average	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Standard 24 hrs - Average	0.12	0.12	0.12	0.12	0.12	0.12	0.12
Standard	Notification of the National Environment Board No.10, 1995 (B.E.2538), No. 21, 2001 (B.E.2544) and No.24, 2004 (B.E.2547).						
Reference Method	US EPA Method Part 53 and 58						

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Approved by

*Orawan R.*

Orawan Rakyong  
Scientist (3)

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## Analysis / Test Report

Client : WHA Saraburi Industrial Land Co., Ltd.

111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140

P/O : 54250024

Project Name : Monitoring

Project Location : WHA SIL

Lot ID: 2531101

Date Received : Apr 30, 2025

Date Reported : May 08, 2025

Report Number: 3300618-1

Page 1 of 1

Sample Description	Air Quality							
Location	ร. วัดหนองปลาหมอ หมู่บ้านหนองปลื้มใต้ (GPS 47P 0700737, 1590864)							
Parameter	Sulfur Dioxide (ppm)							
Measurement Date	Apr 22, 2025 - Apr 29, 2025							
Measurement by	Winyou Boontanai							
Time	2531101-22 Apr 22, 2025	2531101-23 Apr 23, 2025	2531101-24 Apr 24, 2025	2531101-25 Apr 25, 2025	2531101-26 Apr 26, 2025	2531101-27 Apr 27, 2025	2531101-28 Apr 28, 2025	
11:00 AM - 12:00 PM	0.0008	0.0004	0.0003	0.0002	0.0002	0.0002	0.0002	
12:00 PM - 01:00 PM	0.0006	0.0004	0.0003	0.0002	0.0002	0.0002	0.0004	
01:00 PM - 02:00 PM	0.0006	0.0004	0.0003	0.0002	0.0002	0.0002	0.0002	
02:00 PM - 03:00 PM	0.0003	0.0003	0.0003	0.0002	0.0002	0.0002	0.0002	
03:00 PM - 04:00 PM	0.0004	0.0004	0.0003	0.0003	0.0002	0.0002	0.0002	
04:00 PM - 05:00 PM	0.0004	0.0003	0.0003	0.0002	0.0002	0.0003	0.0002	
05:00 PM - 06:00 PM	0.0003	0.0004	0.0002	0.0002	0.0002	0.0008	0.0003	
06:00 PM - 07:00 PM	0.0003	0.0003	0.0003	0.0002	0.0002	0.0005	0.0008	
07:00 PM - 08:00 PM	0.0003	0.0003	0.0002	0.0003	0.0003	0.0006	0.0002	
08:00 PM - 09:00 PM	0.0004	0.0003	0.0002	0.0002	0.0005	0.0002	0.0005	
09:00 PM - 10:00 PM	0.0004	0.0003	0.0003	0.0002	0.0006	0.0002	0.0004	
10:00 PM - 11:00 PM	0.0004	0.0005	0.0005	0.0002	0.0002	0.0002	0.0002	
11:00 PM - 12:00 AM	0.0004	0.0006	0.0003	0.0002	0.0003	0.0002	0.0003	
12:00 AM - 01:00 AM	0.0004	0.0004	0.0004	0.0002	0.0004	0.0002	0.0002	
01:00 AM - 02:00 AM	0.0009	0.0003	0.0005	0.0002	0.0005	0.0002	0.0002	
02:00 AM - 03:00 AM	0.0008	0.0003	0.0003	0.0002	0.0001	0.0002	0.0002	
03:00 AM - 04:00 AM	0.0005	0.0004	0.0003	0.0002	0.0001	0.0002	0.0002	
04:00 AM - 05:00 AM	0.0005	0.0003	0.0003	0.0002	0.0001	0.0002	0.0004	
05:00 AM - 06:00 AM	0.0005	0.0004	0.0004	0.0002	0.0002	0.0002	0.0003	
06:00 AM - 07:00 AM	0.0005	0.0004	0.0003	0.0002	0.0002	0.0002	0.0003	
07:00 AM - 08:00 AM	0.0004	0.0003	0.0003	0.0002	0.0002	0.0002	0.0002	
08:00 AM - 09:00 AM	0.0004	0.0003	0.0003	0.0002	0.0002	0.0002	0.0002	
09:00 AM - 10:00 AM	0.0004	0.0003	0.0003	0.0002	0.0002	0.0002	0.0002	
10:00 AM - 11:00 AM	0.0004	0.0003	0.0003	0.0002	0.0002	0.0002	0.0005	
Average	0.0005	0.0004	0.0003	0.0002	0.0002	0.0003	0.0003	
1hr - Maximum	0.0009	0.0006	0.0005	0.0003	0.0006	0.0008	0.0008	
Standard 1hr - Average	0.3	0.3	0.3	0.3	0.3	0.3	0.3	
Standard 24 hrs - Average	0.12	0.12	0.12	0.12	0.12	0.12	0.12	
Standard	Notification of the National Environment Board No.10, 1995 (B.E.2538), No. 21, 2001 (B.E.2544) and No.24, 2004 (B.E.2547).							
Reference Method	US EPA Method Part 53 and 58							

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Scientist (3)

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## Analysis / Test Report

Client : WHA Saraburi Industrial Land Co., Ltd.

111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140

P/O : 54250024

Project Name : Monitoring

Project Location : WHA SIL

Lot ID: 2531101

Date Received : Apr 30, 2025

Date Reported : May 08, 2025

Report Number: 3300617-1

Page 1 of 1

Sample Description Air Quality

Location รร. วัดป่าละอู หมู่ 7 ตำบลหนองหลวง (GPS 47P 0698465, 1594331)

Parameter Sulfur Dioxide (ppm)

Measurement Date Apr 22, 2025 - Apr 29, 2025

Measurement by Winyou Boontanai

Time	2531101-15 Apr 22, 2025	2531101-16 Apr 23, 2025	2531101-17 Apr 24, 2025	2531101-18 Apr 25, 2025	2531101-19 Apr 26, 2025	2531101-20 Apr 27, 2025	2531101-21 Apr 28, 2025
12:00 PM - 01:00 PM	0.0006	0.0007	0.0006	0.0007	0.0007	0.0007	0.0007
01:00 PM - 02:00 PM	0.0003	0.0007	0.0006	0.0007	0.0007	0.0006	0.0007
02:00 PM - 03:00 PM	0.0017	0.0008	0.0006	0.0007	0.0006	0.0007	0.0007
03:00 PM - 04:00 PM	0.0010	0.0007	0.0006	0.0006	0.0007	0.0006	0.0007
04:00 PM - 05:00 PM	0.0008	0.0006	0.0006	0.0006	0.0006	0.0007	0.0007
05:00 PM - 06:00 PM	0.0008	0.0007	0.0006	0.0006	0.0006	0.0006	0.0007
06:00 PM - 07:00 PM	0.0007	0.0006	0.0006	0.0007	0.0007	0.0006	0.0007
07:00 PM - 08:00 PM	0.0007	0.0006	0.0006	0.0006	0.0006	0.0005	0.0005
08:00 PM - 09:00 PM	0.0007	0.0006	0.0006	0.0006	0.0006	0.0006	0.0004
09:00 PM - 10:00 PM	0.0007	0.0006	0.0005	0.0006	0.0006	0.0006	0.0006
10:00 PM - 11:00 PM	0.0007	0.0006	0.0006	0.0006	0.0006	0.0006	0.0006
11:00 PM - 12:00 AM	0.0007	0.0006	0.0006	0.0007	0.0007	0.0006	0.0006
12:00 AM - 01:00 AM	0.0006	0.0006	0.0006	0.0008	0.0008	0.0006	0.0006
01:00 AM - 02:00 AM	0.0006	0.0006	0.0006	0.0007	0.0007	0.0006	0.0006
02:00 AM - 03:00 AM	0.0006	0.0006	0.0006	0.0007	0.0007	0.0006	0.0007
03:00 AM - 04:00 AM	0.0006	0.0006	0.0006	0.0007	0.0007	0.0006	0.0006
04:00 AM - 05:00 AM	0.0006	0.0006	0.0006	0.0006	0.0006	0.0006	0.0006
05:00 AM - 06:00 AM	0.0007	0.0006	0.0006	0.0007	0.0007	0.0007	0.0007
06:00 AM - 07:00 AM	0.0006	0.0006	0.0006	0.0007	0.0006	0.0006	0.0006
07:00 AM - 08:00 AM	0.0006	0.0006	0.0006	0.0006	0.0006	0.0007	0.0007
08:00 AM - 09:00 AM	0.0007	0.0005	0.0006	0.0006	0.0006	0.0007	0.0007
09:00 AM - 10:00 AM	0.0007	0.0006	0.0006	0.0006	0.0006	0.0006	0.0006
10:00 AM - 11:00 AM	0.0008	0.0006	0.0006	0.0006	0.0006	0.0007	0.0006
11:00 AM - 12:00 PM	0.0008	0.0006	0.0007	0.0007	0.0006	0.0007	0.0007
Average	0.0007	0.0006	0.0006	0.0007	0.0006	0.0006	0.0006
1hr - Maximum	0.0017	0.0008	0.0007	0.0008	0.0008	0.0007	0.0007
Standard 1hr - Average	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Standard 24 hrs - Average	0.12	0.12	0.12	0.12	0.12	0.12	0.12

Standard : Notification of the National Environment Board No.10, 1995 (B.E.2538), No. 21, 2001 (B.E.2544) and No.24, 2004 (B.E.2547).

Reference Method : US EPA Method Part 53 and 58

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.

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S:\Reports\_Air SOxNOx.rpt ( 3:40PM)



## Analysis / Test Report

Client : WHA Saraburi Industrial Land Co., Ltd.

111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140

P/O : 54250024

Project Name : Monitoring

Project Location : WHA SIL

Lot ID: 2531101

Date Received : Apr 30, 2025

Date Reported : May 08, 2025

Report Number: 3300616-1

Page 1 of 1

Sample Description Air Quality

Location รร. บ้านใหม่ทุ่งดินนา หมู่ 7 ตำบลใหม่ทุ่งดินนา (GPS 47P 0697239, 1589433)

Parameter Sulfur Dioxide (ppm)

Measurement Date Apr 22, 2025 - Apr 29, 2025

Measurement by Winyou Boontanai

Time	2531101-8 Apr 22, 2025	2531101-9 Apr 23, 2025	2531101-10 Apr 24, 2025	2531101-11 Apr 25, 2025	2531101-12 Apr 26, 2025	2531101-13 Apr 27, 2025	2531101-14 Apr 28, 2025
10:00 AM - 11:00 AM	0.0011	0.0004	0.0009	0.0004	0.0016	0.0025	0.0007
11:00 AM - 12:00 PM	0.0013	0.0009	0.0004	0.0005	0.0017	0.0026	0.0007
12:00 PM - 01:00 PM	0.0012	0.0011	0.0005	0.0007	0.0019	0.0024	0.0006
01:00 PM - 02:00 PM	0.0017	0.0011	0.0005	0.0009	0.0021	0.0024	0.0007
02:00 PM - 03:00 PM	0.0017	0.0011	0.0006	0.0009	0.0020	0.0024	0.0008
03:00 PM - 04:00 PM	0.0020	0.0017	0.0018	0.0020	0.0018	0.0030	0.0007
04:00 PM - 05:00 PM	0.0021	0.0025	0.0036	0.0029	0.0020	0.0024	0.0006
05:00 PM - 06:00 PM	0.0019	0.0080	0.0030	0.0020	0.0020	0.0026	0.0007
06:00 PM - 07:00 PM	0.0020	0.0021	0.0018	0.0028	0.0023	0.0035	0.0006
07:00 PM - 08:00 PM	0.0021	0.0045	0.0027	0.0021	0.0023	0.0033	0.0007
08:00 PM - 09:00 PM	0.0023	0.0021	0.0020	0.0020	0.0027	0.0030	0.0005
09:00 PM - 10:00 PM	0.0023	0.0009	0.0016	0.0014	0.0025	0.0035	0.0005
10:00 PM - 11:00 PM	0.0030	0.0007	0.0016	0.0015	0.0025	0.0034	0.0004
11:00 PM - 12:00 AM	0.0023	0.0009	0.0015	0.0017	0.0024	0.0035	0.0004
12:00 AM - 01:00 AM	0.0015	0.0006	0.0011	0.0013	0.0024	0.0035	0.0005
01:00 AM - 02:00 AM	0.0010	0.0007	0.0006	0.0010	0.0025	0.0031	0.0005
02:00 AM - 03:00 AM	0.0007	0.0004	0.0004	0.0008	0.0028	0.0028	0.0005
03:00 AM - 04:00 AM	0.0005	0.0004	0.0004	0.0005	0.0027	0.0030	0.0006
04:00 AM - 05:00 AM	0.0004	0.0003	0.0006	0.0004	0.0027	0.0031	0.0010
05:00 AM - 06:00 AM	0.0003	0.0003	0.0007	0.0006	0.0031	0.0030	0.0043
06:00 AM - 07:00 AM	0.0002	0.0010	0.0004	0.0005	0.0026	0.0025	0.0059
07:00 AM - 08:00 AM	0.0003	0.0006	0.0004	0.0007	0.0025	0.0026	0.0041
08:00 AM - 09:00 AM	0.0005	0.0007	0.0003	0.0010	0.0023	0.0024	0.0031
09:00 AM - 10:00 AM	0.0004	0.0008	0.0004	0.0012	0.0024	0.0022	0.0028
Average	0.0014	0.0014	0.0012	0.0013	0.0023	0.0029	0.0013
1hr - Maximum	0.0030	0.0080	0.0036	0.0031	0.0031	0.0035	0.0059
Standard 1hr - Average	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Standard 24 hrs - Average	0.12	0.12	0.12	0.12	0.12	0.12	0.12

Standard : Notification of the National Environment Board No.10, 1995 (B.E.2538), No. 21, 2001 (B.E.2544) and No.24, 2004 (B.E.2547).

Reference Method : US EPA Method Part 53 and 58

Approved by

*Orawan R.*

Orawan Rakyong  
Scientist (3)

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S:\Reports\_Air SOxNOx.rpt ( 3:40PM)





## Analysis / Test Report

Client : WHA Saraburi Industrial Land Co., Ltd.

111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140

P/O : 54250024

Project Name : Monitoring

Project Location : WHA SIL

Lot ID: 2530645

Date Received : Apr 30, 2025

Date Reported : May 08, 2025

Report Number: 3272909-1

Page 1 of 1

Sample Description Air Quality

Location บริเวณสำนักงานบริษัท (GPS 47P 0698599, 1589315)

Parameter Nitrogen dioxide (ppm)

Measurement Date Apr 22, 2025 - Apr 29, 2025

Measurement by Winyou Boontanai

Time	2530645-1 Apr 22, 2025	2530645-2 Apr 23, 2025	2530645-3 Apr 24, 2025	2530645-4 Apr 25, 2025	2530645-5 Apr 26, 2025	2530645-6 Apr 27, 2025	2530645-7 Apr 28, 2025
09:00 AM - 10:00 AM	0.0047	0.0034	0.0036	0.0041	0.0036	0.0061	0.0039
10:00 AM - 11:00 AM	0.0060	0.0042	0.0041	0.0049	0.0037	0.0037	0.0040
11:00 AM - 12:00 PM	0.0031	0.0056	0.0055	0.0059	0.0050	0.0042	0.0048
12:00 PM - 01:00 PM	0.0052	0.0075	0.0062	0.0067	0.0056	0.0046	0.0055
01:00 PM - 02:00 PM	0.0077	0.0081	0.0061	0.0070	0.0060	0.0045	0.0068
02:00 PM - 03:00 PM	0.0103	0.0088	0.0070	0.0080	0.0066	0.0047	0.0104
03:00 PM - 04:00 PM	0.0117	0.0098	0.0077	0.0092	0.0069	0.0056	0.0116
04:00 PM - 05:00 PM	0.0133	0.0112	0.0083	0.0102	0.0085	0.0070	0.0112
05:00 PM - 06:00 PM	0.0147	0.0118	0.0105	0.0112	0.0095	0.0068	0.0076
06:00 PM - 07:00 PM	0.0175	0.0126	0.0115	0.0124	0.0082	0.0065	0.0078
07:00 PM - 08:00 PM	0.0132	0.0111	0.0096	0.0133	0.0078	0.0063	0.0079
08:00 PM - 09:00 PM	0.0094	0.0085	0.0092	0.0122	0.0078	0.0055	0.0081
09:00 PM - 10:00 PM	0.0069	0.0066	0.0080	0.0086	0.0071	0.0054	0.0074
10:00 PM - 11:00 PM	0.0054	0.0053	0.0066	0.0065	0.0065	0.0055	0.0076
11:00 PM - 12:00 AM	0.0049	0.0047	0.0059	0.0059	0.0064	0.0054	0.0079
12:00 AM - 01:00 AM	0.0042	0.0044	0.0053	0.0059	0.0056	0.0054	0.0091
01:00 AM - 02:00 AM	0.0037	0.0048	0.0048	0.0058	0.0036	0.0059	0.0095
02:00 AM - 03:00 AM	0.0035	0.0049	0.0044	0.0050	0.0045	0.0057	0.0077
03:00 AM - 04:00 AM	0.0042	0.0053	0.0047	0.0045	0.0038	0.0058	0.0092
04:00 AM - 05:00 AM	0.0042	0.0053	0.0045	0.0042	0.0034	0.0063	0.0114
05:00 AM - 06:00 AM	0.0044	0.0048	0.0040	0.0042	0.0031	0.0061	0.0113
06:00 AM - 07:00 AM	0.0044	0.0050	0.0041	0.0042	0.0031	0.0061	0.0113
07:00 AM - 08:00 AM	0.0040	0.0050	0.0038	0.0039	0.0025	0.0091	0.0128
08:00 AM - 09:00 AM	0.0032	0.0036	0.0035	0.0034	0.0121	0.0040	0.0117
Average	0.0071	0.0068	0.0062	0.0070	0.0059	0.0057	0.0086
1hr - Maximum	0.0175	0.0126	0.0115	0.0133	0.0121	0.0091	0.0128
Standard 1hr - Average	0.170	0.170	0.170	0.170	0.170	0.170	0.170

Standard : Notification of the National Environment Board No. 33, 2009 (B.E. 2552).

Reference Method : US EPAMethod Part 50 App. F (Chemiluminescence)

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.

Approved by

*Orawan R.*

Orawan Rakyong  
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## Analysis / Test Report

Client : WHA Saraburi Industrial Land Co., Ltd.

111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140

P/O : 54250024

Project Name : Monitoring

Project Location : WHA SIL

Lot ID: 2530645

Date Received : Apr 30, 2025

Date Reported : May 08, 2025

Report Number: 3300615-1

Page 1 of 1

Sample Description Air Quality

Location รร. วัดหนองปลาหมอ หมู่บ้านหนองปลกัศใต้ (GPS 47P 0700737, 1590864)

Parameter Nitrogen dioxide (ppm)

Measurement Date Apr 22, 2025 - Apr 29, 2025

Measurement by Winyou Boontanai

Time	2530645-22 Apr 22, 2025	2530645-23 Apr 23, 2025	2530645-24 Apr 24, 2025	2530645-25 Apr 25, 2025	2530645-26 Apr 26, 2025	2530645-27 Apr 27, 2025	2530645-28 Apr 28, 2025
11:00 AM - 12:00 PM	0.0031	0.0052	0.0040	0.0047	0.0038	0.0047	0.0120
12:00 PM - 01:00 PM	0.0034	0.0049	0.0041	0.0045	0.0029	0.0029	0.0043
01:00 PM - 02:00 PM	0.0041	0.0049	0.0037	0.0052	0.0035	0.0035	0.0055
02:00 PM - 03:00 PM	0.0030	0.0053	0.0061	0.0045	0.0027	0.0034	0.0094
03:00 PM - 04:00 PM	0.0040	0.0051	0.0052	0.0053	0.0037	0.0042	0.0108
04:00 PM - 05:00 PM	0.0061	0.0056	0.0058	0.0049	0.0042	0.0100	0.0065
05:00 PM - 06:00 PM	0.0071	0.0065	0.0054	0.0051	0.0057	0.0063	0.0075
06:00 PM - 07:00 PM	0.0078	0.0084	0.0074	0.0117	0.0049	0.0088	0.0075
07:00 PM - 08:00 PM	0.0116	0.0074	0.0095	0.0116	0.0083	0.0111	0.0100
08:00 PM - 09:00 PM	0.0092	0.0072	0.0119	0.0116	0.0127	0.0166	0.0125
09:00 PM - 10:00 PM	0.0103	0.0096	0.0133	0.0149	0.0108	0.0135	0.0095
10:00 PM - 11:00 PM	0.0104	0.0088	0.0127	0.0108	0.0091	0.0169	0.0157
11:00 PM - 12:00 AM	0.0118	0.0129	0.0140	0.0118	0.0025	0.0142	0.0157
12:00 AM - 01:00 AM	0.0102	0.0131	0.0151	0.0165	0.0029	0.0136	0.0136
01:00 AM - 02:00 AM	0.0120	0.0150	0.0139	0.0099	0.0081	0.0156	0.0134
02:00 AM - 03:00 AM	0.0133	0.0103	0.0137	0.0112	0.0083	0.0132	0.0196
03:00 AM - 04:00 AM	0.0143	0.0143	0.0117	0.0133	0.0113	0.0158	0.0229
04:00 AM - 05:00 AM	0.0149	0.0115	0.0142	0.0128	0.0136	0.0121	0.0286
05:00 AM - 06:00 AM	0.0138	0.0107	0.0146	0.0121	0.0178	0.0140	0.0265
06:00 AM - 07:00 AM	0.0128	0.0106	0.0117	0.0124	0.0168	0.0119	0.0280
07:00 AM - 08:00 AM	0.0074	0.0073	0.0061	0.0061	0.0108	0.0084	0.0212
08:00 AM - 09:00 AM	0.0051	0.0041	0.0056	0.0047	0.0065	0.0065	0.0158
09:00 AM - 10:00 AM	0.0049	0.0039	0.0043	0.0044	0.0059	0.0053	0.0062
10:00 AM - 11:00 AM	0.0053	0.0050	0.0040	0.0035	0.0053	0.0048	0.0058
Average	0.0086	0.0082	0.0091	0.0089	0.0075	0.0099	0.0137
1hr - Maximum	0.0149	0.0150	0.0151	0.0165	0.0178	0.0169	0.0286
Standard 1hr - Average	0.170	0.170	0.170	0.170	0.170	0.170	0.170

Standard : Notification of the National Environment Board No. 33, 2009 (B.E. 2552).

Reference Method : US EPAMethod Part 50 App. F (Chemiluminescence)

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.

Approved by

*Orawan R.*

Orawan Rakyong  
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## Analysis / Test Report

Client : WHA Saraburi Industrial Land Co., Ltd.

111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140

P/O : 54250024

Project Name : Monitoring

Project Location : WHA SIL

Lot ID: 2530645

Date Received : Apr 30, 2025

Date Reported : May 08, 2025

Report Number: 3300614-1

Page 1 of 1

Sample Description	Air Quality						
Location	ร. บ้านโหนดชัย หมู่บ้านในเขตเทศบาล (GPS 47P 0698465, 1594331)						
Parameter	Nitrogen dioxide (ppm)						
Measurement Date	Apr 22, 2025 - Apr 29, 2025						
Measurement by	Winyou Boontanai						
Time	2530645-15 Apr 22, 2025	2530645-16 Apr 23, 2025	2530645-17 Apr 24, 2025	2530645-18 Apr 25, 2025	2530645-19 Apr 26, 2025	2530645-20 Apr 27, 2025	2530645-21 Apr 28, 2025
12:00 PM - 01:00 PM	0.0100	0.0084	0.0067	0.0081	0.0066	0.0037	0.0065
01:00 PM - 02:00 PM	0.0061	0.0078	0.0063	0.0062	0.0066	0.0033	0.0041
02:00 PM - 03:00 PM	0.0052	0.0058	0.0066	0.0049	0.0066	0.0039	0.0038
03:00 PM - 04:00 PM	0.0058	0.0061	0.0065	0.0053	0.0068	0.0054	0.0057
04:00 PM - 05:00 PM	0.0063	0.0089	0.0079	0.0081	0.0097	0.0087	0.0069
05:00 PM - 06:00 PM	0.0093	0.0101	0.0115	0.0091	0.0160	0.0115	0.0133
06:00 PM - 07:00 PM	0.0107	0.0099	0.0106	0.0102	0.0139	0.0097	0.0144
07:00 PM - 08:00 PM	0.0182	0.0121	0.0203	0.0217	0.0118	0.0105	0.0232
08:00 PM - 09:00 PM	0.0111	0.0288	0.0223	0.0186	0.0157	0.0122	0.0219
09:00 PM - 10:00 PM	0.0100	0.0190	0.0168	0.0117	0.0130	0.0142	0.0193
10:00 PM - 11:00 PM	0.0103	0.0100	0.0143	0.0086	0.0120	0.0114	0.0152
11:00 PM - 12:00 AM	0.0096	0.0089	0.0121	0.0085	0.0041	0.0103	0.0154
12:00 AM - 01:00 AM	0.0090	0.0101	0.0103	0.0104	0.0056	0.0117	0.0141
01:00 AM - 02:00 AM	0.0080	0.0095	0.0108	0.0106	0.0077	0.0119	0.0111
02:00 AM - 03:00 AM	0.0103	0.0079	0.0099	0.0079	0.0075	0.0108	0.0100
03:00 AM - 04:00 AM	0.0110	0.0079	0.0095	0.0088	0.0087	0.0115	0.0145
04:00 AM - 05:00 AM	0.0134	0.0083	0.0119	0.0092	0.0083	0.0119	0.0143
05:00 AM - 06:00 AM	0.0156	0.0104	0.0124	0.0091	0.0095	0.0146	0.0153
06:00 AM - 07:00 AM	0.0181	0.0127	0.0132	0.0108	0.0144	0.0150	0.0150
07:00 AM - 08:00 AM	0.0161	0.0134	0.0115	0.0111	0.0112	0.0143	0.0210
08:00 AM - 09:00 AM	0.0097	0.0086	0.0081	0.0080	0.0080	0.0113	0.0199
09:00 AM - 10:00 AM	0.0098	0.0074	0.0066	0.0062	0.0062	0.0081	0.0122
10:00 AM - 11:00 AM	0.0087	0.0087	0.0072	0.0090	0.0064	0.0057	0.0096
11:00 AM - 12:00 PM	0.0081	0.0081	0.0083	0.0078	0.0062	0.0070	0.0102
Average	0.0104	0.0104	0.0109	0.0096	0.0093	0.0099	0.0132
1hr - Maximum	0.0182	0.0288	0.0223	0.0217	0.0160	0.0151	0.0232
Standard 1hr - Average	0.170	0.170	0.170	0.170	0.170	0.170	0.170

Standard : Notification of the National Environment Board No. 33, 2009 (B.E. 2552).

Reference Method : US EPAMethod Part 50 App. F (Chemiluminescence)

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.

Approved by

*Orawan R.*

Orawan Rakyong  
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## Analysis / Test Report

Client : WHA Saraburi Industrial Land Co., Ltd.

111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140

P/O : 54250024

Project Name : Monitoring

Project Location : WHA SIL

Lot ID: 2530645

Date Received : Apr 30, 2025

Date Reported : May 08, 2025

Report Number: 3300613-1

Page 1 of 1

Sample Description	Air Quality						
Location	ร. บ้านโหนดชัย หมู่บ้านในเขตเทศบาล (GPS 47P 0697239, 1589433)						
Parameter	Nitrogen dioxide (ppm)						
Measurement Date	Apr 22, 2025 - Apr 29, 2025						
Measurement by	Winyou Boontanai						
	2530645-8	2530645-9	2530645-10	2530645-11	2530645-12	2530645-13	2530645-14
Time	Apr 22, 2025	Apr 23, 2025	Apr 24, 2025	Apr 25, 2025	Apr 26, 2025	Apr 27, 2025	Apr 28, 2025
10:00 AM - 11:00 AM	0.0092	0.0162	0.0179	0.0106	0.0026	0.0143	0.0118
11:00 AM - 12:00 PM	0.0086	0.0105	0.0117	0.0089	0.0040	0.0136	0.0151
12:00 PM - 01:00 PM	0.0051	0.0111	0.0108	0.0076	0.0034	0.0138	0.0136
01:00 PM - 02:00 PM	0.0070	0.0117	0.0137	0.0072	0.0028	0.0141	0.0146
02:00 PM - 03:00 PM	0.0086	0.0130	0.0141	0.0069	0.0029	0.0138	0.0072
03:00 PM - 04:00 PM	0.0111	0.0123	0.0152	0.0078	0.0037	0.0179	0.0083
04:00 PM - 05:00 PM	0.0139	0.0192	0.0228	0.0097	0.0045	0.0263	0.0198
05:00 PM - 06:00 PM	0.0108	0.0229	0.0404	0.0177	0.0051	0.0340	0.0431
06:00 PM - 07:00 PM	0.0132	0.0177	0.0386	0.0278	0.0056	0.0244	0.0321
07:00 PM - 08:00 PM	0.0228	0.0477	0.0514	0.0344	0.0100	0.0326	0.0337
08:00 PM - 09:00 PM	0.0248	0.0504	0.0369	0.0313	0.0076	0.0170	0.0241
09:00 PM - 10:00 PM	0.0187	0.0304	0.0327	0.0259	0.0184	0.0345	0.0392
10:00 PM - 11:00 PM	0.0210	0.0322	0.0360	0.0243	0.0166	0.0208	0.0343
11:00 PM - 12:00 AM	0.0139	0.0229	0.0246	0.0212	0.0209	0.0216	0.0279
12:00 AM - 01:00 AM	0.0128	0.0249	0.0285	0.0160	0.0213	0.0368	0.0212
01:00 AM - 02:00 AM	0.0169	0.0429	0.0313	0.0099	0.0146	0.0443	0.0204
02:00 AM - 03:00 AM	0.0181	0.0278	0.0255	0.0105	0.0217	0.0239	0.0189
03:00 AM - 04:00 AM	0.0156	0.0209	0.0126	0.0093	0.0182	0.0219	0.0166
04:00 AM - 05:00 AM	0.0164	0.0211	0.0117	0.0111	0.0264	0.0264	0.0175
05:00 AM - 06:00 AM	0.0116	0.0293	0.0099	0.0143	0.0203	0.0254	0.0304
06:00 AM - 07:00 AM	0.0148	0.0336	0.0104	0.0119	0.0125	0.0097	0.0281
07:00 AM - 08:00 AM	0.0216	0.0315	0.0114	0.0260	0.0096	0.0099	0.0254
08:00 AM - 09:00 AM	0.0178	0.0231	0.0101	0.0154	0.0108	0.0160	0.0065
09:00 AM - 10:00 AM	0.0136	0.0219	0.0100	0.0109	0.0121	0.0162	0.0081
Average	0.0145	0.0248	0.0220	0.0157	0.0115	0.0220	0.0216
1hr - Maximum	0.0248	0.0504	0.0514	0.0344	0.0264	0.0443	0.0431
Standard 1hr - Average	0.170	0.170	0.170	0.170	0.170	0.170	0.170

Standard : Notification of the National Environment Board No. 33, 2009 (B.E. 2552).

Reference Method : US EPAMethod Part 50 App. F (Chemiluminescence)

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.

Approved by

*Orawan R.*

Orawan Rakyong  
Scientist (3)

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0947-211 EMAIL

S:\Reports\_Air SOxNOx.rpt ( 3:36PM)





## Analysis / Test Report

Client : WHA Saraburi Industrial Land Co., Ltd.

111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140

P/O : 54250024

Project Name : Monitoring

Project Location : WHA SIL

Lot ID: 2531647

Date Received : Apr 30, 2025

Date Reported : May 10, 2025

Report Number : 3273128-1

Page 1 of 2

Sample Number : 2531647-1 to 7

Parameter : Wind Speed / Wind Direction

Location : มหานครอุตสาหกรรม (GPS 47P 0698599, 1589315)

Sampling Date : Apr 22 - Apr 29, 2025

Sampling by : Winyou Boontana

Time	Apr 22 - Apr 23, 2025		Apr 23 - Apr 24, 2025		Apr 24 - Apr 25, 2025		Apr 25 - Apr 26, 2025		Apr 26 - Apr 27, 2025		Apr 27 - Apr 28, 2025		Apr 28 - Apr 29, 2025								
	WS (m/s)	WD (deg)	WS (m/s)	WD (deg)	WS (m/s)	WD (deg)	WS (m/s)	WD (deg)	WS (m/s)	WD (deg)	WS (m/s)	WD (deg)	WS (m/s)	WD (deg)							
09:00 AM - 10:00 AM	0.2	-	0.2	-	0.8	202.0	SSW	0.0	-	0.8	200.0	SSW	0.4	141.0	SE	0.0	-	-			
10:00 AM - 11:00 AM	0.1	-	0.7	117.0	ESE	0.0	-	0.0	-	0.8	209.0	SSW	0.0	-	-	0.0	-	-			
11:00 AM - 12:00 PM	2.0	200.0	SSW	0.0	-	0.4	198.0	SSW	1.8	229.0	SW	0.0	-	0.5	248.0	WSW	0.0	-	-		
12:00 PM - 01:00 PM	1.0	160.0	SSE	2.9	212.0	SSW	0.7	210.0	SSW	0.8	172.0	S	0.9	157.0	SSE	0.8	115.0	ESE	0.0	-	-
01:00 PM - 02:00 PM	0.5	287.0	WNW	0.3	207.0	SSW	2.2	222.0	SW	0.5	198.0	SSW	0.3	207.0	SSW	0.0	-	0.0	-	-	
02:00 PM - 03:00 PM	0.2	-	0.4	273.0	W	0.6	231.0	SW	0.4	220.0	SW	1.6	226.0	SW	0.7	222.0	SW	0.9	24.0	NNE	
03:00 PM - 04:00 PM	0.2	-	0.4	185.0	S	1.1	207.0	SSW	0.7	229.0	SW	0.8	181.0	S	0.0	-	-	1.5	94.0	E	
04:00 PM - 05:00 PM	1.0	210.0	SSW	0.2	-	0.0	-	0.0	-	2.7	217.0	SW	0.0	-	-	0.9	205.0	SSW	0.0	-	-
05:00 PM - 06:00 PM	1.1	200.0	SSW	0.7	204.0	SSW	0.7	210.0	SSW	0.4	209.0	SSW	3.4	83.0	E	0.0	-	-	0.6	217.0	SW
06:00 PM - 07:00 PM	1.5	287.0	WNW	0.6	207.0	SSW	0.6	211.0	SSW	0.9	212.0	SSW	0.0	-	0.0	-	0.0	-	0.0	-	-
07:00 PM - 08:00 PM	0.8	198.0	SSW	1.2	211.0	SSW	0.0	-	0.2	-	0.0	-	0.0	-	0.0	-	0.0	-	0.0	-	-
08:00 PM - 09:00 PM	0.3	200.0	SSW	0.0	-	0.0	-	0.2	-	0.0	-	0.0	-	0.0	-	0.0	-	0.0	-	0.0	-
09:00 PM - 10:00 PM	0.5	175.0	S	0.4	204.0	SSW	0.0	-	0.0	-	0.0	-	0.0	-	0.0	-	0.0	-	0.0	-	-
10:00 PM - 11:00 PM	0.8	300.0	WNW	0.0	-	0.0	-	0.3	197.0	SSW	6.8	5.0	N	0.0	-	0.3	319.0	NW	0.0	-	-
11:00 PM - 12:00 AM	0.6	180.0	S	0.0	-	0.0	-	0.0	-	3.7	199.0	SSW	0.0	-	0.2	-	0.0	-	0.2	-	-
12:00 AM - 01:00 AM	1.2	210.0	SSW	0.0	-	0.0	-	0.3	193.0	SSW	0.0	-	0.0	-	0.1	-	0.0	-	0.1	-	-
01:00 AM - 02:00 AM	1.5	142.0	SE	0.0	-	0.0	-	0.0	-	0.0	-	0.0	-	0.7	9.0	N	0.0	-	0.0	-	-
02:00 AM - 03:00 AM	2.5	130.0	SE	0.0	-	0.0	-	0.0	-	0.0	-	0.0	-	0.0	-	0.0	-	0.0	-	0.0	-
03:00 AM - 04:00 AM	1.0	175.0	S	0.0	-	0.0	-	0.0	-	0.0	-	0.0	-	1.1	356.0	N	0.0	-	0.0	-	-
04:00 AM - 05:00 AM	1.3	110.0	ESE	0.0	-	0.0	-	0.0	-	0.0	-	0.0	-	0.2	-	0.0	-	0.2	-	0.0	-
05:00 AM - 06:00 AM	1.1	120.0	ESE	0.0	-	0.0	-	0.0	-	0.0	-	0.0	-	1.0	1.0	N	0.0	-	0.0	-	-
06:00 AM - 07:00 AM	1.0	145.0	SE	0.0	-	0.6	90.0	E	0.2	-	0.0	-	0.0	-	0.0	-	0.0	-	0.0	-	-
07:00 AM - 08:00 AM	1.9	123.0	ESE	0.2	-	1.4	217.0	SW	0.6	178.0	S	0.4	161.0	SSE	0.0	-	0.0	-	0.0	-	-
08:00 AM - 09:00 AM	0.5	150.0	SSE	0.3	207.0	SSW	0.1	-	0.8	207.0	SSW	0.6	196.0	SSW	1.2	225.0	SW	0.1	-	0.0	-

Reference Method : Cup Anemometer & Anodized Aluminium Vane Method

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Approved by

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## Analysis / Test Report

Client : WHA Saraburi Industrial Land Co., Ltd.

111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140

P/O : 54250024

Project Name : Monitoring

Project Location : WHA SIL

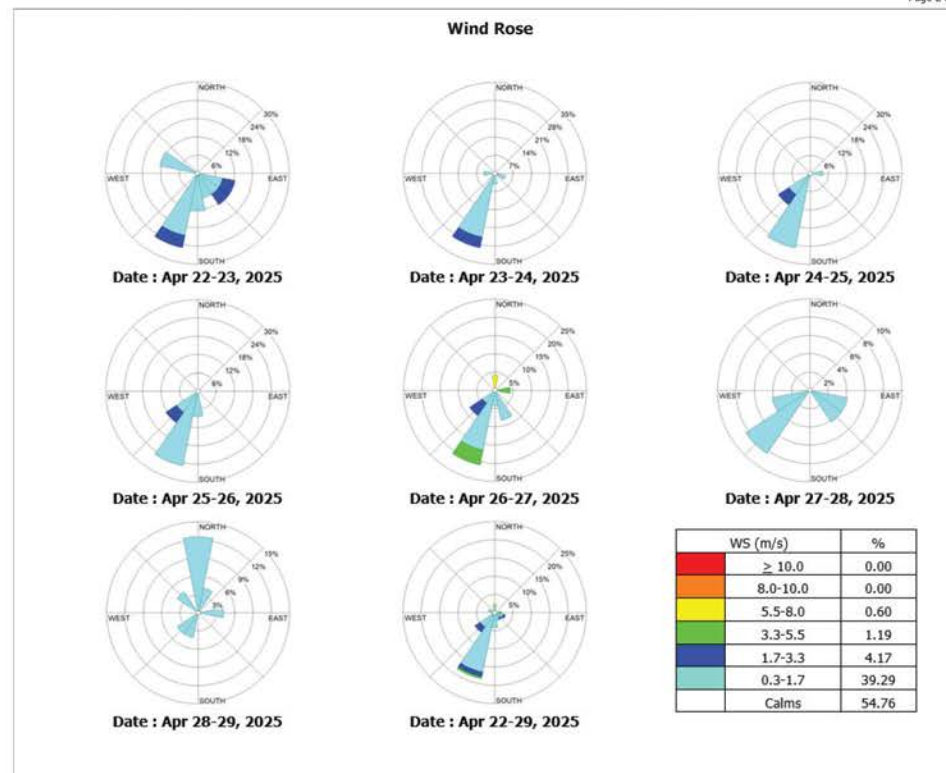
Lot ID: 2531647

Date Received : Apr 30, 2025

Date Reported : May 10, 2025

Report Number : 3273128-1

Page 2 of 2



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## Analysis / Test Report

Client : WHA Saraburi Industrial Land Co., Ltd.

111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140

P/O : 54250024

Project Name : Monitoring

Project Location : WHA SIL

Lot ID: 2531647

Date Received : Apr 30, 2025

Date Reported : May 10, 2025

Report Number : 3273128-1

Sample Number : 2531647-22 to 28

Parameter : Wind Speed / Wind Direction

Location : ร. รัตนลงปลาดานะ มุมชนบ้านหนองผักชีใต้ (GPS 47P 0700737, 1590864)

Sampling Date : Apr 22 - Apr 29, 2025

Sampling by : Winyou Boontana

Time	Apr 22 - Apr 23, 2025		Apr 23 - Apr 24, 2025		Apr 24 - Apr 25, 2025		Apr 25 - Apr 26, 2025		Apr 26 - Apr 27, 2025		Apr 27 - Apr 28, 2025		Apr 28 - Apr 29, 2025	
	WS (m/s)	WD (deg)	WS (m/s)	WD (deg)	WS (m/s)	WD (deg)	WS (m/s)	WD (deg)	WS (m/s)	WD (deg)	WS (m/s)	WD (deg)	WS (m/s)	WD (deg)
11:00 AM - 12:00 PM	0.5	148.0	SSE	0.2	-	-	0.8	165.0	SSE	0.3	150.0	SSE	1.0	165.0
12:00 PM - 01:00 PM	0.6	169.0	S	0.5	124.0	SE	0.4	229.0	SW	0.4	204.0	SSW	1.5	233.0
01:00 PM - 02:00 PM	1.4	261.0	W	0.3	155.0	SSE	0.4	173.0	S	0.9	162.0	SSE	0.9	166.0
02:00 PM - 03:00 PM	1.0	206.0	SSW	0.5	138.0	SE	0.7	185.0	S	0.6	192.0	SSW	0.5	147.0
03:00 PM - 04:00 PM	0.8	181.0	S	1.2	181.0	S	0.2	-	-	0.7	181.0	S	0.7	207.0
04:00 PM - 05:00 PM	0.3	175.0	S	0.5	174.0	S	0.8	184.0	S	0.0	-	-	1.4	168.0
05:00 PM - 06:00 PM	0.0	-	-	0.6	139.0	SE	0.7	172.0	S	0.0	-	-	0.2	-
06:00 PM - 07:00 PM	0.2	-	-	0.4	183.0	S	0.3	172.0	S	0.1	-	-	0.3	119.0
07:00 PM - 08:00 PM	0.6	184.0	S	1.2	176.0	S	0.6	157.0	SSE	0.6	201.0	SSW	0.6	129.0
08:00 PM - 09:00 PM	0.1	-	-	0.3	133.0	SE	0.6	157.0	SSE	0.3	133.0	SE	0.3	125.0
09:00 PM - 10:00 PM	0.2	-	-	0.8	124.0	SE	0.0	-	-	0.5	139.0	SE	0.9	110.0
10:00 PM - 11:00 PM	0.3	126.0	SE	1.4	154.0	SSE	0.5	140.0	SE	0.7	127.0	SE	1.3	198.0
11:00 PM - 12:00 AM	0.3	127.0	SE	1.0	133.0	SE	0.4	139.0	SE	1.0	152.0	SSE	0.6	203.0
12:00 AM - 01:00 AM	0.2	-	-	1.0	144.0	SE	0.0	-	-	0.7	154.0	SSE	0.3	205.0
01:00 AM - 02:00 AM	0.5	131.0	SE	0.5	121.0	ESE	0.9	129.0	SE	0.4	130.0	SE	0.0	-
02:00 AM - 03:00 AM	0.0	-	-	0.3	155.0	SSE	0.2	-	-	0.4	140.0	SE	0.0	-
03:00 AM - 04:00 AM	0.3	143.0	SE	0.4	129.0	SE	0.5	145.0	SE	0.5	111.0	ESE	0.2	-
04:00 AM - 05:00 AM	0.0	-	-	0.7	158.0	SSE	0.2	-	-	0.0	-	-	0.1	-
05:00 AM - 06:00 AM	0.0	-	-	0.9	139.0	SE	0.3	141.0	SE	0.6	149.0	SSE	0.0	-
06:00 AM - 07:00 AM	0.5	142.0	SE	0.3	149.0	SSE	0.0	-	-	0.3	134.0	SE	0.0	-
07:00 AM - 08:00 AM	1.1	183.0	S	0.9	168.0	SSE	0.8	174.0	S	1.0	133.0	SE	0.6	157.0
08:00 AM - 09:00 AM	0.7	156.0	SSE	0.5	178.0	S	0.0	-	-	0.5	134.0	SE	0.3	140.0
09:00 AM - 10:00 AM	0.4	155.0	SSE	0.4	175.0	S	0.8	182.0	S	1.4	156.0	SSE	0.0	-
10:00 AM - 11:00 AM	0.0	-	-	0.6	168.0	SSE	0.5	162.0	SSE	0.7	150.0	SSE	0.2	-

Reference Method : Cup Anemometer & Anodized Aluminium Vane Method

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

Approved by

Sarayuth Jittranont  
Assistant General Manager

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## Analysis / Test Report

Client : WHA Saraburi Industrial Land Co., Ltd.

111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140

P/O : 54250024

Project Name : Monitoring

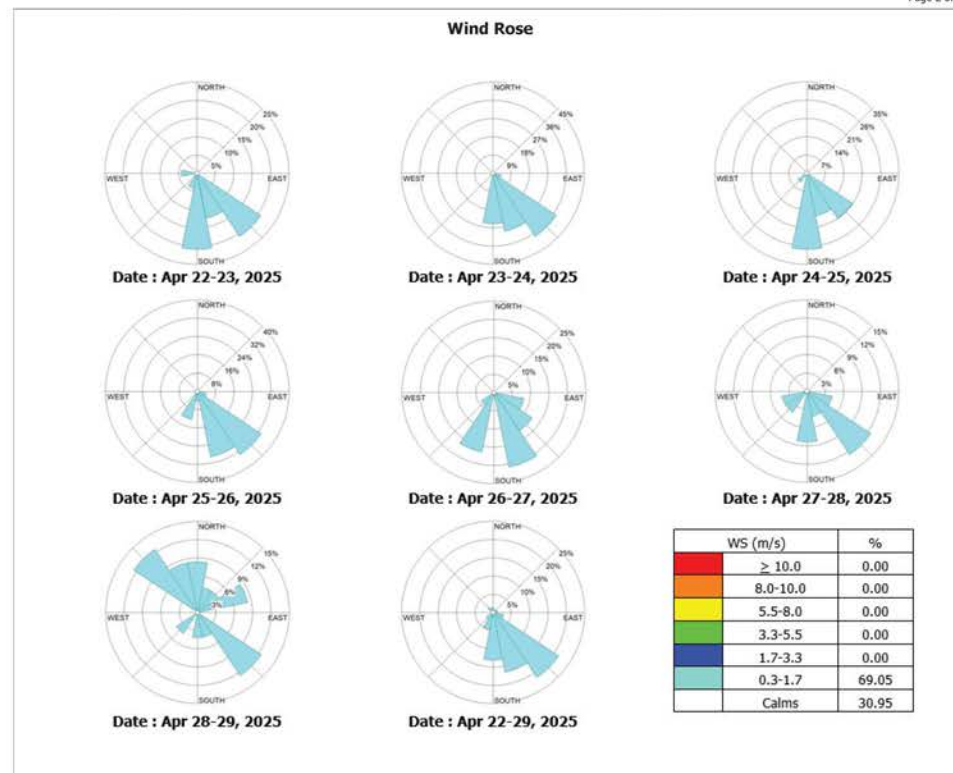
Project Location : WHA SIL

Lot ID: 2531647

Date Received : Apr 30, 2025

Date Reported : May 10, 2025

Report Number : 3273128-1



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Sarayuth Jittranont  
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## Analysis / Test Report

Client : WHA Saraburi Industrial Land Co., Ltd.

111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140

P/O : 54250024

Project Name : Monitoring

Project Location : WHA SIL

Lot ID: 2531647

Date Received : Apr 30, 2025

Date Reported : May 10, 2025

Report Number : 3273128-1

Sample Number : 2531647-15 to 21

Parameter : Wind Speed / Wind Direction

Location : ร. 101/101 ม. 7 ต. นongplakradi อ. นongkhae จ. ส. ร. (GPS 47P 0698465, 1594331)

Sampling Date : Apr 22 - Apr 29, 2025

Sampling by : Winyou Boontana

Time	Apr 22 - Apr 23, 2025			Apr 23 - Apr 24, 2025			Apr 24 - Apr 25, 2025			Apr 25 - Apr 26, 2025			Apr 26 - Apr 27, 2025			Apr 27 - Apr 28, 2025			Apr 28 - Apr 29, 2025		
	WS (m/s)	WD (deg)		WS (m/s)	WD (deg)		WS (m/s)	WD (deg)		WS (m/s)	WD (deg)		WS (m/s)	WD (deg)		WS (m/s)	WD (deg)		WS (m/s)	WD (deg)	
12:00 PM - 01:00 PM	1.0	95.0	E	0.0	-	-	2.2	119.0	ESE	0.0	-	-	1.3	197.0	SSW	2.0	170.0	S	0.4	287.0	WNW
01:00 PM - 02:00 PM	0.6	110.0	ESE	0.0	-	-	1.8	151.0	SSE	1.7	134.0	SE	1.9	129.0	SE	0.7	133.0	SE	0.0	-	-
02:00 PM - 03:00 PM	1.3	136.0	SE	0.0	-	-	2.9	147.0	SSE	0.0	-	-	1.2	181.0	S	0.9	177.0	S	1.6	347.0	NNW
03:00 PM - 04:00 PM	3.1	169.0	S	0.0	-	-	1.5	148.0	SSE	0.0	-	-	0.0	-	-	0.0	-	-	1.6	354.0	N
04:00 PM - 05:00 PM	0.9	162.0	SSE	0.0	-	-	1.6	172.0	S	0.0	-	-	0.8	152.0	SSE	0.0	-	-	1.0	145.0	SE
05:00 PM - 06:00 PM	1.3	148.0	SSE	1.8	134.0	SE	1.2	181.0	S	0.0	-	-	0.8	118.0	ESE	0.0	-	-	1.4	199.0	SSW
06:00 PM - 07:00 PM	1.0	182.0	S	1.8	180.0	S	4.3	137.0	SE	0.0	-	-	2.7	149.0	SSE	0.8	134.0	SE	0.0	-	-
07:00 PM - 08:00 PM	1.7	175.0	S	2.0	186.0	S	1.3	144.0	SE	0.0	-	-	0.7	136.0	SE	0.0	-	-	0.0	-	-
08:00 PM - 09:00 PM	2.0	154.0	SSE	1.6	145.0	SE	1.5	197.0	SSW	0.9	164.0	SSE	0.7	93.0	E	0.0	-	-	0.0	-	-
09:00 PM - 10:00 PM	0.6	202.0	SSW	2.5	180.0	S	0.6	144.0	SE	1.2	135.0	SE	0.7	110.0	ESE	0.0	-	-	0.0	-	-
10:00 PM - 11:00 PM	0.6	145.0	SE	0.0	-	-	1.8	174.0	S	1.7	196.0	SSW	1.7	346.0	NNW	0.0	-	-	0.0	-	-
11:00 PM - 12:00 AM	0.2	-	-	0.0	-	-	1.3	138.0	SE	1.6	153.0	SSE	0.0	-	-	0.0	-	-	0.0	-	-
12:00 AM - 01:00 AM	0.0	-	-	1.9	137.0	SE	0.7	146.0	SE	1.7	135.0	SE	1.5	176.0	S	0.0	-	-	0.0	-	-
01:00 AM - 02:00 AM	0.3	164.0	SSE	1.1	136.0	SE	0.0	-	-	1.1	160.0	SSE	1.4	359.0	N	0.0	-	-	1.1	5.0	N
02:00 AM - 03:00 AM	0.4	142.0	SE	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-	0.4	359.0	N
03:00 AM - 04:00 AM	0.4	171.0	S	1.6	132.0	SE	0.0	-	-	2.1	158.0	SSE	0.0	-	-	0.0	-	-	1.5	359.0	N
04:00 AM - 05:00 AM	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-	0.6	147.0	SSE	0.0	-	-	2.3	10.0	N
05:00 AM - 06:00 AM	0.0	-	-	0.0	-	-	0.6	142.0	SE	0.0	-	-	0.0	-	-	0.0	-	-	1.5	24.0	NNE
06:00 AM - 07:00 AM	0.9	140.0	SE	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-	2.3	349.0	N
07:00 AM - 08:00 AM	1.0	155.0	SSE	1.4	157.0	SSE	2.1	152.0	SSE	0.5	151.0	SSE	0.4	195.0	SSW	0.0	-	-	0.5	359.0	N
08:00 AM - 09:00 AM	1.0	158.0	SSE	0.8	129.0	SE	3.7	178.0	S	1.0	170.0	S	0.3	125.0	SE	0.5	145.0	SE	1.3	359.0	N
09:00 AM - 10:00 AM	1.2	164.0	SSE	3.0	169.0	S	1.1	140.0	SE	1.5	171.0	S	1.1	162.0	SSE	1.1	178.0	S	1.1	130.0	SE
10:00 AM - 11:00 AM	0.7	10.0	N	1.8	174.0	S	0.4	161.0	SSE	1.3	95.0	E	1.4	135.0	SE	0.2	-	-	0.8	100.0	E
11:00 AM - 12:00 PM	0.0	-	-	1.3	87.0	E	1.4	163.0	SSE	1.4	127.0	SE	1.0	151.0	SSE	1.5	151.0	SSE	0.5	98.0	E

Reference Method : Cup Anemometer & Anodized Aluminium Vane Method

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

Approved by

Sarayuth Jitranont  
Assistant General Manager

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## Analysis / Test Report

Client : WHA Saraburi Industrial Land Co., Ltd.

111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140

P/O : 54250024

Project Name : Monitoring

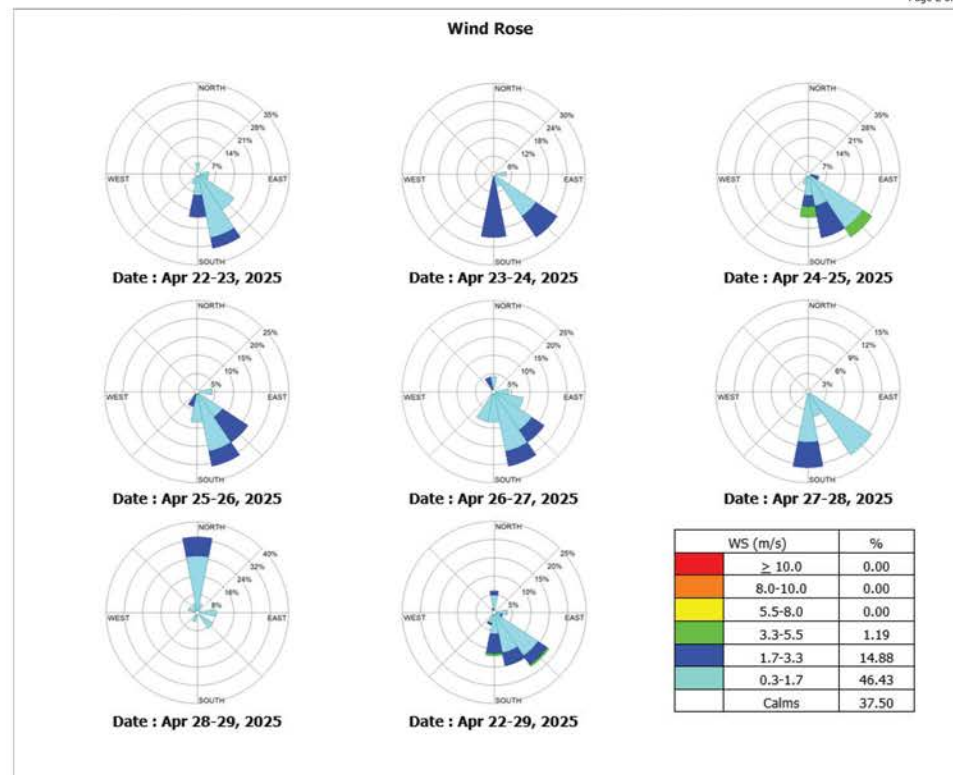
Project Location : WHA SIL

Lot ID: 2531647

Date Received : Apr 30, 2025

Date Reported : May 10, 2025

Report Number : 3273128-1



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## Analysis / Test Report

Client : WHA Saraburi Industrial Land Co., Ltd.

111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140

P/O : 54250024

Project Name : Monitoring

Project Location : WHA SIL

Lot ID: 2531647

Date Received : Apr 30, 2025

Date Reported : May 10, 2025

Report Number : 3273128-1

Sample Number : 2531647-8 to 14

Parameter : Wind Speed / Wind Direction

Location : ร. ป่านโหนดทุ่งดินนา ถนนป่านโหนดทุ่งดินนา (GPS 47P 0697239, 1589433)

Sampling Date : Apr 22 - Apr 29, 2025

Sampling by : Winyou Boontana

Time	Apr 22 - Apr 23, 2025			Apr 23 - Apr 24, 2025			Apr 24 - Apr 25, 2025			Apr 25 - Apr 26, 2025			Apr 26 - Apr 27, 2025			Apr 27 - Apr 28, 2025			Apr 28 - Apr 29, 2025		
	WS (m/s)	WD (deg)		WS (m/s)	WD (deg)		WS (m/s)	WD (deg)		WS (m/s)	WD (deg)		WS (m/s)	WD (deg)		WS (m/s)	WD (deg)		WS (m/s)	WD (deg)	
10:00 AM - 11:00 AM	1.5	180.0	S	1.6	262.0	W	1.4	231.0	SW	1.8	235.0	SW	1.9	180.0	S	3.1	159.0	SSE	1.7	263.0	W
11:00 AM - 12:00 PM	3.1	192.0	SSW	0.6	0.0	N	1.1	90.0	E	2.0	278.0	W	2.5	179.0	S	1.3	153.0	SSE	0.9	133.0	SSE
12:00 PM - 01:00 PM	1.2	179.0	S	1.4	185.0	S	0.7	101.0	E	1.4	246.0	WSW	1.5	251.0	WSW	0.0	-	-	3.0	59.0	ENE
01:00 PM - 02:00 PM	1.1	259.0	W	3.4	273.0	W	0.9	187.0	S	2.7	167.0	SSE	0.4	261.0	W	0.0	-	-	1.3	344.0	NNW
02:00 PM - 03:00 PM	0.7	244.0	WSW	0.7	81.0	E	1.5	140.0	SE	0.6	202.0	SSW	1.7	203.0	SSW	0.9	209.0	SSW	1.2	58.0	ENE
03:00 PM - 04:00 PM	0.5	251.0	WSW	0.8	153.0	SSE	1.0	233.0	SW	0.6	146.0	SE	2.2	235.0	SW	0.8	178.0	S	3.4	2.0	N
04:00 PM - 05:00 PM	1.4	227.0	SW	0.5	278.0	W	0.1	-	-	0.0	-	-	2.1	184.0	S	0.3	58.0	ENE	0.4	66.0	ENE
05:00 PM - 06:00 PM	1.7	220.0	SW	1.2	268.0	W	1.7	185.0	S	0.7	248.0	WSW	1.0	189.0	S	0.0	-	-	0.0	-	-
06:00 PM - 07:00 PM	1.4	241.0	WSW	1.0	171.0	S	1.6	202.0	SSW	0.2	-	-	1.2	132.0	SE	2.0	230.0	SW	1.5	144.0	SE
07:00 PM - 08:00 PM	1.0	200.0	SSW	2.8	191.0	S	2.0	235.0	SW	0.8	226.0	SW	1.2	105.0	ESE	0.0	-	-	1.3	67.0	ENE
08:00 PM - 09:00 PM	0.6	237.0	WSW	1.0	197.0	SSW	0.3	95.0	E	2.2	150.0	SSE	3.2	159.0	SSE	1.0	105.0	ESE	1.1	87.0	E
09:00 PM - 10:00 PM	0.4	171.0	S	0.9	181.0	S	1.9	180.0	S	1.7	171.0	S	1.7	133.0	SE	1.6	145.0	SE	0.7	142.0	SE
10:00 PM - 11:00 PM	0.6	249.0	WSW	1.0	148.0	SSE	0.8	193.0	SSW	2.3	208.0	SSW	5.5	88.0	E	1.0	177.0	S	0.2	-	-
11:00 PM - 12:00 AM	1.1	174.0	S	1.4	155.0	SSE	0.3	174.0	S	4.2	163.0	SSW	1.4	274.0	W	0.0	-	-	1.1	359.0	N
12:00 AM - 01:00 AM	1.1	193.0	SSW	1.5	166.0	SSE	1.4	161.0	SSE	0.7	270.0	W	0.3	340.0	NNW	0.8	215.0	SW	0.6	354.0	N
01:00 AM - 02:00 AM	1.9	162.0	SSE	3.3	146.0	SE	2.3	160.0	SSE	2.1	164.0	SSE	2.4	88.0	E	1.2	171.0	S	0.2	-	-
02:00 AM - 03:00 AM	2.1	145.0	SE	2.4	135.0	SE	3.2	138.0	SE	2.7	148.0	SSE	0.7	130.0	SE	0.7	168.0	SSE	3.0	74.0	ENE
03:00 AM - 04:00 AM	1.3	182.0	S	2.5	166.0	SSE	1.1	166.0	SSE	1.3	160.0	SSE	1.5	180.0	S	0.0	-	-	0.8	75.0	ENE
04:00 AM - 05:00 AM	1.7	139.0	SE	1.2	163.0	SSE	1.9	176.0	S	2.2	169.0	S	0.9	247.0	WSW	1.8	141.0	SE	1.0	80.0	E
05:00 AM - 06:00 AM	1.6	134.0	SE	2.5	154.0	SSE	1.7	124.0	SE	4.1	155.0	SSE	0.0	-	-	0.2	-	-	1.5	73.0	ENE
06:00 AM - 07:00 AM	1.1	192.0	SSW	3.0	144.0	SE	2.5	164.0	SSE	2.6	154.0	SSE	0.0	-	-	1.7	148.0	SSE	2.0	74.0	ENE
07:00 AM - 08:00 AM	1.8	184.0	S	2.8	175.0	S	2.8	194.0	SSW	2.4	112.0	ESE	1.7	169.0	S	2.7	145.0	SE	0.0	-	-
08:00 AM - 09:00 AM	0.3	164.0	SSE	1.6	163.0	SSE	2.3	142.0	SE	2.5	166.0	SSE	2.9	124.0	SE	1.9	237.0	WSW	0.0	-	-
09:00 AM - 10:00 AM	0.0	-	-	0.5	214.0	SW	0.3	115.0	ESE	1.0	103.0	ESE	2.3	273.0	W	0.0	-	-	0.2	-	-

Reference Method : Cup Anemometer & Anodized Aluminium Vane Method

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## Analysis / Test Report

Client : WHA Saraburi Industrial Land Co., Ltd.

111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140

P/O : 54250024

Project Name : Monitoring

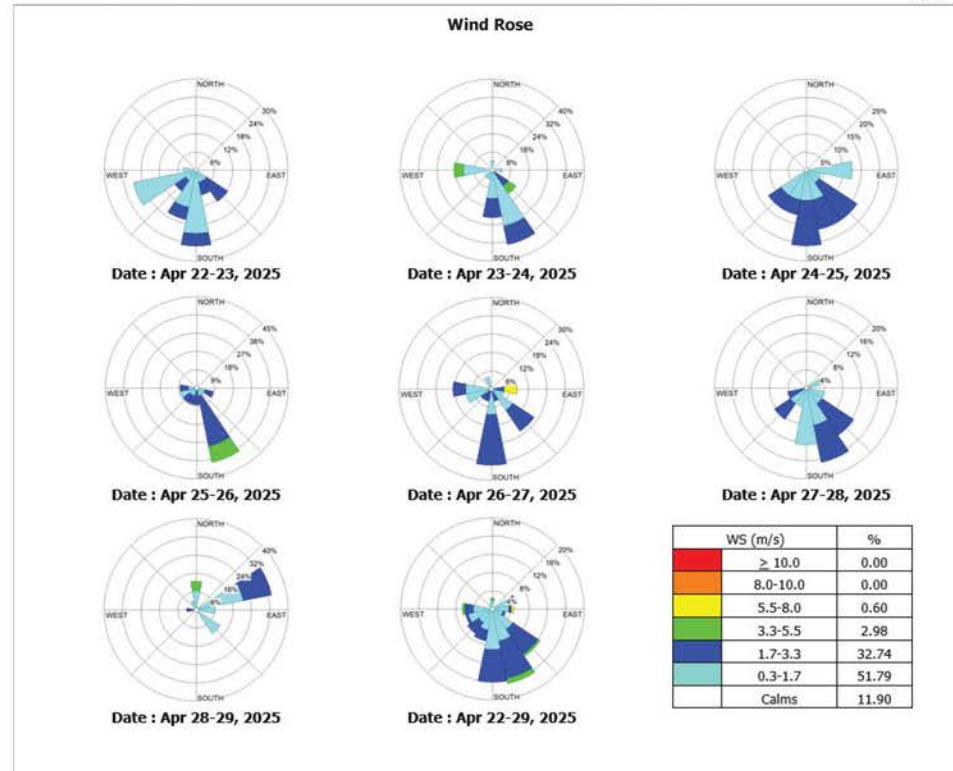
Project Location : WHA SIL

Lot ID: 2531647

Date Received : Apr 30, 2025

Date Reported : May 10, 2025

Report Number : 3273128-1



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ภาคผนวก ค-2

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ระดับเสียงในบรรยากาศโดยทั่วไป





## Analysis / Test Report

**Client :** WHA Saraburi Industrial Land Co., Ltd.  
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140

**P/O :** 54250024

**Project Name :** Monitoring

**Project Location :** WHA SIL

**Lot ID: 2531655**

Date Received : Apr 30, 2025

Date Reported : May 09, 2025

Report Number: 3301957-1

Page 1 of 1

**Sample Number** 2531655-1  
**Parameter** Noise (Leq 24 hrs.)  
**Location** บริเวณสำนักงานบริษัท (GPS 47P 0698599, 1589315)  
**Measurement Date** Apr 26 - Apr 27, 2025  
**Measurement by** Winyou Boontanai  
**Sound Level meter** Serial No. 858527

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
10:00 AM - 11:00 AM	54.8	71.4	51.5
11:00 AM - 12:00 PM	53.4	70.8	50.4
12:00 PM - 01:00 PM	54.4	76.9	50.3
01:00 PM - 02:00 PM	62.2	76.8	51.9
02:00 PM - 03:00 PM	57.6	74.2	51.8
03:00 PM - 04:00 PM	55.9	74.9	51.4
04:00 PM - 05:00 PM	55.1	69.7	52.3
05:00 PM - 06:00 PM	55.2	70.9	52.9
06:00 PM - 07:00 PM	59.0	86.2	53.0
07:00 PM - 08:00 PM	55.2	71.2	52.0
08:00 PM - 09:00 PM	55.3	72.7	51.4
09:00 PM - 10:00 PM	53.0	67.9	50.4
10:00 PM - 11:00 PM	59.3	76.6	51.0
11:00 PM - 12:00 AM	59.6	82.2	54.5
12:00 AM - 01:00 AM	68.1	99.5	63.7
01:00 AM - 02:00 AM	66.6	75.0	66.1
02:00 AM - 03:00 AM	66.3	73.3	65.6
03:00 AM - 04:00 AM	63.8	67.7	62.5
04:00 AM - 05:00 AM	62.9	72.9	62.1
05:00 AM - 06:00 AM	60.0	74.0	55.1
06:00 AM - 07:00 AM	57.6	78.4	53.9
07:00 AM - 08:00 AM	57.9	77.8	53.7
08:00 AM - 09:00 AM	57.2	72.5	53.3
09:00 AM - 10:00 AM	53.5	70.5	51.7

Leq Average 24 hrs. (dB(A))

61.0

Lmax (dB(A))

99.5

L90 (dB(A))

52.3

Ldn (dB(A))

69.9

Standard (dB(A))

70

115

Reference Method : ISO1996-1 and 1996-2

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

Technical Management

*Orawan R.*  
Orawan Rakyong  
Scientist (3)

Approved by

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Supot Salamteh  
Section Head

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S:\Reports\_Air Noise rpt ( 2:49PM)



## Analysis / Test Report

**Client :** WHA Saraburi Industrial Land Co., Ltd.  
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140

**P/O :** 54250024

**Project Name :** Monitoring

**Project Location :** WHA SIL

**Lot ID: 2531655**

Date Received : Apr 30, 2025

Date Reported : May 09, 2025

Report Number: 3301958-1

Page 1 of 1

**Sample Number** 2531655-2  
**Parameter** Noise (Leq 24 hrs.)  
**Location** บริเวณสำนักงานบริษัท (GPS 47P 0698599, 1589315)  
**Measurement Date** Apr 27 - Apr 28, 2025  
**Measurement by** Winyou Boontanai  
**Sound Level meter** Serial No. 858527

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
10:00 AM - 11:00 AM	56.2	76.0	51.8
11:00 AM - 12:00 PM	56.9	76.8	51.3
12:00 PM - 01:00 PM	55.9	71.2	50.8
01:00 PM - 02:00 PM	54.8	79.5	50.6
02:00 PM - 03:00 PM	55.4	76.8	50.1
03:00 PM - 04:00 PM	56.7	75.5	52.2
04:00 PM - 05:00 PM	53.7	72.3	50.8
05:00 PM - 06:00 PM	54.0	73.2	50.7
06:00 PM - 07:00 PM	55.4	78.6	51.4
07:00 PM - 08:00 PM	55.4	69.5	53.0
08:00 PM - 09:00 PM	55.8	73.6	53.5
09:00 PM - 10:00 PM	55.9	72.0	53.7
10:00 PM - 11:00 PM	59.8	71.0	58.3
11:00 PM - 12:00 AM	59.7	66.9	58.6
12:00 AM - 01:00 AM	56.8	68.4	54.6
01:00 AM - 02:00 AM	54.0	66.6	52.7
02:00 AM - 03:00 AM	52.5	67.0	51.2
03:00 AM - 04:00 AM	52.6	63.3	51.0
04:00 AM - 05:00 AM	56.9	63.1	54.7
05:00 AM - 06:00 AM	56.8	71.1	54.6
06:00 AM - 07:00 AM	58.5	72.4	53.4
07:00 AM - 08:00 AM	58.1	76.4	53.7
08:00 AM - 09:00 AM	57.8	72.3	53.0
09:00 AM - 10:00 AM	56.9	71.6	52.5

Leq Average 24 hrs. (dB(A))

56.5

Lmax (dB(A))

79.5

L90 (dB(A))

52.5

Ldn (dB(A))

63.4

Standard (dB(A))

70

115

Reference Method : ISO1996-1 and 1996-2

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

Technical Management

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Scientist (3)

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S:\Reports\_Air Noise rpt ( 2:49PM)



## Analysis / Test Report

**Client :** WHA Saraburi Industrial Land Co., Ltd.  
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140

**P/O :** 54250024

**Project Name :** Monitoring

**Project Location :** WHA SIL

**Lot ID: 2531655**

Date Received : Apr 30, 2025

Date Reported : May 09, 2025

Report Number: 3301959-1

Page 1 of 1

**Sample Number** 2531655-3  
**Parameter** Noise (Leq 24 hrs.)  
**Location** บริเวณสำนักงานบริษัท (GPS 47P 0698599, 1589315)  
**Measurement Date** Apr 28 - Apr 29, 2025  
**Measurement by** Winyou Boontanai  
**Sound Level meter** Serial No. 858527

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
10:00 AM - 11:00 AM	60.2	72.5	54.2
11:00 AM - 12:00 PM	56.6	82.4	51.9
12:00 PM - 01:00 PM	56.8	76.7	51.7
01:00 PM - 02:00 PM	56.1	71.6	52.2
02:00 PM - 03:00 PM	57.7	72.7	52.0
03:00 PM - 04:00 PM	56.4	71.0	52.2
04:00 PM - 05:00 PM	56.3	75.1	53.1
05:00 PM - 06:00 PM	56.5	76.9	52.7
06:00 PM - 07:00 PM	58.8	79.7	54.1
07:00 PM - 08:00 PM	57.0	79.9	53.6
08:00 PM - 09:00 PM	57.1	77.1	53.6
09:00 PM - 10:00 PM	55.1	72.1	52.2
10:00 PM - 11:00 PM	53.5	64.8	51.6
11:00 PM - 12:00 AM	53.4	66.4	51.1
12:00 AM - 01:00 AM	54.6	72.1	51.6
01:00 AM - 02:00 AM	53.7	65.8	51.2
02:00 AM - 03:00 AM	52.2	68.1	50.4
03:00 AM - 04:00 AM	51.5	70.4	50.2
04:00 AM - 05:00 AM	51.8	68.6	50.4
05:00 AM - 06:00 AM	54.4	76.9	51.3
06:00 AM - 07:00 AM	59.2	75.4	52.5
07:00 AM - 08:00 AM	58.8	76.5	53.5
08:00 AM - 09:00 AM	59.5	78.9	55.1
09:00 AM - 10:00 AM	57.4	73.0	52.7

Leq Average 24 hrs. (dB(A))

56.7

Lmax (dB(A))

82.4

L90 (dB(A))

52.2

Ldn (dB(A))

61.5

Standard (dB(A))

70

115

Reference Method : ISO1996-1 and 1996-2

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

Technical Management

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Scientist (3)

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S:\Reports\_Air Noise rpt ( 2:50PM)



## Analysis / Test Report

**Client :** WHA Saraburi Industrial Land Co., Ltd.  
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140

**P/O :** 54250024

**Project Name :** Monitoring

**Project Location :** WHA SIL

**Lot ID: 2531655**

Date Received : Apr 30, 2025

Date Reported : May 09, 2025

Report Number: 3301966-1

Page 1 of 1

**Sample Number** 2531655-10  
**Parameter** Noise (Leq 24 hrs.)  
**Location** รร. วัดหนองปลาหมอ หมู่ชนบ้านหนองผักชีใต้ (GPS 47P 0700733, 1590964)  
**Measurement Date** Apr 26 - Apr 27, 2025  
**Measurement by** Winyou Boontanai  
**Sound Level meter** Serial No. 572552

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
12:00 PM - 01:00 PM	57.9	79.5	47.7
01:00 PM - 02:00 PM	56.2	74.8	46.0
02:00 PM - 03:00 PM	58.9	86.1	49.2
03:00 PM - 04:00 PM	57.2	77.1	47.0
04:00 PM - 05:00 PM	57.7	75.3	48.9
05:00 PM - 06:00 PM	57.5	78.9	48.7
06:00 PM - 07:00 PM	64.3	83.6	52.6
07:00 PM - 08:00 PM	52.8	74.7	44.0
08:00 PM - 09:00 PM	50.1	65.3	45.6
09:00 PM - 10:00 PM	53.6	78.9	45.5
10:00 PM - 11:00 PM	59.9	83.5	46.8
11:00 PM - 12:00 AM	58.6	77.3	48.1
12:00 AM - 01:00 AM	62.2	85.4	48.5
01:00 AM - 02:00 AM	50.2	70.3	45.5
02:00 AM - 03:00 AM	52.4	72.8	49.0
03:00 AM - 04:00 AM	51.2	71.1	48.4
04:00 AM - 05:00 AM	52.3	71.8	49.4
05:00 AM - 06:00 AM	59.3	79.8	52.8
06:00 AM - 07:00 AM	57.4	78.7	51.4
07:00 AM - 08:00 AM	61.0	81.5	52.6
08:00 AM - 09:00 AM	61.5	82.4	52.1
09:00 AM - 10:00 AM	59.5	79.9	49.1
10:00 AM - 11:00 AM	56.5	73.4	46.1
11:00 AM - 12:00 PM	59.6	81.7	49.5

Leq Average 24 hrs. (dB(A))

58.5

Lmax (dB(A))

86.1

L90 (dB(A))

48.5

Ldn (dB(A))

64.3

Standard (dB(A))

70

115

Reference Method : ISO1996-1 and 1996-2

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

Technical Management

*Orawan R.*  
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Scientist (3)

Approved by

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S:\Reports\_Air Noise rpt ( 2:53PM)



## Analysis / Test Report

**Client :** WHA Saraburi Industrial Land Co., Ltd.  
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140

**P/O :** 54250024

**Project Name :** Monitoring

**Project Location :** WHA SIL

**Lot ID: 2531655**

Date Received : Apr 30, 2025

Date Reported : May 09, 2025

Report Number: 3301967-1

Page 1 of 1

**Sample Number** 2531655-11  
**Parameter** Noise (Leq 24 hrs.)  
**Location** รร. วัดหนองปลาหมอ หมู่ชนบ้านหนองผักชีโต (GPS 47P 0700733, 1590964)  
**Measurement Date** Apr 27 - Apr 28, 2025  
**Measurement by** Winyou Boontanai  
**Sound Level meter** Serial No. 572552

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
12:00 PM - 01:00 PM	58.6	77.5	48.8
01:00 PM - 02:00 PM	60.3	82.1	48.9
02:00 PM - 03:00 PM	57.4	77.6	47.4
03:00 PM - 04:00 PM	56.7	76.2	46.9
04:00 PM - 05:00 PM	58.7	81.8	47.6
05:00 PM - 06:00 PM	58.3	80.3	47.2
06:00 PM - 07:00 PM	58.9	73.3	51.7
07:00 PM - 08:00 PM	54.1	79.3	47.9
08:00 PM - 09:00 PM	54.8	70.4	48.9
09:00 PM - 10:00 PM	51.6	74.5	47.2
10:00 PM - 11:00 PM	50.2	72.3	45.6
11:00 PM - 12:00 AM	56.5	78.1	48.6
12:00 AM - 01:00 AM	51.1	70.0	49.3
01:00 AM - 02:00 AM	50.5	67.9	47.8
02:00 AM - 03:00 AM	49.5	69.5	47.1
03:00 AM - 04:00 AM	48.7	72.7	46.3
04:00 AM - 05:00 AM	56.4	73.6	46.3
05:00 AM - 06:00 AM	60.8	74.1	50.4
06:00 AM - 07:00 AM	57.7	76.0	51.7
07:00 AM - 08:00 AM	60.5	76.1	52.4
08:00 AM - 09:00 AM	61.6	76.8	54.3
09:00 AM - 10:00 AM	59.7	81.2	50.1
10:00 AM - 11:00 AM	62.3	82.9	51.0
11:00 AM - 12:00 PM	60.6	80.2	49.2

Leq Average 24 hrs. (dB(A))

58.0

Lmax (dB(A))

82.9

L90 (dB(A))

48.6

Ldn (dB(A))

62.6

Standard (dB(A))

70

115

Reference Method : ISO1996-1 and 1996-2

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

Technical Management

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S:\Reports\_Air Noise rpt ( 2:54PM)



## Analysis / Test Report

**Client :** WHA Saraburi Industrial Land Co., Ltd.  
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140

**P/O :** 54250024

**Project Name :** Monitoring

**Project Location :** WHA SIL

**Lot ID: 2531655**

Date Received : Apr 30, 2025

Date Reported : May 09, 2025

Report Number: 3301968-1

Page 1 of 1

**Sample Number** 2531655-12  
**Parameter** Noise (Leq 24 hrs.)  
**Location** รร. วัดหนองปลาหมอ หมู่ชนบ้านหนองผักชีโต (GPS 47P 0700733, 1590964)  
**Measurement Date** Apr 28 - Apr 29, 2025  
**Measurement by** Winyou Boontanai  
**Sound Level meter** Serial No. 572552

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
12:00 PM - 01:00 PM	61.1	82.1	50.8
01:00 PM - 02:00 PM	58.1	82.7	47.9
02:00 PM - 03:00 PM	57.4	75.2	47.6
03:00 PM - 04:00 PM	57.5	75.4	48.2
04:00 PM - 05:00 PM	57.8	74.0	52.0
05:00 PM - 06:00 PM	62.6	84.0	49.3
06:00 PM - 07:00 PM	58.4	73.7	50.9
07:00 PM - 08:00 PM	54.7	75.8	45.0
08:00 PM - 09:00 PM	53.4	77.3	44.1
09:00 PM - 10:00 PM	52.4	76.2	43.5
10:00 PM - 11:00 PM	51.9	75.1	45.7
11:00 PM - 12:00 AM	47.0	67.1	41.3
12:00 AM - 01:00 AM	48.8	71.4	39.6
01:00 AM - 02:00 AM	47.7	68.6	40.6
02:00 AM - 03:00 AM	47.6	72.7	42.4
03:00 AM - 04:00 AM	48.8	66.1	42.2
04:00 AM - 05:00 AM	56.5	68.2	45.4
05:00 AM - 06:00 AM	64.5	83.5	52.5
06:00 AM - 07:00 AM	57.9	77.8	50.7
07:00 AM - 08:00 AM	59.4	77.5	53.4
08:00 AM - 09:00 AM	64.1	76.6	54.4
09:00 AM - 10:00 AM	59.2	78.8	49.0
10:00 AM - 11:00 AM	55.7	72.6	45.3
11:00 AM - 12:00 PM	55.7	73.2	45.2

Leq Average 24 hrs. (dB(A))

58.3

Lmax (dB(A))

84.0

L90 (dB(A))

45.7

Ldn (dB(A))

63.6

Standard (dB(A))

70

115

Reference Method : ISO1996-1 and 1996-2

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

Technical Management

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## Analysis / Test Report

**Client :** WHA Saraburi Industrial Land Co., Ltd.

111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140

**P/O :** 54250024

**Project Name :** Monitoring

**Project Location :** WHA SIL

**Lot ID: 2531655**

Date Received : Apr 30, 2025

Date Reported : May 09, 2025

Report Number: 3301963-1

Page 1 of 1

**Sample Number** 2531655-7  
**Parameter** Noise (Leq 24 hrs.)  
**Location** รร. วัดป่าลพ อนุชนบ้านป่าลพกลาง (GPS 47P 0698465, 1594331)  
**Measurement Date** Apr 26 - Apr 27, 2025  
**Measurement by** Winyou Boontanai  
**Sound Level meter** Serial No. 858525

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
01:00 PM - 02:00 PM	55.1	69.8	47.4
02:00 PM - 03:00 PM	53.6	74.1	47.0
03:00 PM - 04:00 PM	53.1	68.4	46.9
04:00 PM - 05:00 PM	52.1	66.8	47.5
05:00 PM - 06:00 PM	52.9	70.4	48.2
06:00 PM - 07:00 PM	58.9	81.1	48.2
07:00 PM - 08:00 PM	48.9	67.8	46.1
08:00 PM - 09:00 PM	48.4	64.5	45.7
09:00 PM - 10:00 PM	48.7	70.2	45.5
10:00 PM - 11:00 PM	56.3	76.0	44.2
11:00 PM - 12:00 AM	55.9	71.6	48.6
12:00 AM - 01:00 AM	63.2	88.7	52.6
01:00 AM - 02:00 AM	53.4	73.3	52.1
02:00 AM - 03:00 AM	55.0	61.9	53.4
03:00 AM - 04:00 AM	58.4	65.0	54.6
04:00 AM - 05:00 AM	62.3	73.4	61.2
05:00 AM - 06:00 AM	61.7	78.3	57.9
06:00 AM - 07:00 AM	58.2	75.3	53.7
07:00 AM - 08:00 AM	57.0	74.7	53.3
08:00 AM - 09:00 AM	59.2	80.4	54.0
09:00 AM - 10:00 AM	55.9	77.0	50.0
10:00 AM - 11:00 AM	60.5	75.5	48.4
11:00 AM - 12:00 PM	54.6	76.5	48.7
12:00 PM - 01:00 PM	53.8	71.3	47.7

Leq Average 24 hrs. (dB(A))

Lmax (dB(A))

L90 (dB(A))

Ldn (dB(A))

Standard (dB(A))

Reference Method : ISO1996-1 and 1996-2

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

Technical Management

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## Analysis / Test Report

**Client :** WHA Saraburi Industrial Land Co., Ltd.

111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140

**P/O :** 54250024

**Project Name :** Monitoring

**Project Location :** WHA SIL

**Lot ID: 2531655**

Date Received : Apr 30, 2025

Date Reported : May 09, 2025

Report Number: 3301964-1

Page 1 of 1

**Sample Number** 2531655-8  
**Parameter** Noise (Leq 24 hrs.)  
**Location** รร. วัดป่าลพ อนุชนบ้านป่าลพกลาง (GPS 47P 0698465, 1594331)  
**Measurement Date** Apr 27 - Apr 28, 2025  
**Measurement by** Winyou Boontanai  
**Sound Level meter** Serial No. 858525

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
01:00 PM - 02:00 PM	53.8	73.4	46.8
02:00 PM - 03:00 PM	65.1	80.9	47.9
03:00 PM - 04:00 PM	55.6	80.0	49.1
04:00 PM - 05:00 PM	52.9	74.3	46.3
05:00 PM - 06:00 PM	52.8	75.4	46.5
06:00 PM - 07:00 PM	54.8	72.0	48.5
07:00 PM - 08:00 PM	50.8	64.7	48.9
08:00 PM - 09:00 PM	52.7	73.4	51.4
09:00 PM - 10:00 PM	53.0	73.9	51.6
10:00 PM - 11:00 PM	52.8	72.3	51.2
11:00 PM - 12:00 AM	51.4	71.5	49.0
12:00 AM - 01:00 AM	50.9	72.6	46.9
01:00 AM - 02:00 AM	53.6	62.0	48.9
02:00 AM - 03:00 AM	58.6	66.0	56.3
03:00 AM - 04:00 AM	58.1	62.2	56.0
04:00 AM - 05:00 AM	55.4	75.7	47.8
05:00 AM - 06:00 AM	57.3	76.3	47.9
06:00 AM - 07:00 AM	53.8	73.2	48.6
07:00 AM - 08:00 AM	55.5	79.2	49.6
08:00 AM - 09:00 AM	57.8	76.4	53.5
09:00 AM - 10:00 AM	57.3	81.4	49.0
10:00 AM - 11:00 AM	56.4	74.0	50.1
11:00 AM - 12:00 PM	53.7	73.1	47.8
12:00 PM - 01:00 PM	53.8	70.6	47.2

Leq Average 24 hrs. (dB(A))

Lmax (dB(A))

L90 (dB(A))

Ldn (dB(A))

Standard (dB(A))

Reference Method : ISO1996-1 and 1996-2

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

Technical Management

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## Analysis / Test Report

**Client :** WHA Saraburi Industrial Land Co., Ltd.  
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140  
**P/O :** 54250024  
**Project Name :** Monitoring  
**Project Location :** WHA SIL

**Lot ID: 2531655**  
Date Received : Apr 30, 2025  
Date Reported : May 09, 2025  
Report Number: 3301965-1

Page 1 of 1

**Sample Number** 2531655-9  
**Parameter** Noise (Leq 24 hrs.)  
**Location** รร. วัดป่าละอู หมู่ชนบ้านป่าละอูกลาง (GPS 47P 0698465, 1594331)  
**Measurement Date** Apr 28 - Apr 29, 2025  
**Measurement by** Winyou Boontanai  
**Sound Level meter** Serial No. 858525

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
01:00 PM - 02:00 PM	54.8	79.3	46.1
02:00 PM - 03:00 PM	54.9	76.6	48.8
03:00 PM - 04:00 PM	52.1	77.4	45.8
04:00 PM - 05:00 PM	54.4	74.5	46.2
05:00 PM - 06:00 PM	56.4	79.5	51.1
06:00 PM - 07:00 PM	52.4	69.4	46.9
07:00 PM - 08:00 PM	48.5	62.0	45.9
08:00 PM - 09:00 PM	48.9	69.2	46.8
09:00 PM - 10:00 PM	47.8	66.7	45.6
10:00 PM - 11:00 PM	47.8	61.0	45.7
11:00 PM - 12:00 AM	46.4	57.7	44.3
12:00 AM - 01:00 AM	45.2	53.9	43.5
01:00 AM - 02:00 AM	45.2	65.5	41.6
02:00 AM - 03:00 AM	43.4	58.5	41.1
03:00 AM - 04:00 AM	44.8	70.7	41.2
04:00 AM - 05:00 AM	48.5	69.8	41.8
05:00 AM - 06:00 AM	57.8	70.9	44.2
06:00 AM - 07:00 AM	52.3	83.0	47.8
07:00 AM - 08:00 AM	56.4	75.6	47.6
08:00 AM - 09:00 AM	59.8	72.0	53.2
09:00 AM - 10:00 AM	57.1	69.4	49.5
10:00 AM - 11:00 AM	56.2	72.4	47.5
11:00 AM - 12:00 PM	56.5	84.2	50.3
12:00 PM - 01:00 PM	53.8	75.0	45.9

Leq Average 24 hrs. (dB(A)) 53.9  
Lmax (dB(A)) 84.2  
L90 (dB(A)) 45.9  
Ldn (dB(A)) 58.1  
Standard (dB(A)) 70 115  
Reference Method : ISO1996-1 and 1996-2  
Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป  
2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดค่าระดับเสียงการรบกวน และระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548

Technical Management

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## Analysis / Test Report

**Client :** WHA Saraburi Industrial Land Co., Ltd.  
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140  
**P/O :** 54250024  
**Project Name :** Monitoring  
**Project Location :** WHA SIL

**Lot ID: 2531655**  
Date Received : Apr 30, 2025  
Date Reported : May 09, 2025  
Report Number: 3301960-1

Page 1 of 1

**Sample Number** 2531655-4  
**Parameter** Noise (Leq 24 hrs.)  
**Location** รร. บ้านใหม่ทุ่งต้นขอ หมู่ชนบ้านใหม่ทุ่งต้นขอ (GPS 47P 0697239, 1589433)  
**Measurement Date** Apr 26 - Apr 27, 2025  
**Measurement by** Winyou Boontanai  
**Sound Level meter** Serial No. 597159

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
11:00 AM - 12:00 PM	48.7	67.0	43.6
12:00 PM - 01:00 PM	49.2	68.5	42.8
01:00 PM - 02:00 PM	51.4	65.5	43.4
02:00 PM - 03:00 PM	53.0	69.1	48.8
03:00 PM - 04:00 PM	55.1	77.5	46.6
04:00 PM - 05:00 PM	54.4	68.5	47.0
05:00 PM - 06:00 PM	57.6	80.8	52.2
06:00 PM - 07:00 PM	56.8	71.0	53.9
07:00 PM - 08:00 PM	53.2	69.5	50.8
08:00 PM - 09:00 PM	52.7	65.2	50.0
09:00 PM - 10:00 PM	52.8	73.4	48.9
10:00 PM - 11:00 PM	64.3	84.6	49.0
11:00 PM - 12:00 AM	52.6	75.0	49.1
12:00 AM - 01:00 AM	58.7	86.0	49.0
01:00 AM - 02:00 AM	52.7	71.9	49.4
02:00 AM - 03:00 AM	54.3	71.8	51.3
03:00 AM - 04:00 AM	53.9	68.4	51.6
04:00 AM - 05:00 AM	57.9	77.5	55.4
05:00 AM - 06:00 AM	58.9	77.4	54.0
06:00 AM - 07:00 AM	55.1	74.2	48.6
07:00 AM - 08:00 AM	54.5	78.6	47.1
08:00 AM - 09:00 AM	55.7	72.6	49.6
09:00 AM - 10:00 AM	56.6	76.1	46.5
10:00 AM - 11:00 AM	54.2	73.0	46.8

Leq Average 24 hrs. (dB(A)) 56.3  
Lmax (dB(A)) 86.0  
L90 (dB(A)) 49.0  
Ldn (dB(A)) 64.3  
Standard (dB(A)) 70 115  
Reference Method : ISO1996-1 and 1996-2  
Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป  
2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดค่าระดับเสียงการรบกวน และระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548

Technical Management

*Orawan R.*  
Orawan Rakyong  
Scientist (3)

Approved by

*Supot S.*  
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## Analysis / Test Report

**Client :** WHA Saraburi Industrial Land Co., Ltd.  
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140

**P/O :** 54250024

**Project Name :** Monitoring

**Project Location :** WHA SIL

**Lot ID: 2531655**

Date Received : Apr 30, 2025

Date Reported : May 09, 2025

Report Number: 3301961-1

Page 1 of 1

**Sample Number** 2531655-5  
**Parameter** Noise (Leq 24 hrs.)  
**Location** รร. บ้านใหม่ทุ่งดินฆ้อ หมู่ชนบ้านใหม่ทุ่งดินฆ้อ (GPS 47P 0697239, 1589433)  
**Measurement Date** Apr 27 - Apr 28, 2025  
**Measurement by** Winyou Boontanai  
**Sound Level meter** Serial No. 597159

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
11:00 AM - 12:00 PM	56.3	72.6	48.0
12:00 PM - 01:00 PM	58.2	70.2	47.2
01:00 PM - 02:00 PM	52.4	78.3	45.2
02:00 PM - 03:00 PM	52.2	72.9	45.4
03:00 PM - 04:00 PM	52.2	72.1	46.7
04:00 PM - 05:00 PM	51.2	75.1	44.9
05:00 PM - 06:00 PM	51.7	70.8	45.8
06:00 PM - 07:00 PM	52.3	69.9	47.1
07:00 PM - 08:00 PM	56.0	70.2	52.8
08:00 PM - 09:00 PM	56.0	63.1	54.6
09:00 PM - 10:00 PM	54.2	64.0	52.5
10:00 PM - 11:00 PM	55.3	64.3	52.8
11:00 PM - 12:00 AM	55.0	63.0	52.8
12:00 AM - 01:00 AM	53.6	65.4	51.4
01:00 AM - 02:00 AM	51.8	67.4	49.5
02:00 AM - 03:00 AM	51.0	59.9	49.4
03:00 AM - 04:00 AM	52.2	64.5	49.5
04:00 AM - 05:00 AM	54.2	72.7	50.8
05:00 AM - 06:00 AM	56.0	74.4	52.4
06:00 AM - 07:00 AM	54.1	74.8	49.8
07:00 AM - 08:00 AM	52.6	71.5	47.5
08:00 AM - 09:00 AM	55.8	80.1	45.5
09:00 AM - 10:00 AM	57.1	86.0	45.3
10:00 AM - 11:00 AM	51.2	79.2	42.4

Leq Average 24 hrs. (dB(A)) 54.4  
Lmax (dB(A)) 86.0  
L90 (dB(A)) 48.0  
Ldn (dB(A)) 60.5  
Standard (dB(A)) 70 115

Reference Method : ISO1996-1 and 1996-2

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

Technical Management

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Orawan Rak Yong  
Scientist (3)

Approved by

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## Analysis / Test Report

**Client :** WHA Saraburi Industrial Land Co., Ltd.  
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140

**P/O :** 54250024

**Project Name :** Monitoring

**Project Location :** WHA SIL

**Lot ID: 2531655**

Date Received : Apr 30, 2025

Date Reported : May 09, 2025

Report Number: 3301962-1

Page 1 of 1

**Sample Number** 2531655-6  
**Parameter** Noise (Leq 24 hrs.)  
**Location** รร. บ้านใหม่ทุ่งดินฆ้อ หมู่ชนบ้านใหม่ทุ่งดินฆ้อ (GPS 47P 0697239, 1589433)  
**Measurement Date** Apr 28 - Apr 29, 2025  
**Measurement by** Winyou Boontanai  
**Sound Level meter** Serial No. 597159

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
11:00 AM - 12:00 PM	49.1	69.0	43.2
12:00 PM - 01:00 PM	49.3	74.1	42.8
01:00 PM - 02:00 PM	48.8	63.5	43.8
02:00 PM - 03:00 PM	49.8	77.5	44.5
03:00 PM - 04:00 PM	51.5	77.7	45.7
04:00 PM - 05:00 PM	51.1	72.7	46.5
05:00 PM - 06:00 PM	52.5	73.3	47.2
06:00 PM - 07:00 PM	52.9	77.1	48.4
07:00 PM - 08:00 PM	54.1	77.3	50.7
08:00 PM - 09:00 PM	55.1	66.3	52.8
09:00 PM - 10:00 PM	54.1	67.3	49.6
10:00 PM - 11:00 PM	52.9	66.0	50.1
11:00 PM - 12:00 AM	53.0	67.6	50.2
12:00 AM - 01:00 AM	51.4	65.1	48.9
01:00 AM - 02:00 AM	50.7	71.8	47.6
02:00 AM - 03:00 AM	49.1	61.2	47.3
03:00 AM - 04:00 AM	49.6	63.6	47.7
04:00 AM - 05:00 AM	51.4	70.5	48.6
05:00 AM - 06:00 AM	56.5	74.6	51.4
06:00 AM - 07:00 AM	53.9	68.7	49.3
07:00 AM - 08:00 AM	54.7	79.7	47.4
08:00 AM - 09:00 AM	53.2	75.4	45.6
09:00 AM - 10:00 AM	52.4	71.7	46.2
10:00 AM - 11:00 AM	52.1	72.6	44.7

Leq Average 24 hrs. (dB(A)) 52.5  
Lmax (dB(A)) 79.7  
L90 (dB(A)) 47.4  
Ldn (dB(A)) 59.0  
Standard (dB(A)) 70 115

Reference Method : ISO1996-1 and 1996-2

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

Technical Management

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Scientist (3)

Approved by

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คุณภาพน้ำผิวดิน





TESTING  
No.0009

## Analysis / Test Report

Client : WHA Saraburi Industrial Land Co., Ltd.

111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140

P/O : 54250024

Project Name : Monitoring

Project Location : WHA SIL

Lot ID: 2520898

Date Received : Mar 05, 2025

Date Reported : Mar 14, 2025

Report Number : 3248004-1

Page 1 of 9

Sample Number	2520898-1						
Sampled Date	Mar 05, 2025 1:20 PM						
Sample Description	Surface water						
Location	คลองระพีพัฒน์ บริเวณต้นน้ำก่อนถึงท่อผลของคลองหนองปรุ ประมาณ 500 เมตร						
Date Analysis Commenced	Mar 06, 2025						
Condition of Sample	Contained in two BOD bottles, one amber glass bottle and six plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Metals Testing</b>							
Hexavalent Chromium	mg/L	0.003	0.01	Not Detected	≤0.05	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3500-Cr B	Bangkok
Lead	mg/L	0.0003	0.0005	0.0008	≤0.05	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B, 3030 F	Bangkok
<b>Microbiological Testing</b>							
Total Coliform	MPN/100mL	-	-	330.0	≤20000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 9221 B	Bangkok
<b>Water Testing</b>							
Ammonia Nitrogen *	mg/L	-	0.06	<0.06	≤0.5	Based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-NH3 (B, F)	Bangkok
BOD (5 days at 20 degree C) *	mg/L	-	2.0	<2.0	≤2	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, 4500 - O (C)	Bangkok
Conductivity at 25 degree C *	micromhos/cm	-	0.5	228	No Standard	Based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2510 B	Bangkok
Cyanide as CN	mg/L	0.002	0.005	<0.005	≤0.005	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - CN (C, E)	Bangkok

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.

Approved by

*Savitree N.*

Savitree Noisangiam  
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TESTING  
No.0009

## Analysis / Test Report

Client : WHA Saraburi Industrial Land Co., Ltd.

111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140

P/O : 54250024

Project Name : Monitoring

Project Location : WHA SIL

Lot ID: 2520898

Date Received : Mar 05, 2025

Date Reported : Mar 14, 2025

Report Number : 3248004-1

Page 2 of 9

Sample Number	2520898-1						
Sampled Date	Mar 05, 2025 1:20 PM						
Sample Description	Surface water						
Location	คลองระพีพัฒน์ บริเวณต้นน้ำก่อนถึงท่อผลของคลองหนองปรุ ประมาณ 500 เมตร						
Date Analysis Commenced	Mar 06, 2025						
Condition of Sample	Contained in two BOD bottles, one amber glass bottle and six plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
Dissolved Oxygen *	mg/L	-	0.1	7.2	≥4	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-O (C)	Bangkok
Nitrate as N	mg/L	0.06	0.2	0.3	≤5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4110 B	Bangkok
Oil & Grease	mg/L	-	3	<3	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Bangkok
pH at 25 degree C		-	-	8.1	5.0-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Temperature *	Degree C	-	-	30.9	n	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Bangkok
Total Dissolved solids Dried at 180 degree C *	mg/L	-	5	117	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Bangkok
Total Suspended Solids Dried at 103-105 degree C *	mg/L	-	5	55	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

**Guideline :** Notification of the National Environmental Board, No. 8, B.E.2537 issued under the Enhancement and Conservation of National Environmental Quality Act. B.E.2535, published in the Royal Government Gazette, Vol. 111, Part 16, Dated February 24, B.E. 2537 (Class 3)

n : Change from Natural condition not more than 3 degree C

n : Not Change from natural condition

**Sampling By :** Teerawat Puangsuk

Remark :

- LOD : Limit of Detection

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

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

Approved by

*Savitree N.*

Savitree Noisangiam  
Manager

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## Analysis / Test Report

Client : WHA Saraburi Industrial Land Co., Ltd.

111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140

P/O : 54250024

Project Name : Monitoring

Project Location : WHA SIL



TESTING  
No.0009

Lot ID: 2520898

Date Received : Mar 05, 2025

Date Reported : Mar 14, 2025

Report Number : 3248004-1

Page 3 of 9

- 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



## Analysis / Test Report

Client : WHA Saraburi Industrial Land Co., Ltd.

111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140

P/O : 54250024

Project Name : Monitoring

Project Location : WHA SIL



TESTING  
No.0009

Lot ID: 2520898

Date Received : Mar 05, 2025

Date Reported : Mar 14, 2025

Report Number : 3248004-1

Page 4 of 9

Sample Number 2520898-2  
Sampled Date Mar 05, 2025 1:40 PM  
Sample Description Surface water  
Location คลองหนอง บริเวณต้นน้ำก่อนถึงจุดระบายน้ำทิ้ง ประมาณ 500 เมตร  
Date Analysis Commenced Mar 06, 2025  
Condition of Sample Contained in two BOD bottles, one amber glass bottle and six plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Metals Testing</b>							
Hexavalent Chromium	mg/L	0.003	0.01	Not Detected	≤0.05	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3500-Cr B	Bangkok
Lead	mg/L	0.0003	0.0005	Not Detected	≤0.05	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B, 3030 F	Bangkok
<b>Microbiological Testing</b>							
Total Coliform	MPN/100mL	-	-	220.0	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 9221 B	Bangkok
<b>Water Testing</b>							
Ammonia Nitrogen *	mg/L	-	0.06	<0.06	≤0.5	Based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-NH3 (B, F)	Bangkok
BOD (5 days at 20 degree C) *	mg/L	-	2.0	<2.0	≤4	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, 4500 - O (C)	Bangkok
Conductivity at 25 degree C *	micromhos/cm	-	0.5	902	No Standard	Based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2510 B	Bangkok
Cyanide as CN	mg/L	0.002	0.005	<0.005	0.005	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - CN (C, E)	Bangkok

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.

Approved by

*Sawitree N.*

Sawitree Noisangiam  
Manager

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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.

Approved by

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TESTING  
No.0009

## Analysis / Test Report

Client : WHA Saraburi Industrial Land Co., Ltd.

111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140

P/O : 54250024

Project Name : Monitoring

Project Location : WHA SIL

Lot ID: 2520898

Date Received : Mar 05, 2025

Date Reported : Mar 14, 2025

Report Number : 3248004-1

Page 5 of 9

Sample Number	2520898-2						
Sampled Date	Mar 05, 2025 1:40 PM						
Sample Description	Surface water						
Location	คลองหนอง บริเวณต้นน้ำก่อนถึงจุดระบายน้ำทิ้ง ประมาณ 500 เมตร						
Date Analysis Commenced	Mar 06, 2025						
Condition of Sample	Contained in two BOD bottles, one amber glass bottle and six plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
Dissolved Oxygen *	mg/L	-	0.1	7.5	≥2	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-O (C)	Bangkok
Nitrate as N	mg/L	0.06	0.2	1.0	≤5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4110 B	Bangkok
Oil & Grease	mg/L	-	3	<3	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Bangkok
pH at 25 degree C		-	-	7.8	5.0-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Temperature *	Degree C	-	-	30.6	n'	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Bangkok
Total Dissolved solids Dried at 180 degree C *	mg/L	-	5	541	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Bangkok
Total Suspended Solids Dried at 103-105 degree C *	mg/L	-	5	6	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

**Guideline :** Notification of the National Environmental Board, No. 8, B.E.2537 issued under the Enhancement and Conservation of National Environmental Quality Act, B.E.2535, published in the Royal Government Gazette, Vol. 111, Part 16, Dated February 24, B.E. 2537 (Class 4)

n': Change from Natural condition not more than 3 degree C

**Sampling By :** Teerawat Puangsuk

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.

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Approved by

*Savitree N.*

Savitree Noisangiam  
Manager

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TESTING  
No.0009

## Analysis / Test Report

Client : WHA Saraburi Industrial Land Co., Ltd.

111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140

P/O : 54250024

Project Name : Monitoring

Project Location : WHA SIL

Lot ID: 2520898

Date Received : Mar 05, 2025

Date Reported : Mar 14, 2025

Report Number : 3248004-1

Page 6 of 9

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

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TESTING  
No.0009

## Analysis / Test Report

Client : WHA Saraburi Industrial Land Co., Ltd.

111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140

P/O : 54250024

Project Name : Monitoring

Project Location : WHA SIL

Lot ID: 2520898

Date Received : Mar 05, 2025

Date Reported : Mar 14, 2025

Report Number : 3248004-1

Page 7 of 9

Sample Number	2520898-3						
Sampled Date	Mar 05, 2025 1:55 PM						
Sample Description	Surface water						
Location	คลองหนอง พายน้ำจากจุดระบายน้ำทิ้งลงมา ประมาณ 500 เมตร						
Date Analysis Commenced	Mar 06, 2025						
Condition of Sample	Contained in two BOD bottles, one amber glass bottle and six plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Metals Testing</b>							
Hexavalent Chromium	mg/L	0.003	0.01	Not Detected	≤0.05	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3500-Cr B	Bangkok
Lead	mg/L	0.0003	0.0005	Not Detected	≤0.05	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B, 3030 F	Bangkok
<b>Microbiological Testing</b>							
Total Coliform	MPN/100mL	-	-	330.0	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 9221 B	Bangkok
<b>Water Testing</b>							
Ammonia Nitrogen *	mg/L	-	0.06	<0.06	≤0.5	Based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-NH3 (B, F)	Bangkok
BOD (5 days at 20 degree C) *	mg/L	-	2.0	<2.0	≤4	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, 4500 - O (C)	Bangkok
Conductivity at 25 degree C *	micromhos/cm	-	0.5	312	No Standard	Based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2510 B	Bangkok
Cyanide as CN	mg/L	0.002	0.005	<0.005	0.005	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - CN (C, E)	Bangkok

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Approved by

*Savitree N.*

Savitree Noisangiam  
Manager

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TESTING  
No.0009

## Analysis / Test Report

Client : WHA Saraburi Industrial Land Co., Ltd.

111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140

P/O : 54250024

Project Name : Monitoring

Project Location : WHA SIL

Lot ID: 2520898

Date Received : Mar 05, 2025

Date Reported : Mar 14, 2025

Report Number : 3248004-1

Page 8 of 9

Sample Number	2520898-3						
Sampled Date	Mar 05, 2025 1:55 PM						
Sample Description	Surface water						
Location	คลองหนอง พายน้ำจากจุดระบายน้ำทิ้งลงมา ประมาณ 500 เมตร						
Date Analysis Commenced	Mar 06, 2025						
Condition of Sample	Contained in two BOD bottles, one amber glass bottle and six plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
Dissolved Oxygen *	mg/L	-	0.1	9.6	≥2	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-O (C)	Bangkok
Nitrate as N	mg/L	0.06	0.2	Not Detected	≤5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4110 B	Bangkok
Oil & Grease	mg/L	-	3	<3	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Bangkok
pH at 25 degree C		-	-	8.0	5.0-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Temperature *	Degree C	-	-	30.8	n'	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Bangkok
Total Dissolved solids Dried at 180 degree C *	mg/L	-	5	167	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Bangkok
Total Suspended Solids Dried at 103-105 degree C *	mg/L	-	5	13	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

**Guideline :** Notification of the National Environmental Board, No. 8, B.E.2537 issued under the Enhancement and Conservation of National Environmental Quality Act. B.E.2535, published in the Royal Government Gazette, Vol. 111, Part 16, Dated February 24, B.E. 2537 (Class 4)

n' : Change from Natural condition not more than 3 degree C

**Sampling By :** Teerawat Puangsuk

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.

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Approved by

*Savitree N.*

Savitree Noisangiam  
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## Analysis / Test Report

Client : WHA Saraburi Industrial Land Co., Ltd.  
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140  
P/O : 54250024  
Project Name : Monitoring  
Project Location : WHA SIL



TESTING  
No.0009

Lot ID: 2520898  
Date Received : Mar 05, 2025  
Date Reported : Mar 14, 2025  
Report Number : 3248004-1

Page 9 of 9

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

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## Analysis / Test Report

Client : WHA Saraburi Industrial Land Co., Ltd.  
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140  
P/O : 54250024  
Project Name : Monitoring  
Project Location : WHA SIL



TESTING  
No.0009

Lot ID: 2549524  
Date Received : Jun 04, 2025  
Date Reported : Jun 13, 2025  
Report Number : 3315892-1

Page 1 of 9

Sample Number 2549524-1  
Sampled Date Jun 04, 2025 4:05 PM  
Sample Description Surface water  
Location คลองระพีพัฒน์ บริเวณต้นน้ำก่อนถึงท่อลอดของคลองหลวง ประมาณ 500 เมตร  
Date Analysis Commenced Jun 05, 2025  
Condition of Sample Contained in two BOD bottles, two glass vials, six plastic bottles and one amber glass bottle, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Metals Testing</b>							
Arsenic	mg/L	0.0003	0.0005	0.004	≤0.01	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Cadmium	mg/L	0.0003	0.0005	Not Detected	≤0.005	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Copper	mg/L	0.0003	0.0005	0.004	≤0.10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Hexavalent Chromium	mg/L	0.003	0.01	Not Detected	≤0.05	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3500-Cr B	Bangkok
Lead	mg/L	0.0003	0.0005	0.003	≤0.05	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Manganese	mg/L	0.0003	0.0005	0.17	≤1	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Mercury	mg/L	0.0001	0.0005	Not Detected	≤0.002	In-house method : STM 05-007 based on United States Environmental Protection Agency, 2002, EPA Method 1631, Revision E	Bangkok
Nickel	mg/L	0.0003	0.0005	0.003	≤0.10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok

Approved by

*Siriluk P.*

Siriluk Bunnak  
Section Head

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## Analysis / Test Report

Client : WHA Saraburi Industrial Land Co., Ltd.  
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140  
P/O : 54250024  
Project Name : Monitoring  
Project Location : WHA SIL



TESTING  
No.0009  
Lot ID: 2549524  
Date Received : Jun 04, 2025  
Date Reported : Jun 13, 2025  
Report Number : 3315892-1

Page 2 of 9

Sample Number 2549524-1  
Sampled Date Jun 04, 2025 4:05 PM  
Sample Description Surface water  
Location คลองระพีพัฒน์ บริเวณต้นน้ำก่อนถึงท่อผลของคลองหนองปรุ ประมาณ 500 เมตร  
Date Analysis Commenced Jun 05, 2025  
Condition of Sample Contained in two BOD bottles, two glass vials, six plastic bottles and one amber glass bottle, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Metals Testing</b>							
Zinc	mg/L	0.003	0.005	0.007	≤1	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B, 3030 F	Bangkok
<b>Microbiological Testing</b>							
Total Coliform	MPN/100mL	-	-	2400.0	≤20000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 9221 B	Bangkok
<b>Water Testing</b>							
Ammonia Nitrogen *	mg/L	-	0.06	<0.06	≤0.5	Based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-NH3 (B, F)	Bangkok
BOD (5 days at 20 degree C) *	mg/L	-	2.0	<2.0	≤4	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, 4500 - O (C)	Bangkok
Conductivity at 25 degree C *	micromhos/cm	-	0.5	267	No Standard	Based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2510 B	Bangkok
Cyanide as CN	mg/L	0.002	0.005	Not Detected	0.005	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - CN (C, E)	Bangkok
Dissolved Oxygen *	mg/L	-	0.1	6.0	≥2	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-O (C)	Bangkok

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Siriluk Bunnak  
Section Head

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## Analysis / Test Report

Client : WHA Saraburi Industrial Land Co., Ltd.  
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140  
P/O : 54250024  
Project Name : Monitoring  
Project Location : WHA SIL



TESTING  
No.0009  
Lot ID: 2549524  
Date Received : Jun 04, 2025  
Date Reported : Jun 13, 2025  
Report Number : 3315892-1

Page 3 of 9

Sample Number 2549524-1  
Sampled Date Jun 04, 2025 4:05 PM  
Sample Description Surface water  
Location คลองระพีพัฒน์ บริเวณต้นน้ำก่อนถึงท่อผลของคลองหนองปรุ ประมาณ 500 เมตร  
Date Analysis Commenced Jun 05, 2025  
Condition of Sample Contained in two BOD bottles, two glass vials, six plastic bottles and one amber glass bottle, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
Nitrate as N	mg/L	0.06	0.2	0.4	≤5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4110 B	Bangkok
Oil & Grease	mg/L	-	3	<3	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Bangkok
pH at 25 degree C		-	-	7.9	5.0-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Temperature *	Degree C	-	-	30.2	n'	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Bangkok
Total Dissolved solids Dried at 180 degree C *	mg/L	-	5	164	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Bangkok
Total Suspended Solids Dried at 103-105 degree C *	mg/L	-	5	104	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

**Guideline :** Notification of the National Environmental Board, No. 8, B.E.2537 issued under the Enhancement and Conservation of National Environmental Quality Act. B.E.2535, published in the Royal Government Gazette, Vol. 111, Part 16, Dated February 24, B.E. 2537 (Class 4)

n': Change from Natural condition not more than 3 degree C

**Sampling By :** Teerawat Puangsuik

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.
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## Analysis / Test Report

Client : WHA Saraburi Industrial Land Co., Ltd.  
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140  
P/O : 54250024  
Project Name : Monitoring  
Project Location : WHA SIL



TESTING  
No.0009  
Lot ID: 2549524  
Date Received : Jun 04, 2025  
Date Reported : Jun 13, 2025  
Report Number : 3315892-1

Page 4 of 9

Sample Number 2549524-2  
Sampled Date Jun 04, 2025 4:45 PM  
Sample Description Surface water  
Location คลองหนองวัง บริเวณต้นน้ำก่อนถึงจุดระบายน้ำทิ้ง ประมาณ 500 เมตร  
Date Analysis Commenced Jun 05, 2025  
Condition of Sample Contained in two BOD bottles, two glass vials, six plastic bottles and one amber glass bottle, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Metals Testing</b>							
Arsenic	mg/L	0.0003	0.0005	0.002	≤0.01	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Cadmium	mg/L	0.0003	0.0005	Not Detected	≤0.005	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Copper	mg/L	0.0003	0.0005	0.001	≤0.1	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Hexavalent Chromium	mg/L	0.003	0.01	Not Detected	≤0.05	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3500-Cr B	Bangkok
Lead	mg/L	0.0003	0.0005	0.0005	≤0.05	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Manganese	mg/L	0.0003	0.0005	0.74	≤1	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Mercury	mg/L	0.0001	0.0005	Not Detected	≤0.002	In-house method : STM 05-007 based on United States Environmental Protection Agency, 2002, EPA Method 1631, Revision E	Bangkok
Nickel	mg/L	0.0003	0.0005	0.001	≤0.1	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok

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Section Head

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## Analysis / Test Report

Client : WHA Saraburi Industrial Land Co., Ltd.  
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140  
P/O : 54250024  
Project Name : Monitoring  
Project Location : WHA SIL



TESTING  
No.0009  
Lot ID: 2549524  
Date Received : Jun 04, 2025  
Date Reported : Jun 13, 2025  
Report Number : 3315892-1

Page 5 of 9

Sample Number 2549524-2  
Sampled Date Jun 04, 2025 4:45 PM  
Sample Description Surface water  
Location คลองหนองวัง บริเวณต้นน้ำก่อนถึงจุดระบายน้ำทิ้ง ประมาณ 500 เมตร  
Date Analysis Commenced Jun 05, 2025  
Condition of Sample Contained in two BOD bottles, two glass vials, six plastic bottles and one amber glass bottle, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Metals Testing</b>							
Zinc	mg/L	0.003	0.005	0.005	≤1	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
<b>Microbiological Testing</b>							
Total Coliform	MPN/100mL	-	-	1100.0	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 9221 B	Bangkok
<b>Water Testing</b>							
Ammonia Nitrogen *	mg/L	-	0.06	<0.06	≤0.5	Based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-NH3 (B, F)	Bangkok
BOD (5 days at 20 degree C) *	mg/L	-	2.0	2.4	≤4	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, 4500 - O (C)	Bangkok
Conductivity at 25 degree C *	micromhos/cm	-	0.5	439	No Standard	Based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2510 B	Bangkok
Cyanide as CN	mg/L	0.002	0.005	<0.005	0.005	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - CN (C, E)	Bangkok
Dissolved Oxygen *	mg/L	-	0.1	3.2	≥2	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-O (C)	Bangkok

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Approved by

Siriluk P.

Siriluk Bunnak  
Section Head

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## Analysis / Test Report

Client : WHA Saraburi Industrial Land Co., Ltd.  
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140  
P/O : 54250024  
Project Name : Monitoring  
Project Location : WHA SIL



TESTING  
No.0009  
Lot ID: 2549524  
Date Received : Jun 04, 2025  
Date Reported : Jun 13, 2025  
Report Number : 3315892-1

Page 6 of 9

Sample Number	2549524-2						
Sampled Date	Jun 04, 2025 4:45 PM						
Sample Description	Surface water						
Location	คลองหนองขี้ บริเวณต้นน้ำก่อนถึงจุดระบายน้ำทิ้ง ประมาณ 500 เมตร						
Date Analysis Commenced	Jun 05, 2025						
Condition of Sample	Contained in two BOD bottles, two glass vials, six plastic bottles and one amber glass bottle, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Nitrate as N	mg/L	0.06	0.2	<0.2	≤5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4110 B	Bangkok
Oil & Grease	mg/L	-	3	<3	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Bangkok
pH at 25 degree C		-	-	7.7	5.0-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Temperature *	Degree C	-	-	30.8	n'	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Bangkok
Total Dissolved solids Dried at 180 degree C *	mg/L	-	5	266	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Bangkok
Total Suspended Solids Dried at 103-105 degree C *	mg/L	-	5	17	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

**Guideline :** Notification of the National Environmental Board, No. 8, B.E.2537 issued under the Enhancement and Conservation of National Environmental Quality Act. B.E.2535, published in the Royal Government Gazette, Vol. 111, Part 16, Dated February 24, B.E. 2537 (Class 4)  
n': Change from Natural condition not more than 3 degree C  
**Sampling By :** Teerawat Puangsuk

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

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## Analysis / Test Report

Client : WHA Saraburi Industrial Land Co., Ltd.  
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140  
P/O : 54250024  
Project Name : Monitoring  
Project Location : WHA SIL



TESTING  
No.0009  
Lot ID: 2549524  
Date Received : Jun 04, 2025  
Date Reported : Jun 13, 2025  
Report Number : 3315892-1

Page 7 of 9

Sample Number	2549524-3						
Sampled Date	Jun 04, 2025 4:25 PM						
Sample Description	Surface water						
Location	คลองหนองขี้ หนองน้ำจากจุดระบายน้ำทิ้งลงมา ประมาณ 500 เมตร						
Date Analysis Commenced	Jun 05, 2025						
Condition of Sample	Contained in two BOD bottles, two glass vials, six plastic bottles and one amber glass bottle, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Arsenic	mg/L	0.0003	0.0005	0.002	≤0.01	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Cadmium	mg/L	0.0003	0.0005	Not Detected	≤0.005	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Copper	mg/L	0.0003	0.0005	0.0010	≤0.1	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Hexavalent Chromium	mg/L	0.003	0.01	Not Detected	≤0.05	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3500-Cr B	Bangkok
Lead	mg/L	0.0003	0.0005	0.0008	≤0.05	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Manganese	mg/L	0.0003	0.0005	0.95	≤1	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Mercury	mg/L	0.0001	0.0005	Not Detected	≤0.002	In-house method : STM 05-007 based on United States Environmental Protection Agency, 2002, EPA Method 1631, Revision E	Bangkok
Nickel	mg/L	0.0003	0.0005	0.001	≤0.1	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok

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Section Head

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## Analysis / Test Report

Client : WHA Saraburi Industrial Land Co., Ltd.  
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140  
P/O : 54250024  
Project Name : Monitoring  
Project Location : WHA SIL



TESTING  
No.0009  
Lot ID: 2549524  
Date Received : Jun 04, 2025  
Date Reported : Jun 13, 2025  
Report Number : 3315892-1

Page 8 of 9

Sample Number	2549524-3						
Sampled Date	Jun 04, 2025 4:25 PM						
Sample Description	Surface water						
Location	คลองหนองหูล้ง ฝายน้ำจากจุดระบายน้ำทั้งลงมา ประมาณ 500 เมตร						
Date Analysis Commenced	Jun 05, 2025						
Condition of Sample	Contained in two BOD bottles, two glass vials, six plastic bottles and one amber glass bottle, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Metals Testing</b>							
Zinc	mg/L	0.003	0.005	<0.005	≤1	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B, 3030 F	Bangkok
<b>Microbiological Testing</b>							
Total Coliform	MPN/100mL	-	-	790.0	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 9221 B	Bangkok
<b>Water Testing</b>							
Ammonia Nitrogen *	mg/L	-	0.06	<0.06	≤0.5	Based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-NH3 (B, F)	Bangkok
BOD (5 days at 20 degree C) *	mg/L	-	2.0	2.5	≤4	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, 4500 - O (C)	Bangkok
Conductivity at 25 degree C *	micromhos/cm	-	0.5	464	No Standard	Based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2510 B	Bangkok
Cyanide as CN	mg/L	0.002	0.005	Not Detected	0.005	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - CN (C, E)	Bangkok
Dissolved Oxygen *	mg/L	-	0.1	2.6	≥2	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-O (C)	Bangkok

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## Analysis / Test Report

Client : WHA Saraburi Industrial Land Co., Ltd.  
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140  
P/O : 54250024  
Project Name : Monitoring  
Project Location : WHA SIL



TESTING  
No.0009  
Lot ID: 2549524  
Date Received : Jun 04, 2025  
Date Reported : Jun 13, 2025  
Report Number : 3315892-1

Page 9 of 9

Sample Number	2549524-3						
Sampled Date	Jun 04, 2025 4:25 PM						
Sample Description	Surface water						
Location	คลองหนองหูล้ง ฝายน้ำจากจุดระบายน้ำทั้งลงมา ประมาณ 500 เมตร						
Date Analysis Commenced	Jun 05, 2025						
Condition of Sample	Contained in two BOD bottles, two glass vials, six plastic bottles and one amber glass bottle, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
Nitrate as N	mg/L	0.06	0.2	0.2	≤5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4110 B	Bangkok
Oil & Grease	mg/L	-	3	<3	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Bangkok
pH at 25 degree C		-	-	7.6	5.0-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Temperature *	Degree C	-	-	29.8	n'	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Bangkok
Total Dissolved solids Dried at 180 degree C *	mg/L	-	5	285	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Bangkok
Total Suspended Solids Dried at 103-105 degree C *	mg/L	-	5	12	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

**Guideline :** Notification of the National Environmental Board, No. 8, B.E.2537 issued under the Enhancement and Conservation of National Environmental Quality Act. B.E.2535, published in the Royal Government Gazette, Vol. 111, Part 16, Dated February 24, B.E. 2537 (Class 4)

n': Change from Natural condition not more than 3 degree C

**Sampling By :** Teerawat Puangsuik

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

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## Analysis / Test Report

**Client :** WHA Saraburi Industrial Land Co., Ltd.  
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140  
**P/O :** 54250024  
**Project Name :** Monitoring  
**Project Location :** WHA SIL

**Lot ID: 2530635**  
Date Received : Apr 02, 2025  
Date Reported : Apr 10, 2025  
Report Number : 3271319-1

Page 1 of 6

<b>Sample Number</b>	2530635-1						
<b>Sampled Date</b>	Apr 02, 2025 10:05 AM						
<b>Sample Description</b>	Soil (Dry Basis)						
<b>Location</b>	คลองหนองจร ดินน้ำเหนือจุดระบายน้ำทิ้งจากโครงการ ประมาณ 500 เมตร						
<b>Date Analysis Commenced</b>	Apr 03, 2025						
<b>Condition of Sample</b>	Contained in one plastic bag and one glass bottle, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline (1)	Guideline (2)	Method
<b>Metals Testing</b>							
Arsenic	mg/kg	-	0.50	1.58	≤10	≤33	United States Environmental Protection Agency, EPA Method 3050 B and 6010 D
Cadmium	mg/kg	-	0.50	<0.50	≤1	≤5	United States Environmental Protection Agency, EPA Method 3050 B and 6010 D
Copper	mg/kg	-	1.00	33.0	≤31.5	≤150	United States Environmental Protection Agency, EPA Method 3050 B and 6010 D
Hexavalent Chromium	mg/kg	-	0.25	<0.25	No Standard	No Standard	United States Environmental Protection Agency, EPA Method 3060 A and 7196 A
Lead	mg/kg	-	1.00	16.3	≤36	≤130	United States Environmental Protection Agency, EPA Method 3050 B and 6010 D
Manganese	mg/kg	-	1.00	865	No Standard	No Standard	United States Environmental Protection Agency, EPA Method 3050 B and 6010 D
Mercury	mg/kg	-	0.10	<0.10	≤0.2	≤1	United States Environmental Protection Agency, EPA Method 7473
Nickel	mg/kg	-	1.00	16.0	≤23	≤50	United States Environmental Protection Agency, EPA Method 3050 B and 6010 D
Selenium	mg/kg	-	0.50	<0.50	No Standard	No Standard	United States Environmental Protection Agency, EPA Method 3050 B and 6010 D
Zinc	mg/kg	-	1.00	41.1	≤120	≤460	United States Environmental Protection Agency, EPA Method 3050 B and 6010 D
<b>Physical Parameters</b>							
Moisture	%	-	0.1	34.6	No Standard	No Standard	In-house method based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 G

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Approved by

*Sawitree N.*

Sawitree Noisangiam  
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## Analysis / Test Report

**Client :** WHA Saraburi Industrial Land Co., Ltd.  
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140  
**P/O :** 54250024  
**Project Name :** Monitoring  
**Project Location :** WHA SIL

**Lot ID: 2530635**  
Date Received : Apr 02, 2025  
Date Reported : Apr 10, 2025  
Report Number : 3271319-1

Page 2 of 6

**Guideline :**  
**Guideline :** (1) Notification of The National Environmental Board B.E.2565, for protect benthic animals  
(2) Notification of The National Environmental Board B.E.2565, Annex1  
**Note :** Analysis Results expressed on dry basis.  
**Sampling By :** Teerawat Puangsuk  
**Remark :**  
- LOD : Limit of Detection  
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)

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## Analysis / Test Report

**Client :** WHA Saraburi Industrial Land Co., Ltd.  
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140  
**P/O :** 54250024  
**Project Name :** Monitoring  
**Project Location :** WHA SIL

**Lot ID: 2530635**  
Date Received : Apr 02, 2025  
Date Reported : Apr 10, 2025  
Report Number : 3271319-1

Page 3 of 6

<b>Sample Number</b>	2530635-2						
<b>Sampled Date</b>	Apr 02, 2025 9:50 AM						
<b>Sample Description</b>	Soil (Dry Basis)						
<b>Location</b>	คลองหนองหูก บริเวณจุดระบายน้ำทิ้งจากโครงการ						
<b>Date Analysis Commenced</b>	Apr 03, 2025						
<b>Condition of Sample</b>	Contained in one plastic bag and one glass bottle, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						
<b>Analyte</b>	<b>Unit</b>	<b>LOD</b>	<b>LOQ (LOR)</b>	<b>Result</b>	<b>Guideline (1)</b>	<b>Guideline (2)</b>	<b>Method</b>
<b>Metals Testing</b>							
Arsenic	mg/kg	-	0.50	2.80	≤10	≤33	United States Environmental Protection Agency, EPA Method 3050 B and 6010 D
Cadmium	mg/kg	-	0.50	<0.50	≤1	≤5	United States Environmental Protection Agency, EPA Method 3050 B and 6010 D
Copper	mg/kg	-	1.00	30.1	≤31.5	≤150	United States Environmental Protection Agency, EPA Method 3050 B and 6010 D
Hexavalent Chromium	mg/kg	-	0.25	<0.25	No Standard	No Standard	United States Environmental Protection Agency, EPA Method 3060 A and 7196 A
Lead	mg/kg	-	1.00	14.9	≤36	≤130	United States Environmental Protection Agency, EPA Method 3050 B and 6010 D
Manganese	mg/kg	-	1.00	102	No Standard	No Standard	United States Environmental Protection Agency, EPA Method 3050 B and 6010 D
Mercury	mg/kg	-	0.10	<0.10	≤0.2	≤1	United States Environmental Protection Agency, EPA Method 7473
Nickel	mg/kg	-	1.00	8.15	≤23	≤50	United States Environmental Protection Agency, EPA Method 3050 B and 6010 D
Selenium	mg/kg	-	0.50	<0.50	No Standard	No Standard	United States Environmental Protection Agency, EPA Method 3050 B and 6010 D
Zinc	mg/kg	-	1.00	26.5	≤120	≤460	United States Environmental Protection Agency, EPA Method 3050 B and 6010 D
<b>Physical Parameters</b>							
Moisture	%	-	0.1	38.8	No Standard	No Standard	In-house method based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 G

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*Sawitree N.*

Sawitree Noisangiam  
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## Analysis / Test Report

**Client :** WHA Saraburi Industrial Land Co., Ltd.  
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140  
**P/O :** 54250024  
**Project Name :** Monitoring  
**Project Location :** WHA SIL

**Lot ID: 2530635**  
Date Received : Apr 02, 2025  
Date Reported : Apr 10, 2025  
Report Number : 3271319-1

Page 4 of 6

**Guideline :**  
**Guideline :** (1) Notification of The National Environmental Board B.E.2565, for protect benthic animals  
(2) Notification of The National Environmental Board B.E.2565, Annex1  
**Note :** Analysis Results expressed on dry basis.  
**Sampling By :** Teerawat Puangsuk  
**Remark :**  
- LOD : Limit of Detection  
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)

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## Analysis / Test Report

**Client :** WHA Saraburi Industrial Land Co., Ltd.  
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140  
**P/O :** 54250024  
**Project Name :** Monitoring  
**Project Location :** WHA SIL

**Lot ID: 2530635**  
**Date Received :** Apr 02, 2025  
**Date Reported :** Apr 10, 2025  
**Report Number :** 3271319-1

Page 5 of 6

<b>Sample Number</b>	2530635-3						
<b>Sampled Date</b>	Apr 02, 2025 10:25 AM						
<b>Sample Description</b>	Soil (Dry Basis)						
<b>Location</b>	คลองหนองรี ทุ่งเกษตรนาทำแปลงโครงการ ประมาณ 500 เมตร						
<b>Date Analysis Commenced</b>	Apr 03, 2025						
<b>Condition of Sample</b>	Contained in one plastic bag and one glass bottle, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						
<b>Analyte</b>	<b>Unit</b>	<b>LOD</b>	<b>LOQ (LOQ)</b>	<b>Result</b>	<b>Guideline (1)</b>	<b>Guideline (2)</b>	<b>Method</b>
<b>Metals Testing</b>							
Arsenic	mg/kg	-	0.50	2.28	≤10	≤33	United States Environmental Protection Agency, EPA Method 3050 B and 6010 D
Cadmium	mg/kg	-	0.50	<0.50	≤1	≤5	United States Environmental Protection Agency, EPA Method 3050 B and 6010 D
Copper	mg/kg	-	1.00	30.8	≤31.5	≤150	United States Environmental Protection Agency, EPA Method 3050 B and 6010 D
Hexavalent Chromium	mg/kg	-	0.25	<0.25	No Standard	No Standard	United States Environmental Protection Agency, EPA Method 3060 A and 7196 A
Lead	mg/kg	-	1.00	18.1	≤36	≤130	United States Environmental Protection Agency, EPA Method 3050 B and 6010 D
Manganese	mg/kg	-	1.00	494	No Standard	No Standard	United States Environmental Protection Agency, EPA Method 3050 B and 6010 D
Mercury	mg/kg	-	0.10	<0.10	≤0.2	≤1	United States Environmental Protection Agency, EPA Method 7473
Nickel	mg/kg	-	1.00	11.8	≤23	≤50	United States Environmental Protection Agency, EPA Method 3050 B and 6010 D
Selenium	mg/kg	-	0.50	<0.50	No Standard	No Standard	United States Environmental Protection Agency, EPA Method 3050 B and 6010 D
Zinc	mg/kg	-	1.00	37.0	≤120	≤460	United States Environmental Protection Agency, EPA Method 3050 B and 6010 D
<b>Physical Parameters</b>							
Moisture	%	-	0.1	35.6	No Standard	No Standard	In-house method based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 G

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.

Approved by

*Sawitree N.*

Sawitree Noisangiam  
Manager

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## Analysis / Test Report

**Client :** WHA Saraburi Industrial Land Co., Ltd.  
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140  
**P/O :** 54250024  
**Project Name :** Monitoring  
**Project Location :** WHA SIL

**Lot ID: 2530635**  
**Date Received :** Apr 02, 2025  
**Date Reported :** Apr 10, 2025  
**Report Number :** 3271319-1

Page 6 of 6

**Guideline :**  
**Guideline :** (1) Notification of The National Environmental Board B.E.2565, for protect benthic animals  
(2) Notification of The National Environmental Board B.E.2565, Annex1  
**Note :** Analysis Results expressed on dry basis.  
**Sampling By :** Teerawat Puangsuk  
**Remark :**  
- LOD : Limit of Detection  
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)

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

Approved by

*Sawitree N.*

Sawitree Noisangiam  
Manager

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คุณภาพน้ำทิ้ง (ระบบบำบัดน้ำเสียรวมทางชีวภาพ)







# Analysis / Test Report



TESTING  
No. 0505

**Client :** WMA Utilities and Power Public Company Limited  
 113 Moo 7, Kungklung Road, Kungklung, Bangkok, Saraburi Thailand 35140

**P/O :**  
**Project Name :**  
**Project Location :** RW16 SS

**Sample Number :** 258452  
**Sampled Date :** Feb 11, 2023 1:09 PM  
**Sample Description :** Group 1 Wastewater 100 l-Pace  
**Location :** WMA SS, WPP (B) - on Siphoning Tank  
**Date Analysis Commenced :** Feb 13, 2023


**Condition of Sample :**  
**Physical Property :** Contained in two plastic bottles, sample containers comply to pre-treatment - preservation standards (APHA, USEPA)  
 Yellow, a bit of solid, solid and turbid

Analyte	Unit	LOD	LOQ	Result	Guideline / Specification	Method	Testing Location
Water Treating COD	mg/L	-	25	323	6750	Standard Methods for the Examination of Water and Wastewater, APHA, 1995 & ISO; JIS K 0102, 2001, JIS S 5020 D	Sampruk
pH at 25 degree C	-	-	-	7.5	5.5-8.0	Standard Methods for the Examination of Water and Wastewater, APHA, 1995 & ISO; JIS K 0102, 2001, JIS K 0103-1, 2004	Sampruk


**Guideline :** Standard of WMA Saraburi Industrial Land, Maximum limits for wastewater discharging to central wastewater treatment plants.  
**Remark :** Tested by Tensometer method and COD > 204 < 0.058

**Remark :**  
 1. LOD - Limit of Detection  
 2. " < " (Less than 1/10 Limit of Quantitation) 1/10 L of 1 and 2 of Reporting  
 3. Analytical method is in use and included in scope of Accreditation ISO/IEC 17025

**Technical Management**

  
 Sumrit Chaiwong  
 Scientist (3)  
 in-charge of SS-204 & 0208

**Approved by**

  
 Kanchan Jant  
 Resident General Manager  
 in-charge of SS-204 & 0208

Please note to be included in certified data, the printing on certificate is the identification of responsibility for 10 years for the use of the data.

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	 TESTING No 0009	<b>Analysis / Test Report</b>				
<b>Client:</b> WSA USMiles and Rower Public Company Limited 111 Moo 7, Nongkhalang Road, Nongkhalang, Nongkhalang, Saraburi Thailand 35180		<b>Lot ID:</b> 2506227  <b>Date Received:</b> Feb 25, 2025 <b>Date Reported:</b> Mar 03, 2025 <b>Report Number:</b> SNT-125-5				
<b>P/P 1:</b> <b>Project Name:</b> <b>Project Location:</b> WSA SL		<i>(Page 1 of 1)</i>				
<b>Sample Number:</b> ZMR27-1						
<b>Sampled Date:</b> Feb 25, 2023 09:15 AM						
<b>Sample Description:</b> Group 1 Randomizer WSA Plant						
<b>Location:</b> WSA SL - WB IN - In-Situization Tank						
<b>Date Analysis Commenced:</b> Feb 26, 2023						
<b>Condition of Sample:</b> Contained in two plastic bottles, sample containers comply to pre-treatment - preservation standards (NPAH, USEPA)						
<b>Physical Property:</b> Black, a lot of color, solid, and turbl						
Analyte	Unit	LOD (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing						
COD	mg/L	-	25	300	<750	Standard Methods for the Estimation of water and wastewater effluent, ASTM D 1212-0
pH at 25 degree C	-	-	-	7.5	5.5-9.0	Standard Methods for the Estimation of water and wastewater effluent, ASTM D 1212-0

**Guideline:** Standard of WSA Sanjunt Industrial Land, Maximum levels for wastewater discharging to central wastewater treatment plant.

**Sampling By:** Chantorn Sriboon (wastewater)-S2M-4-0249

**Notes:**

- \* LOD = Limit of Detection
- \* LOR = Lower limit of Reporting
- \* Analytical method "A" is not included in scope of Accreditation ISO/IEC 17025.
- \* Sampling is not included in scope of accreditation ISO/IEC 17025.

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<b>Technical Management</b>  <div style="text-align: center;">               Sriruk Porom              Section Head              industrial-S2M-4-0523           </div>	<b>Approved by</b>  <div style="text-align: center;">               Kach Anon              Assistant General Manager              industrial-S2M-4-0008           </div>	
--	---	--

Results may be re-evaluated or corrected, unless for pending re-evaluation, i.e., the report contains information that will affect the validity of the results.

PROJECT: SIA Phthalanulok, Kh. Phthalanulok Rd., Phrasa Phthalanulok, Krui Chan Sang, Sangkhro HONGTHAI (Thailand)    PHONE: +66 2 7202 5000    FAX: +66 2 7202 5107  
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				<b>TESTING</b> <b>NO 0009</b>				
				<b>Analysis / Test Report</b>				
<b>Client</b> : WMA (Municipal and River Public Company Limited) 111 Huo 7, Nongkhalad Road, Nongkhal, Nongkhal, Sarathai Thailand 58140		<b>Lot ID</b> : 2520147		<b>Date Received</b> : Mar 24, 2025 <b>Date Reported</b> : Mar 11, 2025 <b>Report Number</b> : 20250226-01				
<b>P/T/S</b> : <b>Project Name</b> : WMA 552		<b>Sample Number</b> : 2520147-1 <b>Sample Date</b> : Mar 04, 2025 2:20 PM <b>Sample Description</b> : Group 1 Freshwater WQ (Part) <b>Location</b> : WMA 52, WMA-IN vs Equidation Tank <b>Lab Analysis Comments</b> : MS, MS, 0253 <b>Condition of Sample</b> : Contained in one amber glass bottle, ten glass vials and eight plastic bottles, samples containers comply to pre-treatment - <b>Physical Property</b> : preservation standards (APHA, USEPA) Stack, A lot of other, add and buffer		<b>Page 1 of 2</b>				
<b>Analysis</b>		<b>Unit</b>	<b>LOQ</b> <b>(LOQ)</b>	<b>Result</b>	<b>Guideline / Specification</b>	<b>Method</b>	<b>Testing Location</b>	
<b>Acidity Testing</b>		mg/L	0.003	0.003	5.50	5.50	Standard Methods for the Examination of Water and Wastewater, APHA, 2005 to 1995, 2005 ed., 2023, para 5123.5, 5.000 F	Samguk
<b>Water Testing</b> BOD (5 days at 20 degree C)		mg/L	-	2.6	137	2500	Standard Methods for the Examination of Water and Wastewater, APHA, 2005 to 1995, 2005 ed., 2023, para 5123.5, 2.000 F	Samguk
<b>COD</b>		mg/L	-	25	303	<750	Standard Methods for the Examination of Water and Wastewater, APHA, 2005 to 1995, 2005 ed., 2023, para 5123.5, 2.000 F	Samguk
<b>Formaldehyde</b>		mg/L	0.03	0.1	Not Detected	<1	Standard analysis manual, Environmental Engineering Association of Thailand, 4th ed., 2004	Samguk
<b>pH at 35 degree C</b>		-	-	7.2	5.5-8.5	5.5-8.5	Standard Methods for the Examination of Water and Wastewater, APHA, 2005 to 1995, 2005 ed., 2023, para 5123.5, 2.000 F	Samguk
<b>Fluoride</b>		mg/L	0.0005	0.001	Not Detected	<1	Standard Methods for the Examination of Water and Wastewater, APHA, 2005 to 1995, 2005 ed., 2023, para 5123.5, 2.000 F	Samguk
<b>Sulfate</b>		mg/L	-	0.5	<0.5	<1	Standard Methods for the Examination of Water and Wastewater, APHA, 2005 to 1995, 2005 ed., 2023, para 5123.5, 2.000 F	Samguk
<b>Temperature</b>		Degree C	-	-	33.1	149	Standard Methods for the Examination of Water and Wastewater, APHA, 2005 to 1995, 2005 ed., 2023, para 5123.5, 2.000 F	Samguk
<b>Technical Management</b>		 Saruthee Nongmanit Manager InCharged : 2024-0007		<b>Approved by</b>  Korb Aue Assistant General Manager InCharged : 2024-0008				
Sample was sent to us according to order, and we analyzed in accordance with the Test Method specified in the report according to the order of the client.								
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**Confidence** - Standard of With Canada's Industrial Land, Maximum limits for wastewater discharging to central wastewater treatment plant.

**Sampling By** - Theoretical Pumping

**Notes:**

- 100% - Limit of detection
- > 0% - Lower than 100% (Limit of Quantitation) - 100% (Limit of Reporting)
- Analysts' notes: \* Items not included in scope of investigation (DQ, RCI, PPO).
- Sampling is not included in scope of investigation (DQ, RCI, PPO).

Approved by   
Sumanee Chuanakorn

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Approved by Kanakkum Anil  
Kanakkum Anil

Results given in this abstract are preliminary, unless the abstract was indicated to be so. The abstract is neither an endorsement nor a disavowal of the author's opinions or the opinions of the sponsor.

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<b>Sample Identifier</b>	<b>ZH400-19</b>						
<b>Sample Date</b>	Jan 16, 2018, 9:33 PM						
<b>Sample Description</b>	Group 1 Waterborne WPP Plant						
<b>Location</b>	MNA US - WW-09 (see Equivalency Table)						
<b>Analysis Dates / Comments</b>	On: 01/16/2018						
<b>Condition of Sample</b>	Contained in two glass bottles, ten plastic bottles and three amber glass bottles; sample contains comply to preservation.						
<b>Physical Property</b>	preservation standards: EPA, USEPA Index: A = Not tested, null = not tested						
<b>Analyte</b>	<b>Unit</b>	<b>LOD</b> <b>(ppm)</b>	<b>LOQ</b> <b>(USEP)</b>	<b>Kenich</b>	<b>Gutierrez / Speciation</b>	<b>Method</b>	<b>Fasting Location</b>
<b>Organics - Organisms Microbial</b>							
2,4-DICOT *	ug/L	0.01	0.02	Not Detected	No Standard	Standard Methods for the Examination of Water and Wastewater, EPA, USEPA, 20th ed., 2013, part 6430 p. 6412	Santiago
4,6-EEDC *	ug/L	0.01	0.02	Not Detected	No Standard	Standard Methods for the Examination of Water and Wastewater, EPA, USEPA, 20th ed., 2013, part 6430 p. 6412	Santiago
4,6-EEDC *	ug/L	0.01	0.02	Not Detected	No Standard	Standard Methods for the Examination of Water and Wastewater, EPA, USEPA, 20th ed., 2013, part 6430 p. 6412	Santiago
4,6-EEDC *	ug/L	0.01	0.02	Not Detected	No Standard	Standard Methods for the Examination of Water and Wastewater, EPA, USEPA, 20th ed., 2013, part 6430 p. 6412	Santiago
4,6-EEDC *	ug/L	0.01	0.02	Not Detected	No Standard	Standard Methods for the Examination of Water and Wastewater, EPA, USEPA, 20th ed., 2013, part 6430 p. 6412	Santiago
Aldrin *	ug/L	0.01	0.02	Not Detected	No Standard	Standard Methods for the Examination of Water and Wastewater, EPA, USEPA, 20th ed., 2013, part 6430 p. 6412	Santiago
alpha-BHC *	ug/L	0.01	0.02	Not Detected	No Standard	Standard Methods for the Examination of Water and Wastewater, EPA, USEPA, 20th ed., 2013, part 6430 p. 6412	Santiago
beta-BHC *	ug/L	0.01	0.02	Not Detected	No Standard	Standard Methods for the Examination of Water and Wastewater, EPA, USEPA, 20th ed., 2013, part 6430 p. 6412	Santiago
delta-BHC *	ug/L	0.01	0.02	Not Detected	No Standard	Standard Methods for the Examination of Water and Wastewater, EPA, USEPA, 20th ed., 2013, part 6430 p. 6412	Santiago

Approved by Leah Anne  
Korokum Aoki

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	<h2 style="margin: 0;">Analysis / Test Report</h2>					
<p><b>Client</b> : VINA-Utilities and Power Public Company Limited          1111 Rte 7, Nongkhalad Road, Nongkhalam, Nongkhal, Saraburi Thailand 35140</p> <p><b>P/O I</b> :  <b>Project Name</b> :  <b>Project Location</b> : VPHS 031</p>		<p style="text-align: right;"><b>TESTING</b>  <b>Lot ID#</b> : 2538000-1  <b>Date Received</b> : May 20, 2023  <b>Date Reported</b> : May 21, 2023  <b>Report Number</b> : 1307879-1</p> <p style="text-align: right;"><i>Page 1 of 1</i></p>				
<p><b>Sample Number</b> : 2308000-1  <b>Sampled Date</b> : May 20, 2023 1:00 PM  <b>Sample Description</b> : Group 1 Distribution WWT Effluent  <b>WHA Site</b> : WVA-WP, 16 Chomae Contact Tank  <b>Date Analysis Completed</b> : May 21, 2023  <b>Condition of Sample</b> : Contained in two plastic bottles, sample containers comply to pre-treatment - preservation standards (APHA, US EPA)  <b>Physical Property</b> : Visible, some odorous, solid and not settled</p>						
<b>Analyte</b>	<b>Unit</b>	<b>LOD</b> (LOQ / LOR)	<b>Result</b>	<b>Guideline / Specification</b>	<b>Method</b>	<b>Testing Location</b>
COD	mg/L	-	25	27	1520	Bangkok
<p>pH at 25 degree C</p> <p style="text-align: center;">-</p>						
Total Suspended Solids Crude at 103-105 degree C	mg/L	-	5	8	1520	Bangkok
<p><b>Qualifier</b> : Effluent standard for industries, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and official standard for factories and industrial park set by Notification of the Ministry of Industry dated Jan 07, 8-2-2000 (2017)</p> <p><b>Remark</b> :          1. LOD = Limit of Detection          2. LOR = Lower Limit (LOQ) Limit of Quantitation (LOQ Limit of Reporting)          3. Analytical method : As per not included in scope of Accreditation (ISO/IEC 17025)          4. Sampling to test not included in scope of accreditation (ISO/IEC 17025)</p>						
<p><b>Technical Management</b></p> <p style="text-align: center;">               Nontsomborn Somborn              Supervisor              n.somborn@als.com.th           </p>		<p><b>Approval by</b></p> <p style="text-align: center;">               Kanchana Aue              Assistant General Manager              k.aue@als.com.th +66-8-2584-0004           </p>				
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ALS logo and company information. Analysis / Test Report. Client: WWA Utilities and Power Public Company Limited. Project Name: WWA S2. Sample Date: 23/05/24. Sample Description: Group 1 Wastewater WSP Plant. Date Analysis Commenced: 23/05/24. Conditions of Sample: Contained in two glass vials, ten plastic bottles and three amber glass bottles. Physical Property: Yellow, some odour, solid and no turbidity. Analyte: COD, pH at 25 degree C, Total Suspended Solids Direct at 100-125 degree C. Results: COD 25, pH 7.7, TSS 13. Guidelines / Specification: 110-125. Method: Standard Methods for the Examination of Water and Wastewater. Testing Location: Bangkok. Technical Management: Sanyatun N. Approved by: Kanchan Aek. Report Number: 25358004-1.

ALS logo and company information. Analysis / Test Report. Client: WWA Utilities and Power Public Company Limited. Project Name: WWA S2. Sample Date: 23/05/24. Sample Description: Group 1 Wastewater WSP Plant. Date Analysis Commenced: 23/05/24. Conditions of Sample: Contained in two glass vials, ten plastic bottles and three amber glass bottles. Physical Property: Yellow, some odour, solid and no turbidity. Analyte: Ammonia, Barium, Cadmium, Copper, Hexavalent Chromium, Lead, Manganese. Results: Ammonia 0.0003, Barium 0.0003, Cadmium 0.0003, Copper 0.0003, Hexavalent Chromium 0.003, Lead 0.0003, Manganese 0.0003. Guidelines / Specification: 0.05-0.25. Method: Standard Methods for the Examination of Water and Wastewater. Testing Location: Bangkok. Technical Management: Sanyatun N. Approved by: Kanchan Aek. Report Number: 25358004-1.

ALS logo and company information. Analysis / Test Report. Client: WWA Utilities and Power Public Company Limited. Project Name: WWA S2. Sample Date: 23/05/24. Sample Description: Group 1 Wastewater WSP Plant. Date Analysis Commenced: 23/05/24. Conditions of Sample: Contained in two glass vials, ten plastic bottles and three amber glass bottles. Physical Property: Yellow, some odour, solid and no turbidity. Analyte: Nickel, Selenium, Trivalent Chromium, Zinc, Perchlorate - Organophosphorus Group, 2,4-DCE. Results: Nickel 0.0003, Selenium 0.0003, Trivalent Chromium 0.001, Zinc 0.003, Perchlorate 0.01, 2,4-DCE 0.01. Guidelines / Specification: 0.005-0.008. Method: Standard Methods for the Examination of Water and Wastewater. Testing Location: Bangkok. Technical Management: Sanyatun N. Approved by: Kanchan Aek. Report Number: 25358004-1.

ALS logo and company information. Analysis / Test Report. Client: WWA Utilities and Power Public Company Limited. Project Name: WWA S2. Sample Date: 23/05/24. Sample Description: Group 1 Wastewater WSP Plant. Date Analysis Commenced: 23/05/24. Conditions of Sample: Contained in two glass vials, ten plastic bottles and three amber glass bottles. Physical Property: Yellow, some odour, solid and no turbidity. Analyte: Perchlorate - Organophosphorus Group, 2,4-DCE, K-A-DEO, K-A-DEE, K-A-DET, ADR, alpha-BHC, beta-BHC. Results: Perchlorate 0.01, 2,4-DCE 0.01, K-A-DEO 0.01, K-A-DEE 0.01, K-A-DET 0.01, ADR 0.01, alpha-BHC 0.01, beta-BHC 0.01. Guidelines / Specification: 0.01-0.02. Method: Standard Methods for the Examination of Water and Wastewater. Testing Location: Bangkok. Technical Management: Sanyatun N. Approved by: Kanchan Aek. Report Number: 25358004-1.

ALS logo and company information. Analysis / Test Report. Client: WWA Utilities and Power Public Company Limited. Project Name: WWA S2. Sample Date: 23/05/24. Sample Description: Group 1 Wastewater WSP Plant. Date Analysis Commenced: 23/05/24. Conditions of Sample: Contained in two glass vials, ten plastic bottles and three amber glass bottles. Physical Property: Yellow, some odour, solid and no turbidity. Analyte: Chlorobenzene, beta-BHC, Dieldrin, Endosulfan, Endosulfan S, Endosulfan Q, Endosulfan R, Endosulfan S, Endosulfan Q, Endosulfan R, Endosulfan S. Results: Chlorobenzene 0.02, beta-BHC 0.01, Dieldrin 0.01, Endosulfan 0.01, Endosulfan S 0.01, Endosulfan Q 0.01, Endosulfan R 0.01. Guidelines / Specification: 0.01-0.02. Method: Standard Methods for the Examination of Water and Wastewater. Testing Location: Bangkok. Technical Management: Sanyatun N. Approved by: Kanchan Aek. Report Number: 25358004-1.

ALS logo and company information. Analysis / Test Report. Client: WWA Utilities and Power Public Company Limited. Project Name: WWA S2. Sample Date: 23/05/24. Sample Description: Group 1 Wastewater WSP Plant. Date Analysis Commenced: 23/05/24. Conditions of Sample: Contained in two glass vials, ten plastic bottles and three amber glass bottles. Physical Property: Yellow, some odour, solid and no turbidity. Analyte: Heptachlor Epoxide, Lindane (gamma-BHC), Malathion, Water Testing, COD, Color (at Original pH), Color (at pH 7.0). Results: Heptachlor Epoxide 0.01, Lindane 0.01, Malathion 0.01, COD 25, Color (at Original pH) 17, Color (at pH 7.0) 17. Guidelines / Specification: 0.01-0.02. Method: Standard Methods for the Examination of Water and Wastewater. Testing Location: Bangkok. Technical Management: Sanyatun N. Approved by: Kanchan Aek. Report Number: 25358004-1.

ALS logo and company information. Analysis / Test Report. Client: WWA Utilities and Power Public Company Limited. Project Name: WWA S2. Sample Date: 23/05/24. Sample Description: Group 1 Wastewater WSP Plant. Date Analysis Commenced: 23/05/24. Conditions of Sample: Contained in two glass vials, ten plastic bottles and three amber glass bottles. Physical Property: Yellow, some odour, solid and no turbidity. Analyte: Water Testing, Formaldehyde, Oil & Grease, pH at 25 degree C, Phenol, Residual Free Chlorine, Sulfide, Temperature. Results: Water Testing 25, Formaldehyde 0.03, Oil & Grease 3, pH 7.1, Phenol 0.0005, Residual Free Chlorine 0.1, Sulfide 0.1, Temperature 33.9. Guidelines / Specification: 110-125. Method: Standard Methods for the Examination of Water and Wastewater. Testing Location: Bangkok. Technical Management: Sanyatun N. Approved by: Kanchan Aek. Report Number: 25358004-1.

ALS logo and company information. Analysis / Test Report. Client: WWA Utilities and Power Public Company Limited. Project Name: WWA S2. Sample Date: 23/05/24. Sample Description: Group 1 Wastewater WSP Plant. Date Analysis Commenced: 23/05/24. Conditions of Sample: Contained in two glass vials, ten plastic bottles and three amber glass bottles. Physical Property: Yellow, some odour, solid and no turbidity. Analyte: Water Testing, Total Kjeldahl Nitrogen as N, Total Phosphate as P, Total Suspended Solids Direct at 100-125 degree C. Results: Water Testing 25, Total Kjeldahl Nitrogen 0.15, Total Phosphate 0.2, TSS 13. Guidelines / Specification: 0.05-0.25. Method: Standard Methods for the Examination of Water and Wastewater. Testing Location: Bangkok. Technical Management: Sanyatun N. Approved by: Kanchan Aek. Report Number: 25358004-1.

ALS logo and company information. Analysis / Test Report. Client: WWA Utilities and Power Public Company Limited. Project Name: WWA S2. Sample Date: 23/05/24. Sample Description: Group 1 Wastewater WSP Plant. Date Analysis Commenced: 23/05/24. Conditions of Sample: Contained in two glass vials, ten plastic bottles and three amber glass bottles. Physical Property: Yellow, some odour, solid and no turbidity. Analyte: Nickel, Silver, Microbiological Testing, Perchlorate - Organophosphorus Group, gamma-Chlorobenzene, Hevea Sulfonamide, Hexa. Results: Nickel 0.0003, Silver 0.0003, Microbiological Testing 1700000, Perchlorate 0.01, gamma-Chlorobenzene 0.01, Hevea Sulfonamide 0.01, Hexa 0.01. Guidelines / Specification: 0.005-0.008. Method: Standard Methods for the Examination of Water and Wastewater. Testing Location: Bangkok. Technical Management: Sanyatun N. Approved by: Kanchan Aek. Report Number: 25358004-1.



## Analysis / Test Report

TESTING

Ref: 0503

Lot ID: **2546811**

Date Received: 11 Jun 2025

Date Reported: 10 Jun 2025

Report Number: 33900510

Page 3 of 3

Client: 100A Utilities and Power Public Company Limited  
111 Bui Thi Xong Road, Ward 1, District 10, Ho Chi Minh City, Vietnam

### PROJECT

Project Name: 100A  
Project Location: 100A, 100A

Sample Number: 2546811-1

Sampled Date: Jun 17, 9:20 AM

Sample Description: Group 1: Wastewater WFO-TP

Location: 100A, 100A, 100A - in Chlorine Contact Tank

Date Analysis Completed: Jun 18, 2025

### Details of Sample

Container: in two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, 1820A)

Condition: Volatile, some odour, solid and no liquid

Analyte	Unit	LOD (U/L)	Result	Guideline / Specification	Method	Testing Location
Water Testing						
COD	mg/L	25	44	120	Standard Methods for the Examination of water and wastewater, APHA, 1820A & 5057, 2018, 10th ed. and ISO 15705	Seung
pH at 25 degree C			7.4	5.5-9.0	Standard Methods for the Examination of water and wastewater, APHA, 1820A & 5057, 2018, 10th ed. and ISO 15705	Seung
Total Suspended Solids (TSS) at 100-100 degree C	mg/L	5	8	150	Standard Methods for the Examination of water and wastewater, APHA, 1820A & 5057, 2018, 10th ed. and ISO 15705	Seung

Guideline: (Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resources and Environment and effluent standard for factories and industrial park set by Notification of the Ministry of Industry dated June 07, 81-240 (2017))

### Remark

1. LOD = Limit of Detection

2. \* (Lower than LOD and End of Quantification) (LOE End of Reporting)

3. "undetectable" = not detected in range of accreditation ISO 15705: 2015

Sampling in triplicate included in mean of accreditation ISO 15705: 2015

### Technical Management

*Nat Sorn*

(Seventeenth Sorn)

Signature 1

email: a-1234-5678-9010

### Approved by

*Kath Aik*

(Seventeenth Aik)

Signature 2

email: a-1234-5678-9010

Head Office: 100A Utilities and Power Public Company Limited, 111 Bui Thi Xong Road, Ward 1, District 10, Ho Chi Minh City, Vietnam

000001-100A Utilities and Power Public Company Limited, 111 Bui Thi Xong Road, Ward 1, District 10, Ho Chi Minh City, Vietnam (0101) - 01-2763 0000 (0101) - 01-2763 0000 (0101) - 01-2763 0000


100A Utilities and Power Public Company Limited

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# Analysis / Test Report



**Client:** WOL Industries and Power Rubber Company Limited  
 113 Km 7, Kungklaphad Road, Sangkhatao, Sangkhatao, Saraburi Thailand 35140

**P/O #:**

**Project Name:**





**Project Location:** RIMA 102

**Sample Number:** 230836-1




**Sampled Date:** Feb 04, 2023 10:30 AM

**Sample Description:** Group 5 Waterborne 300 Paint

**Location:** 1044-02, 1044-07, 1044-08, 1044-09, 1044-10, 1044-11, 1044-12, 1044-13, 1044-14, 1044-15, 1044-16, 1044-17, 1044-18, 1044-19, 1044-20, 1044-21, 1044-22, 1044-23, 1044-24, 1044-25, 1044-26, 1044-27, 1044-28, 1044-29, 1044-30, 1044-31, 1044-32, 1044-33, 1044-34, 1044-35, 1044-36, 1044-37, 1044-38, 1044-39, 1044-40, 1044-41, 1044-42, 1044-43, 1044-44, 1044-45, 1044-46, 1044-47, 1044-48, 1044-49, 1044-50, 1044-51, 1044-52, 1044-53, 1044-54, 1044-55, 1044-56, 1044-57, 1044-58, 1044-59, 1044-60, 1044-61, 1044-62, 1044-63, 1044-64, 1044-65, 1044-66, 1044-67, 1044-68, 1044-69, 1044-70, 1044-71, 1044-72, 1044-73, 1044-74, 1044-75, 1044-76, 1044-77, 1044-78, 1044-79, 1044-80, 1044-81, 1044-82, 1044-83, 1044-84, 1044-85, 1044-86, 1044-87, 1044-88, 1044-89, 1044-90, 1044-91, 1044-92, 1044-93, 1044-94, 1044-95, 1044-96, 1044-97, 1044-98, 1044-99, 1044-100, 1044-101, 1044-102, 1044-103, 1044-104, 1044-105, 1044-106, 1044-107, 1044-108, 1044-109, 1044-110, 1044-111, 1044-112, 1044-113, 1044-114, 1044-115, 1044-116, 1044-117, 1044-118, 1044-119, 1044-120, 1044-121, 1044-122, 1044-123, 1044-124, 1044-125, 1044-126, 1044-127, 1044-128, 1044-129, 1044-130, 1044-131, 1044-132, 1044-133, 1044-134, 1044-135, 1044-136, 1044-137, 1044-138, 1044-139, 1044-140, 1044-141, 1044-142, 1044-143, 1044-144, 1044-145, 1044-146, 1044-147, 1044-148, 1044-149, 1044-150, 1044-151, 1044-152, 1044-153, 1044-154, 1044-155, 1044-156, 1044-157, 1044-158, 1044-159, 1044-160, 1044-161, 1044-162, 1044-163, 1044-164, 1044-165, 1044-166, 1044-167, 1044-168, 1044-169, 1044-170, 1044-171, 1044-172, 1044-173, 1044-174, 1044-175, 1044-176, 1044-177, 1044-178, 1044-179, 1044-180, 1044-181, 1044-182, 1044-183, 1044-184, 1044-185, 1044-186, 1044-187, 1044-188, 1044-189, 1044-190, 1044-191, 1044-192, 1044-193, 1044-194, 1044-195, 1044-196, 1044-197, 1044-198, 1044-199, 1044-200, 1044-201, 1044-202, 1044-203, 1044-204, 1044-205, 1044-206, 1044-207, 1044-208, 1044-209, 1044-210, 1044-211, 1044-212, 1044-213, 1044-214, 1044-215, 1044-216, 1044-217, 1044-218, 1044-219, 1044-220, 1044-221, 1044-222, 1044-223, 1044-224, 1044-225, 1044-226, 1044-227, 1044-228, 1044-229, 1044-230, 1044-231, 1044-232, 1044-233, 1044-234, 1044-235, 1044-236, 1044-237, 1044-238, 1044-239, 1044-240, 1044-241, 1044-242, 1044-243, 1044-244, 1044-245, 1044-246, 1044-247, 1044-248, 1044-249, 1044-250, 1044-251, 1044-252, 1044-253, 1044-254, 1044-255, 1044-256, 1044-257, 1044-258, 1044-259, 1044-260, 1044-261, 1044-262, 1044-263, 1044-264, 1044-265, 1044-266, 1044-267, 1044-268, 1044-269, 1044-270, 1044-271, 1044-272, 1044-273, 1044-274, 1044-275, 1044-276, 1044-277, 1044-278, 1044-279, 1044-280, 1044-281, 1044-282, 1044-283, 1044-284, 1044-285, 1044-286, 1044-287, 1044-288, 1044-289, 1044-290, 1044-291, 1044-292, 1044-293, 1044-294, 1044-295, 1044-296, 1044-297, 1044-298, 1044-299, 1044-300, 1044-301, 1044-302, 1044-303, 1044-304, 1044-305, 1044-306, 1044-307, 1044-308, 1044-309, 1044-310, 1044-311, 1044-312, 1044-313, 1044-314, 1044-315, 1044-316, 1044-317, 1044-318, 1044-319, 1044-320, 1044-321, 1044-322, 1044-323, 1044-324, 1044-325, 1044-326, 1044-327, 1044-328, 1044-329, 1044-330, 1044-331, 1044-332, 1044-333, 1044-334, 1044-335, 1044-336, 1044-337, 1044-338, 1044-339, 1044-340, 1044-341, 1044-342, 1044-343, 1044-344, 1044-345, 1044-346, 1044-347, 1044-348, 1044-349, 1044-350, 1044-351, 1044-352, 1044-353, 1044-354, 1044-355, 1044-356, 1044-357, 1044-358, 1044-359, 1044-360, 1044-361, 1044-362, 1044-363, 1044-364, 1044-365, 1044-366, 1044-367, 1044-368, 1044-369, 1044-370, 1044-371, 1044-372, 1044-373, 1044-374, 1044-375, 1044-376, 1044-377, 1044-378, 1044-379, 1044-380, 1044-381, 1044-382, 1044-383, 1044-384, 1044-385, 1044-386, 1

	 <b>TESTING</b> No. 0008						
<b>Analysis / Test Report</b>							
<b>Client :</b> WMA Utilities and Power Public Company Limited 111 Road 7, Bangsalah Baru, Bangsalah, Nongsham, Sarawak Thailand 58146							
<b>Lot ID:</b> 2530174 <b>Date Received :</b> 14 May 2025 <b>Date Reported :</b> 14 May 2025 <b>Report Number :</b> J20404-X							
<b>P/O :</b>							
<b>Project Name :</b>							
<b>Sample Location :</b> WMS SS.							
<b>Sample Receiver :</b> 2025174-1							
<b>Sample Date :</b> 14 May 2025 2:30 PM							
<b>Sample Description :</b> Group 1 Wastewater WTP Plant							
<b>Location :</b> WMS SS - WSP #P - ya Protection Pond							
<b>Date Analysis Commenced :</b> 14 May 2025							
<b>Conditions of Sample :</b> Contained in one amber glass bottle, two glass vials and eight plastic bottles. sample containers comply to pretestment - General, some acidic, cold and ice-packed							
<b>Physical Property :</b>							
<b>Analyte</b>	<b>Unit</b>	<b>LOO</b>	<b>LOD</b>	<b>Result</b>	<b>Guideline / Specification</b>	<b>Method</b>	<b>Testing Location</b>
<b>Water Testing</b>							
Temperature *	Degree C	-	-	36.1	240	Standard Methods for the Examination of water and wastewater, APHA & ISO, 19th ed., 2023 and ISO 9145	Sarawak
Total Dissolved solids dried at 180 °C	mg/L	-	5	956	<3000	Standard Methods for the Examination of water and wastewater, APHA & ISO, 19th ed., 2023 and ISO 9145	Sarawak
Total Volatile Nitrogen as N *	mg/L	0.03	1.0	1.7	1100	Standard Methods for the Examination of water and wastewater, APHA & ISO, 19th ed., 2023 and ISO 9145	Sarawak
Total Phosphorus as P **	mg/L	0.2	0.5	<0.5	No Standard	Standard Methods for the Examination of water and wastewater, APHA & ISO, 19th ed., 2023 and ISO 9145	Sarawak
Total Suspended Solids Dried at 103-105 degree C	mg/L	5	12	150		Standard Methods for the Examination of water and wastewater, APHA & ISO, 19th ed., 2023 and ISO 9145	Sarawak
<b>Qualifier:</b> Effluent standard for factories, industrial estate and industrial park set by Institution of The Ministry of Natural Resources and Environment and effluent standard for factory and industrial park set by Notification of The Ministry of Industry dated June 10, 8.2.2002 (2017). <b>Sampling By :</b> "General Pollution Monitoring" > 0.04 < 0.002							
<b>Remark:</b> * = (Lower limit 1/10) limit of Quantitation (LOQ) limit of background Analytical precision: As per included evidence of accuracy: 95.9% (SD= 1.93) Sampling is not included in evidence of accuracy: 95.9% (SD= 1.93)							
<b>Technical Management</b>		 Sarathin Hengnam Manager Inclusionary + 304-4-0007		<b>Approved by</b>		 Kamikatsu Arai Assistant General Manager Inclusionary + 304-4-0004	
Photo taken from the site before sampling for reference. All the test results are subject to the review of the laboratory. <hr/> PROJECT NO: PHM00000101, PHM00000101-B, Khempas Phatthanabon, Chai Kasom, Bangkok 10170 TEL : 02-016-27500 FAX : 02-016-27501 E-MAIL : SLS@SLSLAB.COM URL : WWW.SLSLAB.COM							
<a href="#">Home</a> <a href="#">About Us</a> <a href="#">Services</a> <a href="#">Contact Us</a>		<a href="http://www.slsghobal.com">www.slsghobal.com</a>					



	
<h2 style="margin: 0;">Analysis / Test Report</h2>	
<b>Client:</b> WTA (Straits and Power Public Company Limited) 111 New 7, Rungtuek Road, Rungtuek, Bangkok, Sarabot Thailand 10140	<b>TESTING</b> No. 0009 <b>Lot Id: 2527219</b> Date Received : Apr 06, 2025 Date Reported : Apr 06, 2025 Report Number : 309427-2
<b>P/P :</b> <b>Project Name :</b> <b>Project Location :</b> WTA S2.	
<b>Remark:</b> 1.00 : (out of Detection) 1.47 : (Lower than 100 (g out of Quantitative)) : (OK (out of Reporting)) Analytical method : "As is not included in water of Accreditation ISO 9001, 14001." Sampling is not included in scope of accreditation ISO 9001, 14001	
<div style="display: flex; justify-content: space-between; align-items: center;"> <div style="width: 40%;"> <p style="margin: 0;">Approved by</p> <div style="border: 1px solid black; padding: 5px; margin-top: 10px; width: 100%;"> <p style="font-size: 0.8em; margin: 0;">Please sign in the provided or electronic when the issuing has been completed              by the report and the test results are not valid without the issuer's signature              and stamp.</p> </div> </div> <div style="width: 50%; text-align: right;">   <p style="margin: 0;">Sensitive N Manager</p> </div> </div>	
<div style="display: flex; justify-content: space-between; align-items: center;"> <div style="width: 30%;"> <p style="font-size: 0.8em; margin: 0;">00000001 WTA Phatthaburi 001, Phatthaburi 001, Phatthaburi Phatthaburi, Phat Thun Group, Bangkok 10174 Thailand   PHONE: +66 8 2750 9000   FAX: +66 8 2564 5700              001-1 PHATTHABURI 001-1 GROUP 01000-0001 (G) 101-101-001 LIMITED COMPANY</p> </div> <div style="width: 30%; text-align: center;"> <p style="margin: 0;"><b>www.alsglobal.com</b></p> </div> <div style="width: 30%; text-align: right;"> <p style="font-size: 0.8em; margin: 0;">© 2024 WTA, All rights reserved.</p> </div> </div>	





Lot ID: 2546813  
Date Received : Jun 04, 2025  
Date Reported : Jun 12, 2025  
Report Number : XXX004-1

Date Report  
Report Num

**Condition of Sample** Contained in two glass vials, nine plastic bottles and three amber glass bottles, sample containers comply to pretreatment preservation standards (APHA, USEPA)

Physical Property		Green, grey, white, solid and turbid						
Analyte	Unit	LOD	LOQ	Result	Specification / Qualifier	Method	Testing Location	
Water Testing								
Total Dissolved Solids (Dry at 180 degree C	mg/L	-	5	562	<3000	Standard Methods for the Examination of water and Wastewater, APHA, edition 1995, 24th ed., 2013, 2494 C	Singapore	
Total Optical Nitrogen as N <sup>3</sup>	mg/L	0.01	0.05	2.5	<100	Standard Methods for the Examination of water and Wastewater, APHA, edition 1995, 24th ed., 2013, 2494 C	Singapore	
Total Phosphorus as P <sup>4</sup>	mg/L	0.2	0.5	0.5	No Standard	Standard Methods for the Examination of water and Wastewater, APHA, edition 1995, 24th ed., 2013, 2494 C	Singapore	
Total Suspended Solids (Dry at 103-105 degree C	mg/L	-	5	20	<50	Standard Methods for the Examination of water and Wastewater, APHA, edition 1995, 24th ed., 2013, 2494 C	Singapore	

**Caveats:** Different demand for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and industrial park set by Notification of the Ministry of Industry dated June 10, 8 & 23, 2006 (23/17).

**Sampling By:** Thermal Pumping, enclosure V-1204-005

**Notes:**  
1-10 = Level of Detection  
\*10 = (Less than 10% of the Quantitation) 1.0E and 1.0E of Reporting  
analytical method is as set and included in scope of Accreditation (ISO 17025).  
Sampling is not included in scope of accreditation (ISO 17025). (1/25)

Technical Management: Santree N. Hoang  
Santree Hoang  
Manager  
01/20/2004 to 01/20/2004

Approved by: Carla A. Aoki  
Carla Aoki  
Assistant General Manager  
01/20/2004 to 01/20/2004

Results apply to the scenario in which the policy pay conditions in the 1990s were not as generous as they had been in the 1980s.

20191111 104 Phatthanasak W, Phatthanasak W, Khawee Phatthanasak, Chai Joon (seong, Bangkok 10150 Thailand) | PLoS | 14(6): e 0217600 | 1-11 | 10.1371/journal.pone.0217600

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Lot ID: 2546814  
Date Received : Jun 10, 2025  
Date Reported : Jun 13, 2025  
Report Number : 3300051-1

Order Report  
Report Num

<b>Condition of Sample</b>	Contained in two plastic bottles, sample containers comply to post-treatment - preservation standards (APHA, USEPA)
----------------------------	---

Physical Property		Isotonic	Normal saline	Saline and water				
Analyte	Unit	Ward	LOD	LOQ	Result	Guideline / Specification	Method	Tissue Location
<b>Water Testing</b>								
pH (in dist.) *	mEq/L	-	25	<25	0.120	Standard Methods for the Examination of Water and Wastewater (APHA, edited & 1997, 1998 ed., 2002, part 1620-0)	Berglund	
Total Suspended Solids (at 103-105 degree C)	mEq/L	-	8	18	5.5-0.0	Standard Methods for the Examination of Water and Wastewater (APHA, edited & 1997, 1998 ed., 2002, part 1600-0 + 1610)	Berglund	

**Guideline:** Effluent discharges from factories, industrial wastes and industrial park set by notification of the Ministry of Natural Resources and Environment are different because of factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2550 (2007).

**Licensing By :** Thailand Pollution Control Act - P.O.A. 2550 (2007)

**Approved :**

- \_\_\_\_\_  
1. Chief of Institute
- \_\_\_\_\_  
2. Lower than 10% level of Quantitation (LOQ) Limit of Reporting
- \_\_\_\_\_  
Notebook number \* is not included in scope of accreditation ISO/IEC 17025.
- \_\_\_\_\_  
Sampling and testing in scope of accreditation ISO/IEC 17025.

11.5.1. K...

Technical Management

*Nate Smith*

Nathanael Smith  
Specialist 2

Approved by

*Kathleen Auld*

Kathleen Auld  
Assistant General Manager  
Administrative

Resale price in this contract is provided under the following conditions: i.e., Transport shall remain open cargo in full until for the entire period of the delivery.

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 NIGHT SOLUTIONS NIGHT PARTNER





ภาคผนวก ค-6


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คุณภาพน้ำทิ้ง (โรงงานอุตสาหกรรม)






								
					ANALYSIS / Test Report		TESTING Lot No: 00-000	
<b>Client :</b> WWA Industrial and Power Public Company Limited					113 Moo 7, Nongkhaldee Road, Nongkhalae, Sangkhuri, Songkhla Thailand 90343		<b>Lot ID:</b> 24141554	
<b>P/O # :</b>							<b>Date Received :</b> Jan 09, 2025	
<b>Project Name :</b> Factory / Municipality							<b>Date Required :</b> Jan 16, 2025	
<b>Project Location :</b> (M/S) S.S.							<b>Report Number :</b> 210097-0	
<b>Sample Number</b> 24141554-1					Page 1 of 2			
<b>Sampled Date</b> Jan 06, 2025 @ 4:46 AM								
<b>Sample Description</b> Group 2 Wastewater W9-CF								
<b>Contract ID#</b> WIL-2023-2557					<b>Plot ID</b> B0		<b>Site</b> Gulf SF WQ-Ch LBR	
<b>Data Analysis Commenced</b> Jan 10, 2025								
<b>Description of Sample</b> (APHA/USEPA) Combined or one amber glass bottle and four plastic bottles sample containers comply to pre-treatment - preservation standards (volume, turbidity, storage used and lot tested)								
<b>Physical Property</b>								
Analysis	Unit	LOD	LOQ	Result	Guideline / Spec. Fraction	Method	Testing Location	
<b>Nitrate Testing</b> Nitrated Chromium	mg/L	0.002	0.01	Not Detected	<0.25	Standard Methods for the Examination of water and wastewater. APHA, ASTM & EPA, 2005 ed., 2023, part C121 & part E101 - D-2	Sangkhuri	
<b>Water Testing</b> BOD (5 days at 20 degree C)	mg/L	-	2.6	<2.5	5000	Standard Methods for the Examination of water and wastewater. APHA, ASTM & EPA, 2005 ed., 2023, part C121 & part E101 - D-2	Sangkhuri	
COD	mg/L	-	25	30	1750	Standard Methods for the Examination of water and wastewater. APHA, ASTM & EPA, 2005 ed., 2023, part C121 & part E101 - D-2	Sangkhuri	
Oil & Grease	mg/L	-	3	<+3	110	Standard Methods for the Examination of water and wastewater. APHA, ASTM & EPA, 2005 ed., 2023, part C121 & part E101 - D-2	Sangkhuri	
pH (as obs) *	-	-	-	8.0	5.5-9.0	Standard Methods for the Examination of water and wastewater. APHA, ASTM & EPA, 2005 ed., 2023, part C121 & part E101 - D-2	Sangkhuri	
Temperature **	Degree C	-	-	26.4	14-5	Standard Methods for the Examination of water and wastewater. APHA, ASTM & EPA, 2005 ed., 2023, part C121 & part E101 - D-2	Sangkhuri	
Total Dissolved solids dried at 180 Degree C	mg/L	-	5	1260	<3000	Standard Methods for the Examination of water and wastewater. APHA, ASTM & EPA, 2005 ed., 2023, part C121 & part E101 - D-2	Sangkhuri	
Total Suspended Solids dried at 102-103 Degree C	mg/L	-	5	18	<1000	Standard Methods for the Examination of water and wastewater. APHA, ASTM & EPA, 2005 ed., 2023, part C121 & part E101 - D-2	Sangkhuri	
<b>Guideline :</b> Standard of WWA Sangkhuri Industrial Land. Maximum levels for wastewater discharging to central wastewater treatment plant.								
<b>Technical Management</b>   Sawadee Montaram Manager emulated@w204-w0007					<b>Approved by</b>   Kanchan Veer Assistant General Manager emulated@w204-w0004			
<p>* Total dissolved solids (TDS) is the sum of all dissolved substances in water, expressed as milligrams per liter (mg/L). It includes minerals, salts, and organic matter.</p> <p>** Temperature is measured in degrees Celsius (°C).</p>								


			
<h2>Analysis / Test Report</h2>			
<b>Client</b> : SIDA (SIDRA and Power Public Company Limited) 111 Moo 7, Bangkokmai Road, Bangkokmai, Nongkhai, Saraburi Thailand 32140 <b>P/O #</b> : <b>Project Name</b> : Factory / Monthly <b>Project Location</b> : 100A (S)	<b>TESTING</b> No.0008 <b>Lot ID: 24841554</b> Date Received : Jan 18, 2023 Date Required : Jan 18, 2023 Report Number : 202007-2		
<b>Sampling By</b> : Chomchart Natapornchai enclosed # >204-e-0007			
<b>Remark</b> : 1.00 : Lot of 10000 1.01 : Lower limit 1/20 of 10000000 / 1/20 of 10000000 1.02 : Multiplier "Number" : Not included in scope of Accreditation (ISO 9001:2015) The laboratory has been assessed as an accredited laboratory complying with the ISO 9001:2015.			
<b>Technical Management</b>	 Satchit Natapornchai Manager enclosed # >204-e-0007	<b>Approved by</b>	 Satchit Nat Account General Manager enclosed # >204-e-0008
This report was prepared in accordance with the following conditions: 1. The report is the property of ALS and shall remain confidential. 2. The report is valid only for the purpose and conditions stated on the report. 3. The report is not valid for use as evidence of compliance with any standard or specification. 4. The report is not valid for use as evidence of compliance with any standard or specification. 5. The report is not valid for use as evidence of compliance with any standard or specification. 6. The report is not valid for use as evidence of compliance with any standard or specification. 7. The report is not valid for use as evidence of compliance with any standard or specification. 8. The report is not valid for use as evidence of compliance with any standard or specification. 9. The report is not valid for use as evidence of compliance with any standard or specification. 10. The report is not valid for use as evidence of compliance with any standard or specification.			
HEADQUARTERS: 100A (S) Bangkokmai Rd., Bangkokmai, Nongkhai, Saraburi Thailand / PHONE: 08-0-71766 0000 / FAX: 08-0-71766 0000 101A (S) Bangkokmai Rd., Bangkokmai, Nongkhai, Saraburi Thailand / PHONE: 08-0-71766 0000 / FAX: 08-0-71766 0000			
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<b>INDEPENDENT SOLUTIONS INDEPENDENT THAILAND</b>			

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		<h2 style="text-align: center;">Analysis / Test Report</h2>	<b>TESTING</b> No. 0009
<b>Client:</b> WWS, SOIREE and Power Public Company Limited 111 Moo 7, Bangraknuei Road, Bangraknuei, Nongkhai, Samsut Thailand 33140	<b>Date Received:</b> Jan 16, 2025	<b>Date Reported:</b> Jan 17, 2025	<b>Report Number:</b> 324021-1
<b>P/O #</b> <b>Project Name</b> : Factory   Hurdly <b>Project Location</b> : WWS-01			
<small>The laboratory has been accepted as an accredited laboratory complying with the ISO 9001:2015.</small>			
<small>Page 2 of 2</small>			
<b>Technical Management</b>		<b>Approved by</b>	
<b>Nalin Sanang</b> <b>Superior</b> <b>enr000001-1-204-e-0000</b>			
<small>Please note that this laboratory is not a certified laboratory. The results of the analysis are for information only and are not intended for legal or regulatory purposes. The laboratory is not responsible for the accuracy of the results of the analysis. The results of the analysis are for information only and are not intended for legal or regulatory purposes. The laboratory is not responsible for the accuracy of the results of the analysis.</small>			
<small>ORDERED BY: Nalin Sanang, 111 Moo 7, Bangraknuei Road, Bangraknuei, Nongkhai, Samsut Thailand 33140   PHONE: +66 8 2768 0000   FAX: +66 8 2768 0107</small>			
<small>ORDERED BY: Nalin Sanang, 111 Moo 7, Bangraknuei Road, Bangraknuei, Nongkhai, Samsut Thailand 33140   PHONE: +66 8 2768 0000   FAX: +66 8 2768 0107</small>			
<small>ORDERED BY: Nalin Sanang, 111 Moo 7, Bangraknuei Road, Bangraknuei, Nongkhai, Samsut Thailand 33140   PHONE: +66 8 2768 0000   FAX: +66 8 2768 0107</small>			
<small>ORDERED BY: Nalin Sanang, 111 Moo 7, Bangraknuei Road, Bangraknuei, Nongkhai, Samsut Thailand 33140   PHONE: +66 8 2768 0000   FAX: +66 8 2768 0107</small>			
<small>ORDERED BY: Nalin Sanang, 111 Moo 7, Bangraknuei Road, Bangraknuei, Nongkhai, Samsut Thailand 33140   PHONE: +66 8 2768 0000   FAX: +66 8 2768 0107</small>			
<small>ORDERED BY: Nalin Sanang, 111 Moo 7, Bangraknuei Road, Bangraknuei, Nongkhai, Samsut Thailand 33140   PHONE: +66 8 2768 0000   FAX: +66 8 2768 0107</small>			



**ALS**  
ANALYTICAL SERVICES LABORATORY



ISO 9001:2015  
CERTIFIED

## Analysis / Test Report

**Client:** WWA Utilities and River Public Company Limited  
111 Moo 9, Bangnaelard Road, Nongkhaeng, Bangnaeng, Saraburi Thailand 18140

**P/JO:** \_\_\_\_\_

**Project Name:** Factory / Municipality  
Project Location: WWA TS

**Sample Number:** 2443543-2  
Jan-06, 2025 1:30 PM

**Sample Description:** Grab 2 Wastewater WWT  
Contract ID: 002\_002-2016 **PK4** 348

**Date Analysis Commenced:** Jan 07, 2025

**Number of Samples:** 2  
(WWT/WWTP)

**Physical Property:** Contains one one liter glass bottles and three plastic bottles, sample containers comply to pre-treatment - preservation standards  
Container, some solvent, solid and not sealed

Analyte	Unit	LOD	LOQ	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
SSD (30 days at 20 degree C)	mg/L	-	2.0	2.3	9300	Standard Methods for the Examination of water and Wastewater, APHA, 20th ed., 2005, part 5210 B, part 5210 C	Bangkok
COD	mg/L	-	25	30	8750	Standard Methods for the Examination of water and Wastewater, APHA, 20th ed., 2005, part 5210 B	Bangkok
Oil & Grease	mg/L	-	3	<3	810	Standard Methods for the Examination of water and Wastewater, APHA, 20th ed., 2005, part 5510 B	Bangkok
pH (in air) *	-	-	-	8.1	5.5-9.0	Standard Methods for the Examination of water and Wastewater, APHA, 20th ed., 2005, part 4500 + 4510	Bangkok
Temperature *	Degree C	-	-	27.8	14-3	Standard Methods for the Examination of water and Wastewater, APHA, 20th ed., 2005, part 2510 B	Bangkok
Total Dissolved Solids (dried at 180 degree C)	mg/L	-	5	716	83000	Standard Methods for the Examination of water and Wastewater, APHA, 20th ed., 2005, part 2540 C	Bangkok
Total Suspended Solids (dried at 102-103 degree C)	mg/L	-	8	<5	8200	Standard Methods for the Examination of water and Wastewater, APHA, 20th ed., 2005, part 2540 D	Bangkok

**TESTING**  
**Lot ID: 00009**  
**Lot ID: 2443543-2**  
Issue Date: Jan 06, 2025  
Report Number: 13-01-2025  
Date Received: 309906-04


Page 1 of 1

**Guideline:** Standard of WWA Saraburi Industrial Land, Maximum levels for wastewater discharging to central wastewater treatment plant.


**Remark:** \* Normal Pollutant (discharge) > 200 + 0.009

100% = Good condition  
 < 75% = Lower than 100% of requirement (100% of test of reporting)  
 Analytical method

**Technical Measurement**

  
 Siriluk Parnak  
 Section Head  
 In-charge +1204-4553

**Approved by**

  
 Kanchan Aue  
 Assistant General Manager  
 In-charge +1204-4008

Wastewater Analysis Laboratory (WAL) is a part of WWA Saraburi Industrial Land, Saraburi, Thailand. It is a private company, established in 2016, and is a member of the Thai Water Pollution Control Association (TWPCA). WAL provides analytical services for WWA Saraburi Industrial Land and other clients. WAL is ISO 9001:2015 certified and follows the standard of WWA Saraburi Industrial Land for wastewater analysis. WAL is located at 111 Moo 9, Bangnaelard Road, Nongkhaeng, Bangnaeng, Saraburi, Thailand 18140. WAL can be contacted at +66 90 2772 9008 or +66 90 2782 9700.

**WWA Saraburi**

111 Moo 9, Bangnaelard Road, Nongkhaeng, Bangnaeng, Saraburi, Thailand 18140

Phone: +66 90 2772 9008





**www.alsglobal.com**

WASTEWATER ANALYSIS LABORATORY





Wastewater Analysis Laboratory (WAL)

111 Moo 9, Bangnaelard Road, Nongkhaeng, Bangnaeng, Saraburi, Thailand 18140


Phone: +66 90 2772 9008

	<h2 style="margin: 0;">Analysis / Test Report</h2>		<b>TESTING</b> No.0009
<b>Client :</b> WWA Utilities and Power Public Company Limited 111 Moo 7, Nongplertsach Road, Nongplertsach, Nongkhai, Thailand 50140	<b>Lot ID: 241431561</b> Date Received : Jan 05, 2025 Date Reported : Jan 13, 2025 Report Number : 2025009-1		
<b>P/O :</b> <b>Project Name :</b> Factory / Roadside <b>Project Location :</b> (Moo 52)	<i>Page 1 of 1</i>		
<p><small>The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.</small></p>			
<div style="display: flex; justify-content: space-between; align-items: center;"> <div style="width: 45%;"> <p><b>Technical Management</b></p> <div style="text-align: center; margin-top: 20px;">   <b>Siriluk P.</b>            Siriluk Surinak            Section Head            email:siriluk.p@als.com         </div> </div> <div style="width: 45%;"> <p><b>Approved by</b></p> <div style="text-align: center; margin-top: 20px;">   <b>Kachon Aue</b>            Kachon Aue            Assistant General Manager            email:kachon.a@als.com         </div> </div> </div>			
<p>             *This report is the property of ALS Laboratory Limited. It is prepared for the sole use of the client and is not to be distributed outside the client's organization without the written consent of ALS Laboratory Limited. The report is the property of ALS Laboratory Limited. It is prepared for the sole use of the client and is not to be distributed outside the client's organization without the written consent of ALS Laboratory Limited.           </p>			
<p>             44/44 Moo 7, Nongplertsach Road, Nongplertsach, Nongkhai, Thailand 50140              44/44 Moo 7, Nongplertsach Road, Nongplertsach, Nongkhai, Thailand 50140              44/44 Moo 7, Nongplertsach Road, Nongplertsach, Nongkhai, Thailand 50140           </p>			
<p> <b>www.alsglobal.com</b>  <b>ALSO</b> </p>			


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	<h1 style="margin: 0;">Analysis / Test Report</h1>		<b>TESTING</b> No. 0009
<b>Client :</b> WTA Utilities and Power Public Company Limited 112 Moo 7, Nongkhai Road, Nongkhai, Nongkhai, Saraburi Thailand 38140		<b>Lot ID:</b> 24141562 Date Received : Jan 13, 2025 Date Reported : Jan 15, 2025 Report Number : 1591800-1	
<b>P/O :</b>			
<b>Project Name :</b> Factory 1 Runby			
<b>Project Location:</b> WTA U.S.			
The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.			
<b>Technical Management</b>  <div style="text-align: center;">   <b>Sunimon C.</b>          Senior Chemist/analyst          Scientist (S)          in-house# 1-204-e-0018       </div>		<b>Approved by</b>  <div style="text-align: center;">   <b>Kanchana Aue</b>          Assistant General Manager          in-house# 1-204-e-0008       </div>	
Please refer to the laboratory's accreditation certificate for the scope of the accreditation and the conditions of accreditation. The accreditation is issued by the Thai National Accreditation Board (TANAB) and is valid for the period of 5 years from the date of issuance. The laboratory is committed to maintaining the highest standards of quality and accuracy in its testing services.			
1591800-1-14 Pharmaceutical WTA, Pharmaceutical WTA, Pharmacy Pharmaceutical, Khor Saeng Luek, Bangkok 10250 Thailand    PHONE : 08-9-7260 0000    FAX : 08-9-7260 0192 1591800-1-14 Pharmaceutical WTA, Pharmaceutical WTA, Pharmacy Pharmaceutical, Khor Saeng Luek, Bangkok 10250 Thailand    PHONE : 08-9-7260 0000    FAX : 08-9-7260 0192			
<a href="http://www.alsglobal.com">www.alsglobal.com</a>		<a href="http://www.alsglobal.com">www.alsglobal.com</a>	
REPORT 1591800-1-14			





# Analysis / Test Report



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**Client:** WMA Utilities and Power Public Company Limited  
111 Moo 7, Nongkhalang Road, Nongkhalang, Nongkhalang, Saraburi Thailand 35140

**P/O I:**

**Project Name:** Project 1 Monthly  
**Project Location:** WMA USL

**Sample Number:** 2141498-2  
**Sample Date:** Jan 10, 2023 11:15 AM  
**Sample Description:** Group 2 Wastewater WMS-CF  
**Contract ID:** USL 2024 2356  
**File No:** P201  
**Date Analysis Commenced:** Jan 10, 2023  
**Condition of Sample:** Contained in one amber glass bottle and three plastic bottles, sample containers comply to pre-treatment - preservation standards (NEN 6005:2002)  
**Final Property:** Yablon, a lot of colour, some solid and turbid

**TESTING**  
**No.0009**  
**Lot ID: 2141498**  
**Test Date:** Jan 10, 2023  
**Date Reported:** Jan 10, 2023  
**Report Number:** 219522-2

Page 1 of 1

Analyte	Unit	LOD	LOQ	Result	Guidelines / Specifications	Method	Testing Location
<b>Water Testing</b> SDI (5 min at 20 degree C)	mg/L	-	3.0	440	<500	Standard methods for the Examination of water and Wastewater, APHA, 21st ed, 1995, 24th ed., 2023, part 9210-1, part 4010-1-2	Sarangk
<b>COD</b>	mg/L	+	25	231	5750	Standard methods for the Examination of water and Wastewater, APHA, 21st ed, 1995, 24th ed., 2023, part 9210-2	Sarangk
<b>Oil &amp; Grease</b>	mg/L	-	3	9	210	Standard methods for the Examination of water and Wastewater, APHA, 21st ed, 1995, 24th ed., 2023, part 9210-8	Sarangk
<b>pH (at 20°C)</b> *	-	-	-	7.6	5.5-8.5	Standard methods for the Examination of water and Wastewater, APHA, 21st ed, 1995, 24th ed., 2023, part 9210-10	Sarangk
<b>Temperature</b> *	Degree C	+	-	26.3	19-5	Standard methods for the Examination of water and Wastewater, APHA, 21st ed, 1995, 24th ed., 2023, part 9210-11	Sarangk
<b>Total Suspended Solids Dried at 103-105 degree C</b>	mg/L	-	5	38	6200	Standard methods for the Examination of water and Wastewater, APHA, 21st ed, 1995, 24th ed., 2023, part 2540-2	Sarangk

**Reference:** Standard of WMA Saraburi Industrial Land, Maximum levels for wastewater discharging to central wastewater treatment plant.

**Sampling By:** Channayorn Sirirattakulwong +204-67493

**Notes:**

- 1. LOD = 3 times of detection
- 2. LOQ = 10 times of LOD
- 3. \* = Out of range (LOQ) (LOQ is limit of reporting)
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 <div style="float: right; text-align: right;">   <b>TESTING</b>  <b>Lot ID: 2441513</b>  <b>Date Received: Jan 27, 2025</b>  <b>Date Reported: Jan 24, 2025</b>  <b>Report Number: 2025023-2</b> </div>					
<b>Client:</b> WOL Industries and Power Rubber Company Limited 113 Moo 7, Bangkang Road, Bangkang, Bangkhuaeng, Samut Prakan 10540					
<b>P/O #:</b> <b>Project Name:</b> Factory 1 Monthly <b>Location:</b> 107NA 152					
<b>Sample Number</b>	21410323-1				
<b>Sampled Date</b>	Jan 07, 2025 18:20 AM				
<b>Sample Description</b>	Group 2 Wastewater 100% CIL	<b>Lot</b>	49	<b>Site:</b> Selsolai Phattho (Thailand) Co., Ltd.	
<b>Test Method</b>	ISO 1607-2:2015				
<b>Date Analysis Commenced</b>	Jan 06, 2025				
<b>Condition of Sample</b>	Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pre-treatment - preservation standards (APHA/USEPA).				
<b>Physical Property</b>	None, some solid, solid and turbid				
<b>Analyte</b>	<b>Unit</b>	<b>LOD</b>	<b>LOQ</b>	<b>Result</b>	
				<b>Guideline / Specification</b>	
<b>Water Testing</b>				<b>Method</b>	
DO: (20 ml @ 20 degree C)	mg/L	< 0.0	0.2	0.500	Standard Methods for the Examination of Water and Wastewater, 19th ed., 2011, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025
COO	mg/L	< 25	44	1.700	Standard Methods for the Examination of Water and Wastewater, 19th ed., 2011, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025
Oil & Grease	mg/L	< 3	6	2.10	Standard Methods for the Examination of Water and Wastewater, 19th ed., 2011, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025
pH (on site) °				7.4	Standard Methods for the Examination of Water and Wastewater, 19th ed., 2011, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025
Temperature °	Degree C	< 27.3	34.5	19.5	Standard Methods for the Examination of Water and Wastewater, 19th ed., 2011, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025
Total Suspended Solids Cooled at 103-105 degree C	mg/L	< 5	10	6200	Standard Methods for the Examination of Water and Wastewater, 19th ed., 2011, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025
<b>Guideline:</b> Standard of WHO Sanitary Industrial Land Use. Maximum limits for wastewater discharging to central wastewater treatment plant. <b>Sampling:</b> For Chlorinating Industrial effluents > 100-4 (P49)					
<b>Notes:</b> 1. DO: (20 ml @ 20 degree C) 2. COO: (100 ml @ 103-105 degree C) 3. Oil & Grease: (100 ml @ 103-105 degree C) 4. pH: (on site) 5. Temperature: (on site) 6. Total Suspended Solids Cooled at 103-105 degree C: (100 ml @ 103-105 degree C)					
<b>Technical Management</b> <div style="float: right; text-align: right;">   <b>Approved by</b>  <b>Karadon Aon</b>  <b>Assistant General Manager</b>  <b>microwell® &gt; 20M &lt; 0004</b> </div>					
<div style="text-align: center;">   <b>Noted</b>  <b>Norin Sanying</b>  <b>Supervisor</b>  <b>microwell® &gt; 20M &lt; 0009</b> </div>					
<div style="text-align: center;">  <b>www.alsglobal.com</b> </div>					





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ISO 9001:2015  
CERTIFIED

## Analysis / Test Report

**Client:** WSA Industrial and Power Public Company Limited  
111 Moo 7, Rangsitpattana Road, Rangsitpattana, Rangsit, Thailand 18010

**P/P ID:** \_\_\_\_\_

**Project Name / Factory / Plant:** \_\_\_\_\_

**Project Location:** (Site) 112

**Sample Number:** 101415356-1

**Sampled Date:** Jan 06, 2023 @ 2:10 PM

**Sample Description:** Group 2 Wastewater WIS-CF

**Contract ID:** 02\_200\_2354      **File #:** \_\_\_\_\_      **Site:** Sam-Pattana Co., Ltd (J45)

**Date Analysis Commenced:** Jan 07, 2023

**Condition of Sample:** Contained in an amber glass bottle and four plastic bottles, sample containers comply to pre-treatment - preservation standards (ASTM E1559P)

**Physical Property:** liquid, some solid, and no turbid

**TESTING**  
Lot: 01009  
**Lot ID:** 24411556  
Date Reported : Jan 09, 2023  
Report Number : 210974-7

Page 1 of 1

Analyte	Unit	LOD	LOQ	Result	Guideline / Specification	Method	Testing Location
<b>Fluoride Testing</b>							
Lead	mg/L	0.0003	0.0005	0.02	0.2	Standard method for the Determination of metal and Wastewater. ASTM, section 8, 9097, 24th ed., 2022, part 11.2.5, 9039, P.7	Sergenev
<b>Water Testing</b>							
BOD (5 days at 20 degree C)	mg/L	-	2.0	4.7	1500	Standard for the Determination of the Wastewater. ASTM, section 8, 9097, 24th ed., 2022, part 12.0.4, 9039, P.7	Sergenev
COD	mg/L	-	25	47	2750	Standard method for the Determination of metal and Wastewater. ASTM, section 8, 9097, 24th ed., 2022, part 12.0.5, 9039, P.7	Sergenev
Oil & Grease	mg/L	-	3	<3	110	Standard method for the Determination of metal and Wastewater. ASTM, section 8, 9097, 24th ed., 2022, part 12.0.6, 9039, P.7	Sergenev
pH (at 25 deg)	°	-	-	7.3	5.5-8.5	Standard method for the Determination of metal and Wastewater. ASTM, section 8, 9097, 24th ed., 2022, part 12.0.8, 9039, P.7	Sergenev
Temperature	°	-	-	28.2	14-3	Standard method for the Determination of metal and Wastewater. ASTM, section 8, 9097, 24th ed., 2022, part 12.0.9, 9039, P.7	Sergenev
Total Dissolved solids (Dried at 180 degree C	mg/L	-	5	320	93000	Standard method for the Determination of metal and Wastewater. ASTM, section 8, 9097, 24th ed., 2022, part 12.0.10, 9039, P.7	Sergenev
Total Suspended Solids (Dried at 102-105 degree C	mg/L	-	9	405	12300	Standard method for the Determination of metal and Wastewater. ASTM, section 8, 9097, 24th ed., 2022, part 12.0.11, 9039, P.7	Sergenev

**Guideline:** Standard of WSA Seratun Industrial Land, Maximum limits for wastewater discharging to central wastewater treatment plant.

**Technical Management**

*Savitree N*  
Savitree Nontakorn  
Manager  
michanida-n@sa-0007

**Approved by** *Kanokkorn A*  
Kanokkorn Aon  
Assistant General Manager  
michanida-n@sa-0008

Report generated by: *Wattana P*

Printed on: 01/09/2023 10:45:00 AM

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RENTAL SUPPLY, TRADING & PROTECTION

(Approved by: 01/09/2023 10:45:00 AM)

TESTING  
No. 0009  
**Lot ID: 24141508**  
Date Received : Jan 09, 2025  
Date Reported : Jan 15, 2025  
Report Number : 2295294-5

Sample Number		2343-1					
Sample Date		Jan 05, 2013 2:41 PM					
Sample Description		Group 2 Waterworks WB-CT					
Contract ID		SL_04_2356		Pkt 151		Site SLK (Thailand) Co., Ltd.	
Batch Analysis Commenced		Jan 01, 2015					
Detailed Description of Sample		Contained in five amber glass bottles and three plastic bottles; sample containers comply to pretreatment - preservation standards (NPAH/PAHs)					
Physical Property		Liquid, some solid, solid and turbid					
Analyte	Unit	LOD	LOD (LOQ)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
ROD (5 days at 28 degrees C)	mg/L	+	1.0	39.8	1500	Standard Methods for the Examination of Water and Wastewater, 19th ed., 2013, part 5220.0	Singapore
COO	mg/L	+	25	128	5750	Standard Methods for the Examination of Water and Wastewater, 19th ed., 2013, part 5220.0	Singapore
Oil & Grease	mg/L	+	3	5	110	Standard Methods for the Examination of Water and Wastewater, 19th ed., 2013, part 5520.0	Singapore
pH (in air) @ 25°C					8.2	3.9-9.0	Singapore
Temperature °	deg. C				26.1	14-35	Singapore
Total Suspended Solids Crude at 103.3 °C	mg/L	+	5	26	1200	Standard Methods for the Examination of Water and Wastewater, 19th ed., 2013, part 2550.0	Singapore

**Guideline:** Standard of WHO Sanitary Industrial Limit, Maximum levels for wastewater discharging to central wastewater treatment plant.  
**Sampling By :** Chaudhary Nalpanam RUDRAKSH -204-S-609?  
**Report :**  
 LOD :Limit of Detection  
 \*LO :Lower than LOD(Limit of Quantitation) (LOE :Limit of Reporting)  
 Analytical method : Not included in scope of Accreditation ISO/IEC 17025.  
 The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

**Technical Management**

*C. S.*

Nitin Saxena  
Supervisor  
INDUSACAP-004-e-0008

**Approved by**

*K. A.*

Karimkhan Ansh  
Assistant General Manager  
INDUSACAP-004-e-0004

Signed copies of this information are maintained under the following file numbers: INDUSACAP-004-e-0008; Approved by Karimkhan Ansh, Assistant General Manager, INDUSACAP-004-e-0004.

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Lot ID: 24141552  
Date Received: Jan 13, 2025  
Date Reported: Jan 17, 2025  
Report Number: 2295963-1

Sample Number	Top 10						
Sample Date	Group 2 Waterbury Hwy 21						
Sample Description	Site The Evergreen Co. Co. Ltd						
Control ID	SL 121_2368 PhC17						
Date Analysis Commenced	Jan 12, 2025						
Analysis Description	One amber glass bottle and three plastic bottles, sample containers comply to predestined - preservation standards						
Physical Property	(APHA/ASTM) Gases, odors, no solid and turbid						
Analyte	Unit	LOD	LOQ	Result	Guideline / Specification	Method	Testing Location
Water Testing							
DO (5 days at 20 degrees C)	mg/L	-	2.0	<2.0	1300	Standard Methods for the Examination of Water and Wastewater, 19th ed., 2013, part 1920 B, part 1920 - D 5	Sergio
CO2	mg/L	-	25	<25	1750	Standard Methods for the Examination of Water and Wastewater, 19th ed., 2013, part 1920 B, part 1920 - D 5	Sergio
OR & Growth	mg/L	-	3	3	119	Standard Methods for the Examination of Water and Wastewater, 19th ed., 2013, part 1920 B, part 1920 - D 5	Sergio
pH (at 20 °C)	-	-	-	8.2	5.5-8.0	Standard Methods for the Examination of Water and Wastewater, 19th ed., 2013, part 1920 B, part 1920 - D 5	Sergio
Temperature °	Degrees C	-	-	26.4	145	Standard Methods for the Examination of Water and Wastewater, 19th ed., 2013, part 1920 B, part 1920 - D 5	Sergio
Total Suspended Solids (dried at 105-120 degrees)	mg/L	-	5	<5	1200	Standard Methods for the Examination of Water and Wastewater, 19th ed., 2013, part 1920 B, part 1920 - D 5	Sergio

**Guideline:** Standard of WHO Sanatyl Industrial Land, Maximum levels for wastewater discharging to central wastewater treatment plant.  
**Sampling By:** Terezalet Pongseuk and Dornas B-204-4-0598  
**Remark:**  
 1-LOI : Limit of Detection  
 2-LOQ : Limit of Quantitation  
 3-LOE : Limit of Reporting  
 Analytical method : Not included in scope of Accreditation ISO/IEC 17025  
 The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management:   
Naine Sanying  
Inspector  
ins00000007 1-204-m-0000

Approved by:   
Karolinn Amis  
Assistant General Manager  
ins00000007 1-204-m-0000

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No. 0009  
**Lot ID: 24141495**  
 Date Received : Jan 13, 2025  
 Date Reported : Jan 18, 2025  
 Report Number : 2295218-5

<b>Sample Identifier</b>	214195-1						
<b>Sample Date</b>	Jan 08, 2016 @ 13:49						
<b>Sample Description</b>	Group 2 Waterbury WHC CT						
<b>Control ID</b>	SIL_05A_1594						
<b>Site</b>	Thai Halays Glass (Thailand) Co., Ltd.						
<b>Date Analysis Commenced</b>	Jan 11, 2016						
<b>Detailed Description:</b> Contained a color amber glass bottle and three plastic bottles; sample containers comply to predestination - preservation standards.							
<b>Purpose of Property</b>	NH <sub>4</sub> , some atoms, acid and sulfur						
<b>Analyte</b>	Unit	LOQ	LOD	Result	Gases/in or Specification	Method	Finding Location
<b>Volatile Testing</b>							
BOD ( $\geq 5$ days at 20 degrees C)	mg/L	-	1.0	54.8	3700	Standard Methods for the Examination of Water and Wastewater, APHA, ASTM & EPA, 20th ed., 2012, part 5210.5 (part 4100 + D	Impure
COD	mg/L	25	235	2750		Standard Methods for the Examination of Water and Wastewater, APHA & BSI, 20th ed., 2012, part 5210.5 (part 4100 + D	Impure
Oil & Grease	mg/L	3	8	110		Standard Methods for the Examination of Water and Wastewater, APHA & BSI, 20th ed., 2012, part 5210.5	Impure
pH (at site)	-	-	-	7.3	5.5-9.0	Standard Methods for the Examination of Water and Wastewater, APHA & BSI, 20th ed., 2012, part 4500 + H&M	Neutral
Temperature °C	Degrees C	-	-	24.8	<45	Standard Methods for the Examination of Water and Wastewater, APHA & BSI, 20th ed., 2012, part 4500 + H&M	Normal
Total Suspended Solids dried at 103°C	mg/L	-	3	240	3200	Standard Methods for the Examination of Water and	

**Catatan:** Standard of WHO Sewerage Industrial Land, Maximum levels for wastewater discharging to central wastewater treatment plant.  
**Sampling By :** Chairunng Sriyanti w030908@v-264-v-0149  
**Revisi:**

1.00	1.000 of October
1.01	(over than 1000 (out of Quantities) / 1 On 8 part of September)
1.02	Analytical method / 5 are not included in scope of Accreditation ISO/IEC 17025.
1.03	This laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

**Technical Management**


  
Steve Saiting  
Supervisor  
no Decree# 1-204-e-0009

**Approved by**

  
Karoline Awe  
Assistant General Manager  
no Decree# 1-204-e-0009


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ANALYTICAL SERVICES

**ANALYSIS / Test Report**



**TESTING**  
No: 0009  
**Lot ID: 2414357**  
Date Received : Jan 20, 2025  
Date Reported : Jan 23, 2025  
Report Number : 2025009-1

---

**Client** : WSA (Wasteline and Power Public Company Limited)  
111 Moo 7, Nongkluang Road, Nongkluang, Bangkok, Saiton Thailand 26340

**P/O #** :  
**Project Name** : Factory / Monthly  
**Project Location** : WSA, SE

**Sample Number** : 2414357-5  
**Sample Date** : Jan 16, 2025 8:40 AM  
**Contract ID** : Group 2 Wastewater #19-47  
**Sample Description** : USL, 20L, 2000 **Plot** : 45, 46, 43 **Site** : Thai Malaya Glass (Thailand) Co., Ltd.  
**Contract No.** : Jan 11, 2025  
**Data Analysis Commenced** : Jan 11, 2025


**Condition of Sample** : Combined in one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA-8205)  
**Physical Property** : Yellow, some colour, solid and turbid

Analyte	Unit	LOD	LOQ	Result	Guideline / Spec. Range	Method	Testing Location
<b>Water Testing</b> ISO-C: 20 to 25 degree C	mg/L	-	2.0	8.4	≤500	Standard Methods for the Examination of Water and Wastewater, APHA, 1995 & ISO, 1995 ed., 2023 part 522 & 509	Bangkok
COO	mg/L	-	25	40	≤750	Standard Methods for the Examination of Water and Wastewater, APHA, 1995 ed., 2023 part 522 & 509	Bangkok
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater, APHA, 1995 ed., 2023 part 522 & 509	Bangkok
pH (at site)	-	-	-	7.7	5.5-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, 1995 ed., 2023 part 522 & 509	Bangkok
Temperature	Degree C	-	-	26.8	≤45	Standard Methods for the Examination of Water and Wastewater, APHA, 1995 ed., 2023 part 522 & 509	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	3	18	≤200	Standard Methods for the Examination of Water and Wastewater, APHA, 1995 & ISO, 1995 ed., 2023 part 524 & 508	Bangkok


**Reference** : Standard of WSA Saiton Industrial Land, Maximum limits for wastewater discharging to central wastewater treatment plant.

**Sampling by** : Thermal Pumping  
 1. 1 unit of collection  
 2. 1 unit from 1/10 (1 unit of Quantities) 1 unit and 9 unit of report  
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# Analysis / Test Report



**Client:** AIAA Utilities and Power Public Company Limited  
111 Moo 7, Bangpakong Road, Bangpakong, Bangpakong, Saraburi Thailand (SR49)

**PJO #**

**Project Name:** Factory / Monthly

**Project Location:** (SR4, S2)

**Sample Number:** 241413M-2

**Sample Date:** Jan 05, 2024 9:50 AM

**Sample Description:** Group 2 Wastewater WQ-47

**Contract ID:** 051, 009, 2560 **Plot:** 70,71,72

**Date Analysis Commenced:** Jan 06, 2025

**Physical Description of Sample:** Yellow, in one amber glass bottle and three plastic bottles, sample containers comply to pretestment / preservation standards (AQAHA-S2529)  
Contents: some solids, acid and turbid

Physical Property	Unit	LOD	LOD [ppm]	Result	Guideline / New Fraction	Method	Tested Location
Waste Testing BOD-5 (at 20°C after 5 days)	mg/L	-	2.0	8.6	≤500	Standard Methods for the Examination of water and Wastewater, APHA, AWWA & WEF, 1995 ed., 2023 (part 5212 & 5207, 2005 ed., 2012 (part 5212 & 5207, 2005 ed., 2012 (part 5212 & 5207	Bangkok
CCO	mg/L	-	25	47	≤750	Standard Methods for the Examination of water and Wastewater, APHA, AWWA & WEF, 1995 ed., 2023 (part 5212 & 5207	Bangkok
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of water and Wastewater, APHA, AWWA & WEF, 1995 ed., 2023 (part 5212 & 5207	Bangkok
pH (at 20°C) *	-	-	-	7.3	5.5-9.0	Standard Methods for the Examination of water and Wastewater, APHA, AWWA & WEF, 1995 ed., 2023 (part 4530 & 9100 - (B)	Bangkok
Temperature *	Degree C	-	-	27.9	≤45	Standard Methods for the Examination of water and Wastewater, APHA, AWWA & WEF, 1995 ed., 2023 (part 2055 & 9100 - (B)	Bangkok
Total Suspended Solids Dried at 103-303 degree C	mg/L	-	3	7	≤200	Standard Methods for the Examination of water and Wastewater, APHA, AWWA & WEF, 1995 ed., 2023 (part 2540 & 9100 - (B)	Bangkok

**TESTING**  
No.0059  
**Lot ID:** 241413SA  
**Date Received:** Jan 07, 2025  
**Date Reported:** Jan 14, 2025  
**Report Number:** 2025040-1

Page 1 of 1

**Guideline:** Standard of SR49 Saraburi Industrial Land, Maximum levels for wastewater discharging to central wastewater treatment plant.

**Sampling by:** Charming Srisakulchai +204-810261

**Remark:**  
 \*LOD = Limit of Detection  
 \*LOQ = Lower limit LOD (8x of Guideline) / LOQ (8x of Reporting)  
 \*Method Accuracy: +5% over or -5% of of Accreditation ISO 17025  
 \*The laboratory has been awarded an international laboratory complying with the ISO/IEC 17025.

**Technical Management**

*Charming Srisakulchai*

Name Surname  
Supervisor  
email:chao+@204-810261

**Approved by**

*Kaew Aue*

Saraburi Area  
Regional General Manager  
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Head Office: 101/101 Moo 10, Bang Pakong Road, Bang Pakong, Saraburi 34120 Thailand    Phone: +66 8 2788 2000    Fax: +66 8 2788 2100

Branches: 101/101 Moo 10, Bang Pakong Road, Bang Pakong, Saraburi 34120 Thailand    Phone: +66 8 2788 2000    Fax: +66 8 2788 2100


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ANALYTICAL SERVICES

## Analysis / Test Report



**TESTING**  
No. 0009  
**Lot ID: 24141483**  
Date Issued : 31st May 2024  
Valid Reported : 31st May 2025  
Report Number : 231524-1

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**Client:** WMA Utilities and Power Public Company Limited  
113 Moo 7, Bangsuek Road, Bangsuek, Bangkok, Thailand 10240

**P/O #:**

**Project Name:** Factory / Industry

**Project Location:** (WMA-52)

**Sample Number:** 24124143-1

**Sample Date:** 09 Jun 2025 1:43 PM

**Sample Description:** Group 2 Wastewater WQ-CF

**Contract ID:** 661, 2024-2024 **Plot:** 4-32

**Date Analysis Commenced:** 10 Jun 2025

**Additional Sample:** (ANALYSIS REQUIRED)

**Physical Property:** Combined in one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards  
Wastewater, a lot of water, some solid and a lot of turbid

**Site:** Wilberg & Buch (Thailand) Co.Ltd

Page 1 of 1


Analysis	Unit	LOD	LOQ	Result	Guideline / Standard	Method	Testing Location
<b>Wastewater Treating</b> BOD-5 (20 ± 2 degree C)	mg/L	-	2.0	92.4	550	Standard Methods for the Examination of water and wastewater, APHA, 19th ed., 1995, (2023, part 522.6 (B), 20th ed., 2023, part 522.6 (B), 20th ed., 2023, part 522.6 (B))	bangkok
<b>COD</b>	mg/L	-	25	226	570	Standard Methods for the Examination of water and wastewater, APHA, 19th ed., 1995, 20th ed., 2023, part 522.5 (B)	bangkok
<b>Oil &amp; Grease</b>	mg/L	-	3	9	110	Standard Methods for the Examination of water and wastewater, APHA, 19th ed., 1995, 20th ed., 2023, part 522.5 (B)	bangkok
<b>pH (at site) *</b>	-	-	-	7.6	5.5-9.0	Standard Methods for the Examination of water and wastewater, APHA, 19th ed., 1995, 20th ed., 2023, part 450.0 (B), 20th ed., 2023, part 450.0 (B)	bangkok
<b>Temperature *</b>	Degree C	-	-	29.7	14-30	Standard Methods for the Examination of water and wastewater, APHA, 19th ed., 1995, 20th ed., 2023, part 2510.1 (B), 20th ed., 2023, part 2510.1 (B)	bangkok
<b>Total Suspended Solids (TSS) at site</b>	mg/L	-	5	40	5200	Standard Methods for the Examination of water and wastewater, APHA, 19th ed., 1995, 20th ed., 2023, part 2540.2 (B), 20th ed., 2023, part 2540.2 (B)	bangkok

**Guideline:** Standard of BMA Bangkok Industrial Land, Maximum levels for wastewater discharging to central wastewater treatment plant.

**Sampling By:** Charanvithai Jirathasri analcol009@wma-52.com


**Notes:**  
 \* 100 = 1 unit of detection  
 \* 1000 = 1000 units of detection (1000 is the unit of reporting)  
 Analytical method \* is not used or qualified as a method of Accredited ISO/IEC 17025.  
 The laboratory has been accredited as an accredited laboratory complying with the ISO/IEC 17025.

**Technical Management**



Naree Sattang  
Superior  
analcol009@wma-52.com

**Approved by**




Kachana Kiat  
Assistant General Manager  
analcol009@wma-52.com

WMA Utilities and Power Public Company Limited, 113 Moo 7, Bangsuek Road, Bangsuek, Bangkok 10240 Thailand | Phone: 02-674 2000 | Email: als@alsglobal.com


Authorized ALS Representative: Mr. Phichetkarn R. Chuanpraditkul, 4th Floor (Lobby), Bangsuek 10240 Thailand | Phone: 02-674 2000 | Email: als@alsglobal.com

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REPLY TO: [als@alsglobal.com](mailto:als@alsglobal.com)



# Analysis / Test Report



**Client:** WWA Utilities and Power Public Company Limited  
113 Moo 7, Bangsuek Road, Bangsuek, Bangkok, Samsuth Thailand 10340

**P/O :** \_\_\_\_\_

**Project Name:** Factory / Municipality  
**Project Location:** (State, Co.) \_\_\_\_\_

**Sample Number:** 2941551-1

**Sample Date:** Jan 09, 2023 to 05 AM

**Sample Description:** Group 2 Wastewater WQ-CF

**Contract ID:** 2015\_2075\_2017 **Plot:** 19/41

**Date Analysis Commenced:** Jan 10, 2023

**Reference to Sample:** (Reference to Sample)  
(Reference to Sample)

**Physical Property:** Combined in one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards

**Analysis:**

Unit	LOD	LOQ	Result	Guideline / Spec./Reference	Method	Testing Location
Waste Testing BOD (5) (over at 20 degree C)	mg/L	< 1.6	117	<500	Standard Methods for the Examination of Water and Wastewater, APHA, 19th ed. 2005, part 1921, part 1922 B	Bangkok
COD	mg/L	< 25	231	<750	Standard Methods for the Examination of Water and Wastewater, APHA, 19th ed. 2005, part 1921, part 1922 B	Bangkok
Oil & Grease	mg/L	< 3	7	<10	Standard Methods for the Examination of Water and Wastewater, APHA, 19th ed. 2005, part 1921, part 1922 B	Bangkok
pH (at site)		< 6.0		5.5-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, 19th ed. 2005, part 1921, part 1922 B	Bangkok
Temperature °	Degree C	< 28.6		14-5	Standard Methods for the Examination of Water and Wastewater, APHA, 19th ed. 2005, part 1921, part 1922 B	Bangkok
Total Suspended Solids (over at 233.5 degree C)	mg/L	< 5	48	<100	Standard Methods for the Examination of Water and Wastewater, APHA, 19th ed. 2005, part 1921, part 1922 B	Bangkok

**TESTING NO** 2941551-1

**Test Date** Jan 10, 2023

**Date Reported** Jan 15, 2023

**Report Number** 2023027-0


Page 1 of 1

**Remarks:** Standard of WWA Samsuth Industrial Land, Maximum limits for wastewater discharging to central wastewater treatment plant.


**Sampling By:** 1-Chemical Analysis and Instrumentation >20M<0807

**Analyst:** \_\_\_\_\_

✓ ( ) Limit of detection  
✓ ( ) Limit below LOQ (of Quantitation) (LOQ is not of Reporting)  
✓ ( ) Additional comment "see" will be indicated in report of Accreditation (EECC & PHS)  
The detection limit has been accepted as an acceptable detection complying with the ISO 15683.

**Technical Management:** 

Natt Saming  
Superior  
W/Quality of >20M<0009

**Approved by:** 

Kanchana Aree  
Assistant General Manager  
W/Quality of >20M<0007

Printed on: 2023-01-10 10:05:00  
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ALS logo and company information. Analysis / Test Report. Client: WWA Utilities and Power Public Company Limited. Project Name: Factory / Monthly. Project Location: WWA SS. Sample Number: 2541499-1. Sample Date: Feb 11, 2025 10:46 AM. Sample Description: Group 2 Wastewater WWS-CT. Contract ID: SL\_004\_2554. Plot: 153.04. Site: WWA Corporation Public Limited Company. Date Analysis Commenced: Feb 11, 2025. Condition of Sample: Confirmed in one amber glass bottle and three plastic bottles. sample containers comply to pretreatment - preservation standards (CWA/MS/SEPA). Yellow, some odour, solid and turbid. Physical Property: Analyte, Unit, LOD, LOQ, Result, Guidelines / Specification, Method, Testing Location. Water Testing: BOD (5 days at 20 degrees C), mg/L, 2.0, 34.8, 1500. COD, mg/L, 25, 147, 1750. Oil & Grease, mg/L, 3, <3, 110. pH (on site) \*, -, 7.8, 5.5-9.0. Temperature \*, Degree C, 30.7, 145. Total Suspended Solids Dried at 103-105 degree C, mg/L, 5, 18, 1200. Guidelines: Standard of WWA Sanitary Industrial Land. Maximum levels for wastewater discharging to central wastewater treatment plant. Sampling By: Channoring Sangphing enclosed >204+0049. Technical Management: Sirinuk P. Approved by: Kait Ait. www.alshub.com

ALS logo and company information. Analysis / Test Report. Client: WWA Utilities and Power Public Company Limited. Project Name: Factory / Monthly. Project Location: WWA SS. Sample Number: 2541500-1. Sample Date: Feb 11, 2025 2:43 PM. Sample Description: Group 2 Wastewater WWS-CT. Contract ID: SL\_004\_2554. Plot: 209. Site: World Quality Co., Ltd. Date Analysis Commenced: Feb 11, 2025. Condition of Sample: Confirmed in one amber glass bottle and three plastic bottles. sample containers comply to pretreatment - preservation standards (CWA/MS/SEPA). Yellow, a bit of odour, solid and turbid. Physical Property: Analyte, Unit, LOD, LOQ, Result, Guidelines / Specification, Method, Testing Location. Water Testing: BOD (5 days at 20 degrees C), mg/L, 2.0, 157, 1500. COD, mg/L, 25, 278, 1750. Oil & Grease, mg/L, 3, 14, 110. pH (on site) \*, -, 7.3, 5.5-9.0. Temperature \*, Degree C, 28.3, 145. Total Suspended Solids Dried at 103-105 degree C, mg/L, 5, 38, 1200. Guidelines: Standard of WWA Sanitary Industrial Land. Maximum levels for wastewater discharging to central wastewater treatment plant. Sampling By: Termont Pungkum enclosed >204+0050. Technical Management: Sirinuk P. Approved by: Kait Ait. www.alshub.com

ALS logo and company information. Analysis / Test Report. Client: WWA Utilities and Power Public Company Limited. Project Name: Factory / Monthly. Project Location: WWA SS. Sample Number: 254151-1. Sample Date: Feb 11, 2025 10:15 AM. Sample Description: Group 2 Wastewater WWS-CT. Contract ID: SL\_004\_2554. Plot: 1. Site: Air Liquide (Thailand) Co., Ltd. Date Analysis Commenced: Feb 11, 2025. Condition of Sample: Confirmed in one amber glass bottle and three plastic bottles. sample containers comply to pretreatment - preservation standards (CWA/MS/SEPA). Yellow, some odour, solid and no turbid. Physical Property: Analyte, Unit, LOD, LOQ, Result, Guidelines / Specification, Method, Testing Location. Water Testing: BOD (5 days at 20 degrees C), mg/L, 2.0, 6.4, 1500. COD, mg/L, 25, 73, 1750. Oil & Grease, mg/L, 3, <3, 110. pH (on site) \*, -, 8.2, 5.5-9.0. Temperature \*, Degree C, 28.9, 145. Total Suspended Solids Dried at 103-105 degree C, mg/L, 5, 8, 1200. Guidelines: Standard of WWA Sanitary Industrial Land. Maximum levels for wastewater discharging to central wastewater treatment plant. Sampling By: Termont Pungkum enclosed >204+0050. Technical Management: Sirinuk P. Approved by: Kait Ait. www.alshub.com

ALS logo and company information. Analysis / Test Report. Client: WWA Utilities and Power Public Company Limited. Project Name: Factory / Monthly. Project Location: WWA SS. Sample Number: 254151-1. Sample Date: Feb 11, 2025 2:00 PM. Sample Description: Group 2 Wastewater WWS-CT. Contract ID: SL\_004\_2554. Plot: 153.04. Site: WWA Corporation Public Limited Company. Date Analysis Commenced: Feb 11, 2025. Condition of Sample: Confirmed in one amber glass bottle and three plastic bottles. sample containers comply to pretreatment - preservation standards (CWA/MS/SEPA). Yellow, a bit of odour, solid and turbid. Physical Property: Analyte, Unit, LOD, LOQ, Result, Guidelines / Specification, Method, Testing Location. Water Testing: BOD (5 days at 20 degrees C), mg/L, 2.0, 18.0, 1500. COD, mg/L, 25, 119, 1750. Oil & Grease, mg/L, 3, 5, 110. pH (on site) \*, -, 7.8, 5.5-9.0. Temperature \*, Degree C, 25.0, 145. Total Suspended Solids Dried at 103-105 degree C, mg/L, 5, 102, 1200. Guidelines: Standard of WWA Sanitary Industrial Land. Maximum levels for wastewater discharging to central wastewater treatment plant. Sampling By: Termont Sangphing enclosed >204+0046. Technical Management: Sirinuk P. Approved by: Kait Ait. www.alshub.com

ALS logo and company information. Analysis / Test Report. Client: WWA Utilities and Power Public Company Limited. Project Name: Factory / Monthly. Project Location: WWA SS. Sample Number: 254151-1. Sample Date: Feb 11, 2025 9:30 AM. Sample Description: Group 2 Wastewater WWS-CT. Contract ID: SL\_004\_2554. Plot: 34. Site: Ch-Rubber Products Co., Ltd. Date Analysis Commenced: Feb 11, 2025. Condition of Sample: Confirmed in one amber glass bottle and three plastic bottles. sample containers comply to pretreatment - preservation standards (CWA/MS/SEPA). Yellow, some odour, solid and turbid. Physical Property: Analyte, Unit, LOD, LOQ, Result, Guidelines / Specification, Method, Testing Location. Water Testing: BOD (5 days at 20 degrees C), mg/L, 2.0, 242, 1500. COD, mg/L, 25, 396, 1750. Oil & Grease, mg/L, 3, 1, 110. pH (on site) \*, -, 8.7, 5.5-9.0. Temperature \*, Degree C, 33.8, 145. Total Suspended Solids Dried at 103-105 degree C, mg/L, 5, 40, 1200. Guidelines: Standard of WWA Sanitary Industrial Land. Maximum levels for wastewater discharging to central wastewater treatment plant. Sampling By: Termont Sangphing enclosed >204+0051. Technical Management: Sirinuk P. Approved by: Kait Ait. www.alshub.com

ALS logo and company information. Analysis / Test Report. Client: WWA Utilities and Power Public Company Limited. Project Name: Factory / Monthly. Project Location: WWA SS. Sample Number: 254151-1. Sample Date: Feb 11, 2025 1:15 PM. Sample Description: Group 2 Wastewater WWS-CT. Contract ID: SL\_004\_2554. Plot: 39. Site: ESG International (Thailand) P.L.C. Date Analysis Commenced: Feb 11, 2025. Condition of Sample: Confirmed in one amber glass bottle and three plastic bottles. sample containers comply to pretreatment - preservation standards (CWA/MS/SEPA). Yellow, some odour, solid and turbid. Physical Property: Analyte, Unit, LOD, LOQ, Result, Guidelines / Specification, Method, Testing Location. Water Testing: BOD (5 days at 20 degrees C), mg/L, 2.0, 16.2, 1500. COD, mg/L, 25, 86, 1750. Oil & Grease, mg/L, 3, <3, 110. pH (on site) \*, -, 7.3, 5.5-9.0. Temperature \*, Degree C, 28.3, 145. Total Suspended Solids Dried at 103-105 degree C, mg/L, 5, 18, 1200. Guidelines: Standard of WWA Sanitary Industrial Land. Maximum levels for wastewater discharging to central wastewater treatment plant. Sampling By: Termont Sangphing enclosed >204+0046. Technical Management: Sirinuk P. Approved by: Kait Ait. www.alshub.com

ALS logo and company information. Analysis / Test Report. Client: WWA Utilities and Power Public Company Limited. Project Name: Factory / Monthly. Project Location: WWA SS. Sample Number: 254151-1. Sample Date: Feb 11, 2025 10:35 AM. Sample Description: Group 2 Wastewater WWS-CT. Contract ID: SL\_004\_2554. Plot: 77.78. Site: FTA (Sanitary) Co., Ltd. Date Analysis Commenced: Feb 11, 2025. Condition of Sample: Confirmed in one amber glass bottle and three plastic bottles. sample containers comply to pretreatment - preservation standards (CWA/MS/SEPA). Yellow, some odour, solid and turbid. Physical Property: Analyte, Unit, LOD, LOQ, Result, Guidelines / Specification, Method, Testing Location. Water Testing: BOD (5 days at 20 degrees C), mg/L, 2.0, 12.5, 1500. COD, mg/L, 25, 46, 1750. Oil & Grease, mg/L, 3, <3, 110. pH (on site) \*, -, 7.8, 5.5-9.0. Temperature \*, Degree C, 27.5, 145. Total Suspended Solids Dried at 103-105 degree C, mg/L, 5, <5, 1200. Guidelines: Standard of WWA Sanitary Industrial Land. Maximum levels for wastewater discharging to central wastewater treatment plant. Sampling By: Termont Sangphing enclosed >204+0046. Technical Management: Sirinuk P. Approved by: Kait Ait. www.alshub.com

ALS logo and company information. Analysis / Test Report. Client: WWA Utilities and Power Public Company Limited. Project Name: Factory / Monthly. Project Location: WWA SS. Sample Number: 254151-1. Sample Date: Feb 11, 2025 11:30 AM. Sample Description: Group 2 Wastewater WWS-CT. Contract ID: SL\_004\_2554. Plot: 77.78. Site: FTA (Sanitary) Co., Ltd. Date Analysis Commenced: Feb 11, 2025. Condition of Sample: Confirmed in one amber glass bottle and three plastic bottles. sample containers comply to pretreatment - preservation standards (CWA/MS/SEPA). Yellow, some odour, solid and turbid. Physical Property: Analyte, Unit, LOD, LOQ, Result, Guidelines / Specification, Method, Testing Location. Water Testing: BOD (5 days at 20 degrees C), mg/L, 2.0, 15.3, 1500. COD, mg/L, 25, 59, 1750. Oil & Grease, mg/L, 3, <3, 110. pH (on site) \*, -, 7.9, 5.5-9.0. Temperature \*, Degree C, 28.5, 145. Total Suspended Solids Dried at 103-105 degree C, mg/L, 5, 14, 1200. Guidelines: Standard of WWA Sanitary Industrial Land. Maximum levels for wastewater discharging to central wastewater treatment plant. Sampling By: Termont Sangphing enclosed >204+0046. Technical Management: Sirinuk P. Approved by: Kait Ait. www.alshub.com

ALS logo and company information. Analysis / Test Report. Client: WWA Utilities and Power Public Company Limited. Project Name: Factory / Monthly. Project Location: WWA SS. Sample Number: 254151-1. Sample Date: Feb 11, 2025 9:30 AM. Sample Description: Group 2 Wastewater WWS-CT. Contract ID: SL\_004\_2554. Plot: 2. Site: Guelster Industries Corp Ltd. Date Analysis Commenced: Feb 11, 2025. Condition of Sample: Confirmed in one amber glass bottle and three plastic bottles. sample containers comply to pretreatment - preservation standards (CWA/MS/SEPA). Yellow, odourless, some odour, solid and turbid. Physical Property: Analyte, Unit, LOD, LOQ, Result, Guidelines / Specification, Method, Testing Location. Water Testing: BOD (5 days at 20 degrees C), mg/L, 2.0, 17.8, 1500. COD, mg/L, 25, 86, 1750. Oil & Grease, mg/L, 3, 6, 110. pH (on site) \*, -, 7.8, 5.5-9.0. Temperature \*, Degree C, 28.3, 145. Total Suspended Solids Dried at 103-105 degree C, mg/L, 5, 17, 1200. Guidelines: Standard of WWA Sanitary Industrial Land. Maximum levels for wastewater discharging to central wastewater treatment plant. Sampling By: Termont Pungkum enclosed >204+0050. Technical Management: Sirinuk P. Approved by: Kait Ait. www.alshub.com









Lot ID: 258208  
Date Received : Feb 11, 2025  
Date Reported : Feb 16, 2025  
Report Number : 3321520-5

Sample Number	258250-1						
Sample Date	Feb 13, 2015 1:24 PM						
Sample Description	Group 1 Waterbury 199 CT						
Contract ID	561,002,2580	Plot	17	Site	Waterbury Steam Co., Ltd.		
Analysis ID	Feb 13, 2015						
Conditions of Sample	Contained in one amber glass bottle and three plastic bottles; sample containers comply to pre-treatment - preservation standards						
Physical Property	Water, a bit of odor, solid, and luted						
Analyte	Unit	LOD	LOQ (LOD)	Result	Guideline / Specification	Method	Tested Location
Water Testing							
BOC (5 days at 20 degrees C)	mg/L		≤ 1.0	80.0	≤ 100	Standard Methods for the Examination of Water and Wastewater, APHA, 2005 & 1995, 19th ed., 19th ed., 19th ed., 19th ed.	Sample

CO	mg/L	25	166	1750	Standard Method for the Examination of Water and Wastewater, 19th, ed., 1995, 24th ed., 2012, part 522B D	Singhi
Oil & Grease	mg/L	3	5	110	Standard Method for the Examination of Water and Wastewater, 19th, ed., 1995, 24th ed., 2012, part 522B D	Singhi

pH (on site) *	-	-	8.1	5.5-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 1995 ed., 2012, part 9120-B	Sample
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Temperature *	degree C	1	34.0	945	Standard Methods for the Examination of Water and Wastewater, APHA, ASTM & WEF, 24th ed., 2012, part 2550-5	Serotype
Total Suspended Solids Dried at 103-105 degree C	mg/L	1	83	1200	Standard Methods for the Examination of Water and Wastewater, APHA, ASTM & WEF,	Serotype

**Guideline:** Standard of WHO Sanitary Industrial Land, Maximum levels for wastewater discharging to central wastewater treatment plant.

\* Accepted manuscript \* Manuscript not included in scope of Accreditation EQUIS, EFMD

**Technical Management**

  
Nahn Saeng  
Supervisor  
WZDASAPL-204-0-0000

**Approved by**

  
Karakorn Aonk  
Assistant General Manager  
WZDASAPL-204-0-0004

Please refer to the signature as recorded under the signature as appears in A-1. This certification shall be null and void if the signature is not signed.

[illegible]

Lot ID: 258220  
Date Received : Feb 11, 2025  
Date Reported : Feb 18, 2025  
Report Number : 3221537-3

Sample Identifier	21822.01						
Sample Date	19b 11: 2023 10 18 AM						
Sample Description	Group 2 Wastewater WWS-C						
Contact ID	003, 001, 2348	Ph# 8	Site: Nanosystems Industries Co., Ltd.				
Date Analysis Commenced	Feb. 13, 2023						
Conditions of Sample	Contained in one amber glass bottle and three plastic bottles, sample containers comply to pre-treatment - preservation standards (APHA 5510)						
Physical Property	Contains a lot of solids, light, and bottled						
Analyte	Unit	LOD	LOQ	Result	Guideline / Specification	Method	Testing Location
Water Testing							
DOC (5 days at 20 degrees C)	mg/L	-	2.0	76.9	2000	Standard Methods for the Examination of Water and Wastewater, 19th ed., APHA, AWWA, & WEF, 2005, vol. 19, Chap. 19.01 and 19.02	Bergin

COD	mg/L	—	25	274	6750	Standard Methods for the Examination of Water and Wastewater, 19th ed., 2013, part 5210	Samples
Oil & Grease	mg/L	—	3	3	610	Standard Methods for the Examination of Water and Wastewater, 19th ed., 2013	Samples

pH (mole/l) *	7	7	7.8	5.5-6.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF; 24th ed., 2023, part 4300 - (43)	Sample
Temperature *	Degree C	4	29.8	945	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF; 24th ed., 2023, part 4300 - (43)	Sample

Total Suspended Solids Dissolved at 103-105 degree C	mg/L	5	70	1200	Standard Methods for the Examination of Water and Wastewater, 19th ed., 2023, part 2530 B	Sewage
<b>Guideline:</b> Standard of WHO Sewer Industrial Land, Maximum levels for wastewater discharging to central wastewater treatment plant.						

**Sampling By:** Interval: Pungap (Dec 2011 - Nov 2015)

Technical Management Chen S Approved by Luokun An  
Kailuokun An

Supervisor: [supervisor@pharm.kmutd.ac.th](mailto:supervisor@pharm.kmutd.ac.th) Assistant General Manager: [assistantgm@pharm.kmutd.ac.th](mailto:assistantgm@pharm.kmutd.ac.th)  
 Tel: (02) 044-9-0000 Ext: 204-0-0000 Tel: (02) 044-9-0000 Ext: 204-0-0000

Results shown in this summary are dependent on the pricing and packaging of the drug. The agent must be registered in the country before it can be used without the clinical approval of the authority.

800-200-1004 Phramkhanak Kh. Phramkhanak Rd., Khung Phramkhanak, Chatuchak, Bangkok 10700 Thailand | Tel: (02) 044-9-0000 | Fax: (02) 044-9-2766

Lot ID: 258193  
Date Received : Feb 13, 2025  
Date Reported : Feb 19, 2025  
Report Number : 3321499-1

Sample Date	2/8/2019						
Sample Date	Feb 13, 2019 10:20 AM						
Sample Description	Group 1 Waterborne With C7						
Contact ID	063 2150	Plot	XX	Name			Wilson (Pulaski) Co, Ltd.
Analysis ID	Feb 12, 2019						
Conditions of Sample	Contained in one amber glass bottle and three plastic bottles, sample containers comply to pre-treatment - preservation standard						
Physical Property	Yellow, a bit of odor, solid, and neutral						
Analyte	Unit	LOD	LOQ	Result	Guideline / Specification	Method	Tested Location
			(LOQ)				
Water Testing							
000 (5 days at 20 degrees C)	mg/L	-	2.0	118	1500	Standard Methods for the Examination of Water and Wastewater, APHA, 1995 & 1998, 2005, and 2012 and 2018	Seeg

COO	mg/L	—	25	237	±750	Standard Methods for the Examination of Water and Wastewater, 19th ed., 2005, part 5226 D	Samples
Oil & Grease	mg/L	—	3	4	±10	Standard Methods for the Examination of Water and Wastewater, 19th ed., 2005, part 5226 D	Samples

pH (at site) *	-	-	7.9	5.5-8.0	Standard Methods for the Examination of Water and Wastewater, APHA, 18th ed., 2005, 2005 ed., 2023, para 9520.8	Benign
Temperature *	Degree C	-	29.2	5-15	Standard Methods for the Examination of Water and Wastewater, APHA, 18th ed., 2005, 2005 ed., 2023, para 9500 + (B)	Benign

Total Suspended Solids Dried at 103-105 degrees C	mg/L	—	\$	\$2	<200	Standard Methods for the Examination of Water and Wastewater, 20th ed., 2023, part 2030 b	Samples
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**Conclusion:** Standard of WMA Sarawak Industrial Land, Maximum levels for wastewater discharging to central wastewater treatment plant.

**Sampling By:** Tereosut Puangpak-Quasard# 1-204-9-0055

Technical Management Siriluk P. Approved by Karun Aue  
Sutthakorn Aue Karun Aue

[illegible]







Lot ID: 258251  
Date Received : Feb 11, 2025  
Date Reported : Feb 19, 2025  
Report Number: 3221972-5

Technical Management Siriluk P.  
Siriluk Burmal  
Section Head

Approved by Karolinn Aoki  
Karolinn Aoki  
Assistant General Manager

Results apply to the accepted or not field, unless the pricing rule is indicated as  $\Delta$ . The mean cost of the operations is given in italics without the option space of the operation.

**LIFE SOLUTIONS**

Lot ID: 258252  
Date Received : Feb 03, 2025  
Date Reported : Feb 10, 2025  
Report Number : XZ1573-1

Sample Number	25020-1			Page 1 of 1
Sampled Date	Feb-03, 2023 9:40 AM			
Sample Description	Group 2 Wastewater W01 CT			
Contract ID	SL_050_2554	Plot 00	Site	Sam-Funkiana Co., Ltd. (16)

<b>Date Analysis Commenced</b>	Feb 04, 2025
<b>Condition of Sample</b>	Contained in one amber glass bottle and four plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
<b>Physical Property</b>	Yellow, some odour, solid and no taste

Analysis	Unit	LOD	LOQ	Result	Guidelines / Specification	Method	Testing Location
<b>Metals Testing</b>							
Lead	mg/L	0.0003	0.0005	0.03	≤0.2	Standard Methods for the Examination of Water and Wastewater, 19th ed., 2012, pp. 15-18 and 20-21	Ecological
<b>Water Testing</b>							
SDC (15 days at 20 degrees C)	mg/L	-	2.0	4.4	≤1000	Standard Methods for the Examination of Water and Wastewater, 19th ed., 2012, pp. 5210-5 and 5210-6	Ecological
COD	mg/L	-	25	38	8750	Standard Methods for the Examination of Water and Wastewater, 19th ed., 2012, pp. 5210-5 and 5210-6	Ecological
Oil & Grease	mg/L	-	3	<3	430	Standard Methods for the Examination of Water and Wastewater, 19th ed., 2012, pp. 5120-8	Ecological
pH (at 25 °C)	-	-	-	7.9	5.8-8.0	Standard Methods for the Examination of Water and Wastewater, 19th ed., 2012, pp. 4500-4501	Ecological
Temperature *	Degree C	-	-	28.0	543	Standard Methods for the Examination of Water and Wastewater, 19th ed., 2012, pp. 1810-1811	Ecological

Total Dissolved Solids Cried at 180 °C	mg/L	—	\$	888	£3000	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 19th ed., 2013, part 2550 B	Sample
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Total Suspended Solids Dried at 103-105 degree C	mg/L	-	\$	<5	<200	Standard Methods for the Examination of Water and Wastewater, APHA, 19th ed., 2013, part 2040 C	Sample
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**Guideline:** Standard of WPA Sanbul Industrial Land, Maximum levels for wastewater discharging to central wastewater treatment plant.

Technical Management Chanett L.  
Chanettapan Leechon  
Section Head

Approved by Kanokorn Anit  
Kanokorn Anit  
Assistant General Manager

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[illegible]

No. 0009  
**Lot ID: 258169**  
 Date Received : Feb 03, 2025  
 Date Reported : Feb 10, 2025  
 Report Number : 3221471-5

Project Location:	238039-1			Page 1 of 1
Sample Number	Feb 03, 2025 9:30 AM			
Sample Date	Group 2 Wastewater WW-CT			
Sample Description	SL_032_2594	Plot 05	Site	San-Francisco Co, J26
Contract ID				

<b>Date Analysis Commenced</b>	Feb 04, 2025
<b>Condition of Sample</b>	Contained in one amber glass bottle and three plastic bottles. sample containers comply to pretreatment - preservation standards (APHA, 55th ed)
<b>Method of Measurement</b>	phosphorus colorimetric test of solids and suspended

Sample	Parameter	Unit	LOD [LOD]	Result	Guideline / Specification	Method	Passing Location
Water Testing							
WCD (15 days at 25 degree C)	mg/L	1.0	17.5	1300	Standard Methods for the Examination of Water and Wastewater, 19th Edition, 1995, 1999, 2005, 2012, 2017, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 2163, 2164, 2165, 2166, 2167, 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2177, 2178, 2179, 2180, 2181, 2182, 2183, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2219, 2220, 2221, 2222, 2223, 2224, 2225, 2226, 2227, 2228, 2229, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2240, 2241, 2242, 2243, 2244, 2245, 2246, 2247, 2248, 2249, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2263, 2264, 2265, 2266, 2267, 2268, 2269, 2270, 2271, 2272, 2273, 2274, 2275, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2288, 2289, 2290, 2291, 2292, 2293, 2294, 2295, 2296, 2297, 2298, 2299, 2300, 2301, 2302, 2303, 2304, 2305, 2306, 2307, 2308, 2309, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2320, 2321, 2322, 2323, 2324, 2325, 2326, 2327, 2328, 2329, 2330, 2331, 2332, 2333, 2334, 2335, 2336, 2337, 2338, 2339, 2340, 2341, 2342, 2343, 2344, 2345, 2346, 2347, 2348, 2349, 2350, 2351, 2352, 2353, 2354, 2355, 2356, 2357, 2358, 2359, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2407, 2408, 2409, 2410, 2411, 2412, 2413, 2414, 2415, 2416, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 2424, 2425, 2426, 2427, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2438, 2439, 2440, 2441, 2442, 2443, 2444, 2445, 2446, 2447, 2448, 2449, 2450, 2451, 2452, 2453, 2454, 2455, 2456, 2457, 2458, 2459, 2460, 2461, 2462, 2463, 2464, 2465, 2466, 2467, 2468, 2469, 2470, 2471, 2472, 2473, 2474, 2475, 2476, 2477, 2478, 2479, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2514, 2515, 2516, 2517, 2518, 2519, 2520, 2521, 2522, 2523, 2524, 2525, 2526, 2527, 2528, 2529, 2530, 2531, 2532, 2533, 2534, 2535, 2536, 2537, 2538, 2539, 2540, 2541, 2542, 2543, 2544, 2545, 2546, 2547, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2557, 2558, 2559, 2560, 2561, 2562, 2563, 2564, 2565, 2566, 2567, 2568, 2569, 2570, 2571, 2572, 2573, 2574, 2575, 2576, 2577, 2578, 2579, 2580, 2581, 2582, 2583, 2584, 2585, 2586, 2587, 2588, 2589, 2590, 2591, 2592, 2593, 2594, 2595, 2596, 2597, 2598, 2599, 2600, 2601, 2602, 2603, 2604, 2605, 2606, 2607, 2608, 2609, 2610, 2611, 2612, 2613, 2614, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 2623, 2624, 2625, 2626, 2627, 2628, 2629, 2630, 2631, 2632, 2633, 2634, 2635, 2636, 2637, 2638, 2639, 2640, 2641, 2642, 2643, 2644, 2645, 2646, 2647, 2648, 2649, 2650, 2651, 2652, 2653, 2654, 2655, 2656, 2657, 2658, 2659, 2660, 2661, 2662, 2663, 2664, 2665, 2666, 2667, 2668, 2669, 2670, 2671, 2672, 2673, 2674, 2675, 2676, 2677, 2678, 2679, 2680, 2681, 2682, 2683, 2684, 2685, 2686, 2687, 2688, 2689, 2690, 2691, 2692, 2693, 2694, 2695, 2696, 2697, 2698, 2699, 2700, 2701, 2702, 2703, 2704, 2705, 2706, 2707, 2708, 2709, 2710, 2711, 2712, 2713, 2714, 2715, 2716, 2717, 2718, 2719, 2720, 2721, 2722, 2723, 2724, 2725, 2726, 2727, 2728, 2729, 2730, 2731, 2732, 2733, 2734, 2735, 2736, 2737, 2738, 2739, 2740, 2741, 2742, 2743, 2744, 2745, 2746, 2747, 2748, 2749, 2750, 2751, 2752, 2753, 2754, 2755, 2756, 2757, 2758, 2759, 2760, 2761, 2762, 2763, 2764, 2765, 2766, 2767, 2768, 2769, 2770, 2771, 2772, 2773, 2774, 2775, 2776, 2777, 2778, 2779, 2780, 2781, 2782, 2783, 2784, 2785, 2786, 2787, 2788, 2789, 2790, 2791, 2792, 2793, 2794, 2795, 2796, 2797, 2798, 2799, 2800, 2801, 2802, 2803, 2804, 2805, 2806, 2807, 2808, 2809, 2810, 2811, 2812, 2813, 2814, 2815, 2816, 2817, 2818, 2819, 2820, 2821, 2822, 2823, 2824, 2825, 2826, 2827, 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3492, 3493, 3494, 3495, 3496, 3497, 3498, 3499, 3500, 3501, 3502, 3503, 3504, 3505, 3506, 3507, 3508, 3509, 3510, 3511, 3512, 3513, 3514, 3515, 3516, 3517, 3518, 3519, 3520, 3521, 3522, 3523, 3524, 3525, 3526, 3527, 3528, 3529, 3530, 3531, 3532, 3533, 3534, 3535, 3536, 3537, 3538, 3539, 3540, 3541, 3542, 3543, 3544, 3545, 3546, 3547, 3548, 3549, 3550, 3551, 3552, 3553, 3554, 3555, 3556, 3557, 3558, 3559, 3560, 3561, 3562, 3563, 3564, 3565, 3566, 3567, 3568, 3569, 3570, 3571, 3572, 3573, 3574, 3575, 3576, 3577, 3578, 3579, 3580, 3581, 3582, 3583, 3584, 3585, 3586, 3587, 3588, 3589, 3590, 3591, 3592, 3593, 3594, 3595, 3596, 3597, 3598, 3599, 3600, 3601, 3602, 3603, 3604, 3605, 3606, 3607, 3608, 3609, 3610, 3611, 3612, 3613, 3614, 3615, 3616, 3617, 3618, 3619, 3620, 3621, 3622, 3623, 3624, 3625, 3626, 3627, 3628, 3629, 3630, 3631, 3632, 3633, 3634, 3635, 3636, 3637, 3638, 3639, 3640, 3641, 3642, 3643, 3644, 3645, 3646, 3647, 3648, 3649, 3650, 3651, 3652, 3653, 3654, 3655, 3656, 3657, 3658, 3659, 3660, 3661, 3662, 3663, 3664, 3665, 3666, 3667, 3668, 3669, 3670, 3671, 3672, 3673, 3674, 3675, 3676, 3677, 3678, 3679, 3680, 3681, 3682, 3683, 3684, 3685, 3686, 3687, 3688, 3689, 3690, 3691, 3692, 3693, 3694, 3695, 3696, 3697, 3698, 3699, 3700, 3701, 3702, 3703, 3704, 3705, 3706, 3707, 3708, 3709, 3710, 3711, 3712, 3713, 3714, 3715, 3716, 3717, 3718, 3719, 3720, 3721, 3722, 3723, 3724, 3725, 3726, 3727, 3728, 3729, 3730, 3731, 3732, 3733, 3734, 3735, 3736, 3737, 3738, 3739, 3740, 3741, 3742, 3743, 3744, 3745, 3746, 3747, 3748, 3749, 3750, 3751, 3752, 3753, 3754, 3755, 3756, 3757, 3758, 3759, 3760, 3761, 3762, 3763, 3764, 3765, 3766, 3767, 3768, 3769, 3770, 3771, 3772, 3773, 3774, 3775, 3776, 3777, 3778, 3779, 3780, 3781, 3782, 3783, 3784, 3785, 3786, 3787, 3788, 3789, 3790, 3791, 3792, 3793, 3794, 3795, 3796, 3797, 3798, 3799, 3800, 3801, 3802, 3803, 3804, 3805, 3806, 3807, 3808, 3809, 3810, 3811, 3812, 3813, 3814, 3815, 3816, 3817, 3818, 3819, 3820, 3821, 3822, 3823, 3824, 3825, 3826, 3827, 3828, 3829, 3830, 3831, 3832, 3833, 3834, 3835, 3836, 3837, 3838, 3839, 3840, 3841, 3842, 3843, 3844, 3845, 3846, 3847, 3848, 3849, 3850, 3851, 3852, 3853, 3854, 3855, 3856, 3857, 3858, 3859, 3860, 3861, 3862, 3863, 3864, 3865, 3866, 3867, 3868, 3869, 3870, 3871, 3872, 3873, 3874, 3875, 3876, 3877, 3878, 3879, 3880, 3881, 3882, 3883, 3884, 3885, 3886, 3887, 3888, 3889, 3890, 3891, 3892, 3893, 3894, 3895, 3896, 3897, 3898, 3899, 3900, 3901, 3902, 3903, 3904, 3905, 3906, 3907, 3908, 3909, 3910, 3911, 3912, 3913, 3914, 3915, 3916, 3917, 3918, 3919, 3920, 3921, 3922, 3923, 3924, 3925, 3926, 3927, 3928, 3929, 3930, 3931, 3932, 3933, 3934, 3935, 3936, 3937, 3938, 3939, 3940, 3941, 3942, 3943, 3944, 3945, 3946, 3947, 3948, 3949, 3950, 3951, 3952, 3953, 3954, 3955, 3956, 3957, 3958, 3959, 3960, 3961, 3962, 3963, 3964, 3965, 3966, 3967, 3968, 3969, 3970, 3971, 3972, 3973, 3974, 3975, 3976, 3977, 3978, 3979, 3980, 3981, 3982, 3983, 3984, 3985, 3986, 3987, 3988, 3989, 3990, 3991, 3992, 3993, 3994, 3995, 3996, 3997, 3998, 3999, 4000, 4001, 4002, 4003, 4004, 4005, 4006, 4007, 4008, 4009, 4010, 4011, 4012, 4013, 4014, 4015, 4016, 4017, 4018, 4019, 4020, 4021, 4022, 4023, 4024, 4025, 4026, 4027, 4028, 4029, 4030, 4031, 4032, 4033, 4034, 4035, 4036, 4037, 4038, 4039, 4040, 4041, 4042, 4043, 4044, 4045, 4046, 4047, 4048, 4049, 4050, 4051		

**Order No.:** Standard of WMA Sanabel Industrial Land, Maximum levels for wastewater discharging to central wastewater treatment plant.  
**Sampling By:** Termest Purnakul, m.purnakul@v-204-v-0058

\* LOD = Limit of Detection  
 \* CL = Lower than LOD (Limit of Quantitation) / LOQ (Limit of Reporting)  
 Analyte(s) marked \* is/are not included in scope of Accreditation ISO/IEC 17025

$C_{11} = P$        $K_{11} = A_1$

Technical Management Smituk P. Approved by Carole Anne  
British Journal Kanakoon Anuk  
Section Head Assistant General Manager

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ALS						UNIVERSITY MICROFILMS INTERNET SERVICE	
Analysis / Test Report						TESTING NO. 0009	
<b>Client:</b> WWA Utilities and Power Public Company Limited 111 Rue 7, Bangkoklad Road, Bangkadesh, Nongkhua, Thailand 10140						<b>Lot ID:</b> 2518137	
<b>P/O #:</b>						<b>Date Received:</b> 16 Oct. 2025	
<b>Project Name:</b> Factory 1 Monthly						<b>Date Reported:</b> 16 Oct. 2025	
<b>Project Location:</b> WWA S2.						<b>Report Number:</b> 25043651-1	
						Page 1 of 1	
<b>Sample Number</b>	2518137-1						
<b>Sampled Date</b>	Fri Mar 26, 2025 00:00 AM						
<b>Sample Description</b>	Group 2 Standwater 600 CT						
<b>Contract ID</b>	SIL, 2015_2504	<b>PKT</b>	F01 1832,40				
<b>Collection Date</b>	Fri Oct. 27, 2025						
<b>Physical Appearance</b>	Contained in one amber plastic bottle and three glass bottles; sample containers comply to pretreatment - preservation standards (WMA/SAPFA)						
<b>Detailed Property</b>	Yellow, some white, acid, and turbid						
<b>Analyte</b>	<b>Unit</b>	<b>LOD</b> <small>(mg/L)</small>	<b>Result</b>	<b>Guideline / Specification</b>	<b>Method</b>	<b>Testing Location</b>	
<b>Water Testing</b>							
BOD (5 days at 20 degrees C)	mg/L	<	2.6	10.9	£500	Standard Methods for the Examination of water and wastewater, alpha, astma & WEF, 24th ed., 2023 and 5222 D	Gangkok
COD	mg/L	<	25	34	£750	Standard Methods for the Examination of Water and Wastewater, alpha, astma & WEF, 24th ed., 2023 and 5222 D	Gangkok
Cl & Oxygen	mg/L	<	3	<3	£10	Standard Methods for the Examination of Water and Wastewater, alpha, astma & WEF, 24th ed., 2023 and 5222 D	Gangkok
pH (at site) *	-	-	7.3	5.5-8.2		Standard Methods for the Examination of Water and Wastewater, alpha, astma & WEF, 24th ed., 2023 and 5222 D	Gangkok
Temperature *	Degree C	<	32.4	145		Standard Methods for the Examination of Water and Wastewater, alpha, astma & WEF, 24th ed., 2023 and 5222 D	Gangkok
Total Suspended Solids Oiled at 102-100 Degree C	mg/L	<	60	£300		Standard Methods for the Examination of Water and Wastewater, alpha, astma & WEF, 24th ed., 2023 and 5222 D	Gangkok
<b>Guidance:</b> Standard of WWA Sanitary Industrial Land, Maximum limits for wastewater discharge to central wastewater treatment plant. <b>Sampling by:</b> Thermsak Pangsuk, autoclave# = 204 = 0055							
<b>Remarks:</b>	1-LTD Lower Limit 1/2 of the Quantitation (1/100 g and of Reporting) Autoclave method * can be used instead to report autoclave BOD/COD (BOD). Sampling may be failed in case of inaccurate BOD/COD (COD).						
<b>Technician Measurement</b>	CIN-SAN		Approved by		Kasit Anan		
	Nont Saengsu Supervisor Autoclave# = 204 = 0009				Kasit Anan Assistant General Manager Autoclave# = 204 = 0004		
Note: This report was generated after applying the standard of ALS Test and/or reference laboratory's test result for the above of the parameters. 05/05/2015 124 Phothachon 60, Phothachon 60, Khayam Phothachon, Chai Jan San, Bangkok 10140 TEL : 02-016-877-2000 FAX : 02-016-877-2001 www.als-lab.com							



							
<b>Analysis / Test Report</b>		<b>TESTING</b> No. 0009					
<b>Client:</b> WMA Utilities and Power Public Company Limited 111 Moo 7, Bangnangdaeng Road, Bangnang, Bangnahe, Saraburi Thailand 38140		<b>Lot ID:</b> 2518160 <b>Date Received:</b> 16th May, 2025 <b>Date Reported:</b> 16th May, 2025 <b>Report Number:</b> 250406-01					
<b>P/O #:</b> <b>Project Name:</b> Factory 1 Roadside <b>Project Location:</b> WMA GL		<b>Page 1 of 1</b>					
<b>Sample Number:</b> 2518160-1 <b>Received By:</b> Group 2 Watermeter 800 CT <b>Contract ID:</b> SL 095 2394 <b>Phi:</b> 80, 81 <b>Date of Sample Collection:</b> 06 May, 2025 <b>Condition of Sample:</b> Contained in one amber glass bottle and three plastic bottles, sample containers comply to pre-treatment - greenwater standards (APHA/USEPA)		<b>Site:</b> Water Component Technology(Thailand) Co., Ltd.					
<b>Physical Property</b> Unit, matrix, color, solid, and no-biofied							
Analyte	Unit	LOD	LOQ	Result	Guideline / Specification	Method	Testing Location
Water Testing 800 (5 days at 20 degree C)	mg/L	-	2.8	2.4	1500	Standard Methods for the Examination of water and wastewater, 19th ed., 2023, pp. 9129 D	Nanjing
COO	mg/L	-	25	<25	1750	Standard Methods for the Examination of water and wastewater, 19th ed., 2023, pp. 9129 D	Nanjing
Oil & Grease	mg/L	-	3	3	110	Standard Methods for the Examination of water and wastewater, 19th ed., 2023, pp. 9129 D	Nanjing
pH (on site) *	-	-	-	7.7	5.5-9.0	Standard Methods for the Examination of water and wastewater, 19th ed., 2023, pp. 9129 D	Nanjing
Temperature *	-	-	-	32.2	145	Standard Methods for the Examination of water and wastewater, 19th ed., 2023, pp. 9129 D	Nanjing
Total Suspended Solids (D8)	mg/L	-	5	<5	1200	Standard Methods for the Examination of water and wastewater, 19th ed., 2023, pp. 9129 D	Nanjing
<b>Guideline:</b> Standard of WMA Saraburi Industrial Land, Maximum levels for wastewater discharging to central wastewater treatment plant <b>Sampling by:</b> Thermal Pumping and vacuum - 53M-0005							
<b>Remark:</b> 1. LOD : Limit of Detection 2. CT : Lower than 100% (out of Quantified) : 1.06 (out of Inexpensive) Analytical method : Is not included in scope of accreditation (ISO/IEC 17025) Sampling is not included in scope of accreditation (ISO/IEC 17025)							
<b>Technical Management</b>  Noni Tawong Supervisor authorized-2504-0009		<b>Approved by</b>  Kanyakorn Joon Resident General Manager authorized-2504-0004					
*Note: this is not intended to certify, either, the purity or the composition of the sample, or the reliability of the representative value for the use intended by the customer.							
001001001001 Phatthana-Ban, Phatthana-Ban, Chai San, Gung, Bangkok, 10150 Thailand   Phone: 09-0760-0000   Fax: 09-0760-0000   Email: info@als.com							
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## Analysis / Test Report

**Client** : WWA Utilities and Power Public Company Limited  
 111 Moo 7, Nongpladung Road, Nongpladung, Nongkhai, Saraburi Thailand 35140

**P/O #** :  
**Project Name** : Factory / Industry  
**Project Location** : NHA 351

**Sample Number** : 2518135-1  
**Sample Date** : Mar 07, 2023 10:20 AM CT  
**Sample Description** : Group 2 Wastewater WWA-CT  
**Contract ID** : SGL, 258, 254 **Ref** : 613  
**Location** : Factory 1  
**Order Analysis Commented** : Mar 06, 2023  
**Condition of Sample** : Combined in one amber glass bottle and three plastic bottles, sample containers comply to pre-treatment - preservation standards  
**Physical Property** : Colorless, turbid, opaque, solid, and not frothed

**Lot ID** : 25181355  
**Date Received** : Mar 07, 2023  
**Order Received** : Mar 13, 2023  
**Order Number** : 25430413

**TESTING**  
**Ref** : 00009

Page 1 of 1

Analyte	Unit	LOD (µg/L)	LOQ (µg/L)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
BOD (5 day) @ 20 Degree C	mg/L	—	2.6	4.1	<500	Standard methods for the Examination of Water and Wastewater, 19th ed., 2023, part 5211 B, part 5211 B.1	Nongkhai
COD	mg/L	—	25	28	6750	Standard methods for the Examination of Water and Wastewater, 19th ed., 2023, part 5211 B, part 5211 B.1	Nongkhai
Oil & Grease	mg/L	—	3	<3	210	Standard methods for the Examination of Water and Wastewater, 19th ed., 2023, part 5211 B, part 5211 B.1	Nongkhai
pH (at 25 °C) *	—	—	—	7.5	5.5-9.0	Standard methods for the Examination of Water and Wastewater, 19th ed., 2023, part 4505 - 4510	Nongkhai
Temperature *	Degree C	—	—	30.8	1-43	Standard methods for the Examination of Water and Wastewater, 19th ed., 2023, part 2550 B	Nongkhai
Total Suspended Solids Dried at 105-135 Degree C	mg/L	—	5	8	1200	Standard methods for the Examination of Water and Wastewater, 19th ed., 2023, part 2540 D	Nongkhai

**Guideline** : Standard of WWA Saraburi Industrial Land, Maximum levels for wastewater discharging to central wastewater treatment plant.

**Sampling** : by Thermal Pumping, enclosed by >20 x >200

**Notes** :  
 (1) : Limit of Detection  
 (2) : Limit below LOD (Limit of Quantitation) : (LOQ = 3 x of Horizontal  
 Analytical method) \* Acute not Accredited in scope of Accreditation (ISO 15189)  
 Sampling is not included in scope of accreditation (ISO 15189)

**Technical Management**

  
 Nara Seem  
 Supervisor  
 enclosed by >20 x >200



**Approved by**

  
 K. A. A.  
 Graduate Area  
 Resident General Manager  
 enclosed by >20 x >200


This report and its contents are intended solely for the use of the client. The report and its contents are not to be used for any other purpose without the prior written consent of ALS.


REVISION 101 (Preliminary) 01 Preliminary Report, 02 Review Report, 03 Final Report, 04 Final Report, 05 Final Report, 06 Final Report, 07 Final Report, 08 Final Report, 09 Final Report, 10 Final Report, 11 Final Report, 12 Final Report, 13 Final Report, 14 Final Report, 15 Final Report, 16 Final Report, 17 Final Report, 18 Final Report, 19 Final Report, 20 Final Report, 21 Final Report, 22 Final Report, 23 Final Report, 24 Final Report, 25 Final Report, 26 Final Report, 27 Final Report, 28 Final Report, 29 Final Report, 30 Final Report, 31 Final Report, 32 Final Report, 33 Final Report, 34 Final Report, 35 Final Report, 36 Final Report, 37 Final Report, 38 Final Report, 39 Final Report, 40 Final Report, 41 Final Report, 42 Final Report, 43 Final Report, 44 Final Report, 45 Final Report, 46 Final Report, 47 Final Report, 48 Final Report, 49 Final Report, 50 Final Report, 51 Final Report, 52 Final Report, 53 Final Report, 54 Final Report, 55 Final Report, 56 Final Report, 57 Final Report, 58 Final Report, 59 Final Report, 60 Final Report, 61 Final Report, 62 Final Report, 63 Final Report, 64 Final Report, 65 Final Report, 66 Final Report, 67 Final Report, 68 Final Report, 69 Final Report, 70 Final Report, 71 Final Report, 72 Final Report, 73 Final Report, 74 Final Report, 75 Final Report, 76 Final Report, 77 Final Report, 78 Final Report, 79 Final Report, 80 Final Report, 81 Final Report, 82 Final Report, 83 Final Report, 84 Final Report, 85 Final Report, 86 Final Report, 87 Final Report, 88 Final Report, 89 Final Report, 90 Final Report, 91 Final Report, 92 Final Report, 93 Final Report, 94 Final Report, 95 Final Report, 96 Final Report, 97 Final Report, 98 Final Report, 99 Final Report, 100 Final Report, 101 Final Report, 102 Final Report, 103 Final Report, 104 Final Report, 105 Final Report, 106 Final Report, 107 Final Report, 108 Final Report, 109 Final Report, 110 Final Report, 111 Final Report, 112 Final Report, 113 Final Report, 114 Final Report, 115 Final Report, 116 Final Report, 117 Final Report, 118 Final Report, 119 Final Report, 120 Final Report, 121 Final Report, 122 Final Report, 123 Final Report, 124 Final Report, 125 Final Report, 126 Final Report, 127 Final Report, 128 Final Report, 129 Final Report, 130 Final Report, 131 Final Report, 132 Final Report, 133 Final Report, 134 Final Report, 135 Final Report, 136 Final Report, 137 Final Report, 138 Final Report, 139 Final Report, 140 Final Report, 141 Final Report, 142 Final Report, 143 Final Report, 144 Final Report, 145 Final Report, 146 Final Report, 147 Final Report, 148 Final Report, 149 Final Report, 150 Final Report, 151 Final Report, 152 Final Report, 153 Final Report, 154 Final Report, 155 Final Report, 156 Final Report, 157 Final Report, 158 Final Report, 159 Final Report, 160 Final Report, 161 Final Report, 162 Final Report, 163 Final Report, 164 Final Report, 165 Final Report, 166 Final Report, 167 Final Report, 168 Final Report, 169 Final Report, 170 Final Report, 171 Final Report, 172 Final Report, 173 Final Report, 174 Final Report, 175 Final Report, 176 Final Report, 177 Final Report, 178 Final Report, 179 Final Report, 180 Final Report, 181 Final Report, 182 Final Report, 183 Final Report, 184 Final Report, 185 Final Report, 186 Final Report, 187 Final Report, 188 Final Report, 189 Final Report, 190 Final Report, 191 Final Report, 192 Final Report, 193 Final Report, 194 Final Report, 195 Final Report, 196 Final Report, 197 Final Report, 198 Final Report, 199 Final Report, 200 Final Report, 201 Final Report, 202 Final Report, 203 Final Report, 204 Final Report, 205 Final Report, 206 Final Report, 207 Final Report, 208 Final Report, 209 Final Report, 210 Final Report, 211 Final Report, 212 Final Report, 213 Final Report, 214 Final Report, 215 Final Report, 216 Final Report, 217 Final Report, 218 Final Report, 219 Final Report, 220 Final Report, 221 Final Report, 222 Final Report, 223 Final Report, 224 Final Report, 225 Final Report, 226 Final Report, 227 Final Report, 228 Final Report, 229 Final Report, 230 Final Report, 231 Final Report, 232 Final Report, 233 Final Report, 234 Final Report, 235 Final Report, 236 Final Report, 237 Final Report, 238 Final Report, 239 Final Report, 240 Final Report, 241 Final Report, 242 Final Report, 243 Final Report, 244 Final Report, 245 Final Report, 246 Final Report, 247 Final Report, 248 Final Report, 249 Final Report, 250 Final Report, 251 Final Report, 252 Final Report, 253 Final Report, 254 Final Report, 255 Final Report, 256 Final Report, 257 Final Report, 258 Final Report, 259 Final Report, 260 Final Report, 261 Final Report, 262 Final Report, 263 Final Report, 264 Final Report, 265 Final Report, 266 Final Report, 267 Final Report, 268 Final Report, 269 Final Report, 270 Final Report, 271 Final Report, 272 Final Report, 273 Final Report, 274 Final Report, 275 Final Report, 276 Final Report, 277 Final Report, 278 Final Report, 279 Final Report, 280 Final Report, 281 Final 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<b>Client :</b> WWA Utilities and Power Public Company Limited 111 Hsu J., Rongkaddad Road, Bangnaeng, Bangkok, Saratun Thalai (SR4)		<b>TESTING</b> No. GD006					
<b>P / I D :</b> <b>Project Name :</b> Factory Monthly <b>Project Location :</b> WWA SLZ		<b>Lot ID:</b> 25A18136 <b>Date Received :</b> May 13, 2025 <b>Date Reported :</b> May 19, 2025 <b>Report Number :</b> 20K04C-1					
<b>Sample Number :</b> 25B1228-3 <b>Sampled Date :</b> Mar 15, 2025 9:35 AM <b>Sample Description :</b> City of Chonaburi Water CT <b>Contract ID :</b> SLZ_017_2586 <b>PK# :</b> 42.76 N <b>Location :</b> Factory 2 <b>Date Sample Collection :</b> Mar 14, 2025 <b>Analysis Comments of Sample :</b> Contaminated in one amber glass bottle and three plastic bottles; sample containers comply to pretreatment - preservation standards (APHA/2291) <b>Physical Property :</b> Odorless, colorless, solid and turbid		<b>Site :</b> Sam Gajayee Industrial (Ganarui) Co., Ltd.  <i>(Signature)</i>					
Analyte	Unit	LOD	LOQ	Result	Guideline / Specification	Method	Testing Location
<b>pH Testing</b>							
SDI (5 days at 28 degrees C)	mg/L	-	2.0	14.0	3500	Standard methods for the Examination of Water and Wastewater, 24th ed., 2023, part 9202 B, part 9200 A-2	Bangkok
COD	mg/L	>	25	88	1750	Standard Methods for the Examination of Water and Wastewater, 24th ed., 2023, part 9202 B, part 9200 A-2	Bangkok
Oil & Grease		>	3	+3	120	Standard Methods for the Examination of Water and Wastewater, 24th ed., 2023, part 9202 B	Bangkok
pn (at pH= ) *		>		7.9	5.5-6.2	Standard Methods for the Examination of Water and Wastewater, 24th ed., 2023, part 9202 B	Bangkok
Temperature *	Degree C	>		30.7	143	Standard Methods for the Examination of Water and Wastewater, 24th ed., 2023, part 9202 B	Bangkok
Total Suspended Solids Direct at 105-105 degree C	mg/L	>	5	18	1200	Standard Methods for the Examination of Water and Wastewater, 24th ed., 2023, part 9202 B	Bangkok
<b>Guideline :</b> Standard of WWA Saratun Industrial Land. Maximum levels for wastewater discharging to central wastewater treatment plants. <b>Specified By :</b> Thailand Pollution Control Act >2004 + 0059 Issued : < 100 °C (End of Detection) < 10 °C (Lower Limit (LOD) of Quantitation) < 100 °C (End of Reporting) Analysis method * It can not included in version of Accredited ISO/IEC 17025 (NABL). Including it was not included in scope of accreditation ISO/IEC 17025							
<b>Technical Measurement</b>  Siriluk Pao Section Head Issued on :>2004+0059		<b>Approved by</b>  Kachai AL Resident General Manager Issued on :>2004+0004					
Note: This document is provided after the sampling and testing process. It does not contain information regarding the laboratory or the test results.							
REVISED BY Phattakornchai ML Phattakornchai SR, Phanying Pichayapitak, Ektam Jaew (Bangkok, Thailand)   TEL:0066 8 9776 3000   FAX:0066 8 9776 3001 © 2016-2025 All Rights Reserved      www.alshglobe.com      This is a limited warranty							
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## Analysis / Test Report

**Client:** WSA (Utilities and Power Public Company Limited)  
 111 Rue 7, Bangpakdi Road, Bangpakdi, Bangkok, Saraburi Thailand 35180

**Job #** :  
**Project Name** : Factory 1 Monthly  
**Project Location** : WSA (S1)

**Sample Number** : 251817-1  
**Collected Date** : Mar 13, 2023 10:20 AM  
**Sample Description** : Group 2 Wastewater 500-CT  
**Contract ID** : SL003\_2562 **Plot #** : 3 **Site** : Tam Harnwongwong Co., Ltd.  
**Location** : (note S1)  
**State Analysis Comment** : Mar 14, 2023  
**Condition of Sample** : Contained in one amber glass bottle and three plastic bottles, sample containers kept to pre-treatment - preservation standards  
**Physical Property** : UN3393/2575  
 (note S1) or other, some solid and liquid

Analysis	Unit	LOD	LOQ (LOD)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
BOD (5 days at 20 degree C)	mg/L	-	2.6	283	≤300	Standard Methods for the Examination of Water and Wastewater, 19th edn, 2012, part 2, test 5210.5	Saraburi
COD	mg/L	-	25	482	≤150	Standard Methods for the Examination of Water and Wastewater, 19th edn, 2012, part 2, test 5220.5	Saraburi
Oil & Grease	mg/L	-	3	7	≤10	Standard Methods for the Examination of Water and Wastewater, 19th edn, 2012, part 2, test 5230.5	Saraburi
pH (on site) *		-	-	4.1	5.5-9.0	Standard Methods for the Examination of Water and Wastewater, 19th edn, 2012, part 2, test 5210.5	Saraburi
Temperature *	Degree C	-	-	37.6	≤45	Standard Methods for the Examination of Water and Wastewater, 19th edn, 2012, part 2, test 5210.5	Saraburi
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	65	≤200	Standard Methods for the Examination of Water and Wastewater, 19th edn, 2012, part 2, test 5210.5	Saraburi

**Guideline:** \* Standard of WSA Saraburi Industrial Land, Maximum levels for wastewater discharging to central wastewater treatment plant.


**Sampling by:** Thermal Pumping (on-Demand) - 1/24 x 0.05E

**Issue:**  
 LOD : Limit of Detection  
 LOQ : Lower than 1/10 of limit of (quantitation) (1/10 of limit of Reporting)  
 \* Analytical method : Acute not included in report of Accreditation ISO/IEC 17025  
 Sampling is not included in report of Accreditation ISO/IEC 17025


**Lot ID:** 251817-1  
**Date Received:** Mar 13, 2023  
**Date Reported:** Mar 13, 2023  
**Report Number:** 251817-1

Page 1 of 1

**Technical Management**

  
 Sirinuk Sirinuk  
 Section Head  
 email:siruk.p@wsa.co.th

**Approved by**

  
 Kanchan Aree  
 Assistant Chief of Management  
 email:kanchan.a@wsa.co.th

\* Note: Only the results of the analysis, including preliminary, are included in this report. The results of the analysis are not included in the report.

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	<h2 style="margin: 0;">Analysis / Test Report</h2>	 <p style="margin: 0;"><b>TESTING</b> ISO 6008</p>															
<p><b>Client:</b> Uthairi Wasteline and Power Rehabilitation Company Limited          111 Main 7, Nongkhalav Road, Nongkham, Bhangkhai, Saraburi Thailand 25140</p>																	
<p><b>Project Name :</b> Factory / Monthly  <b>Project Location :</b> Uthairi, SA</p>																	
<p><b>Lot ID: 2518138</b>          Date Received: 07.07.2025          Date Reported: 11.07.2025          Report Number: 2420426-01</p>																	
<p><i>Page 1 of 1</i></p>																	
<p><b>Sample Number</b> 2518138-1  <b>Sample Date</b> 06.07.2025 11:30 AM  <b>Sample Description</b> Group 1 Waterline WWT GT  <b>Contract ID</b> SL-SD-2504 <b>Plot</b> 7A <b>Site</b> Sam Kook Thachooon Co., Ltd.  <b>Analysis Commenced</b> 06.08.2025  <b>Condition of Sample</b> Delivered in one amber glass bottles and three plastic bottles, sample containers comply to pre-filtration - preservation standards  <b>Physical Property</b> Yellow, opaque colour, solid, and non-toxic</p>																	
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Physical Property</th> <th>Unit</th> <th>LOD</th> <th>LOQ (mg/L)</th> <th>Result</th> <th>Guideline / Specification</th> <th>Method</th> <th>Testing Location</th> </tr> </thead> <tbody> <tr> <td>Water Turbidity 800-135 Area at 25 Degree C</td> <td>mg/L</td> <td>-</td> <td>2.0</td> <td>17.9</td> <td>1500</td> <td>Standard Methods for the Examination of Water and Wastewater, 22nd ed., 9100-108, 9100-109, 9100-110, 9100-111, 9100-112, 9100-113, 9100-114, 9100-115, 9100-116, 9100-117, 9100-118, 9100-119, 9100-120, 9100-121, 9100-122, 9100-123, 9100-124, 9100-125, 9100-126, 9100-127, 9100-128, 9100-129, 9100-130, 9100-131, 9100-132, 9100-133, 9100-134, 9100-135, 9100-136, 9100-137, 9100-138, 9100-139, 9100-140, 9100-141, 9100-142, 9100-143, 9100-144, 9100-145, 9100-146, 9100-147, 9100-148, 9100-149, 9100-150, 9100-151, 9100-152, 9100-153, 9100-154, 9100-155, 9100-156, 9100-157, 9100-158, 9100-159, 9100-160, 9100-161, 9100-162, 9100-163, 9100-164, 9100-165, 9100-166, 9100-167, 9100-168, 9100-169, 9100-170, 9100-171, 9100-172, 9100-173, 9100-174, 9100-175, 9100-176, 9100-177, 9100-178, 9100-179, 9100-180, 9100-181, 9100-182, 9100-183, 9100-184, 9100-185, 9100-186, 9100-187, 9100-188, 9100-189, 9100-190, 9100-191, 9100-192, 9100-193, 9100-194, 9100-195, 9100-196, 9100-197, 9100-198, 9100-199, 9100-200, 9100-201, 9100-202, 9100-203, 9100-204, 9100-205, 9100-206, 9100-207, 9100-208, 9100-209, 9100-210, 9100-211, 9100-212, 9100-213, 9100-214, 9100-215, 9100-216, 9100-217, 9100-218, 9100-219, 9100-220, 9100-221, 9100-222, 9100-223, 9100-224, 9100-225, 9100-226, 9100-227, 9100-228, 9100-229, 9100-230, 9100-231, 9100-232, 9100-233, 9100-234, 9100-235, 9100-236, 9100-237, 9100-238, 9100-239, 9100-240, 9100-241, 9100-242, 9100-243, 9100-244, 9100-245, 9100-246, 9100-247, 9100-248, 9100-249, 9100-250, 9100-251, 9100-252, 9100-253, 9100-254, 9100-255, 9100-256, 9100-257, 9100-258, 9100-259, 9100-260, 9100-261, 9100-262, 9100-263, 9100-264, 9100-265, 9100-266, 9100-267, 9100-268, 9100-269, 9100-270, 9100-271, 9100-272, 9100-273, 9100-274, 9100-275, 9100-276, 9100-277, 9100-278, 9100-279, 9100-280, 9100-281, 9100-282, 9100-283, 9100-284, 9100-285, 9100-286, 9100-287, 9100-288, 9100-289, 9100-290, 9100-291, 9100-292, 9100-293, 9100-294, 9100-295, 9100-296, 9100-297, 9100-298, 9100-299, 9100-300, 9100-301, 9100-302, 9100-303, 9100-304, 9100-305, 9100-306, 9100-307, 9100-308, 9100-309, 9100-310, 9100-311, 9100-312, 9100-313, 9100-314, 9100-315, 9100-316, 9100-317, 9100-318, 9100-319, 9100-320, 9100-321, 9100-322, 9100-323, 9100-324, 9100-325, 9100-326, 9100-327, 9100-328, 9100-329, 9100-330, 9100-331, 9100-332, 9100-333, 9100-334, 9100-335, 9100-336, 9100-337, 9100-338, 9100-339, 9100-340, 9100-341, 9100-342, 9100-343, 9100-344, 9100-345, 9100-346, 9100-347, 9100-348, 9100-349, 9100-350, 9100-351, 9100-352, 9100-353, 9100-354, 9100-355, 9100-356, 9100-357, 9100-358, 9100-359, 9100-360, 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ALS logo and analysis report header for WWA Utilities and Power Public Company Limited. The report is dated 11/11/2025 and includes a table of test results for various parameters like pH, temperature, and suspended solids. It also features a signature of Siriluk P. and a QR code.

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# Analysis / Test Report



**Client** WMA Utilities and Power Public Company Limited  
 111 Rue 7, Nongkhalang Road, Nongkhalang, Nongkhalang, Sarakun Thailand 91240

**P/O #** \_\_\_\_\_  
**Project Name** Factory 1 Moribity  
**Project Location** NAWA 753

**TESTING**  
 NO.0008

**Lot ID: 2518148**  
 Date Received : 16 Jul 2025  
 Date Reported : 16 Jul 2025  
 Report Number : 3243944-0

Page 1 of 1

Sample Number	2518148-1	
Sample Date	Mon 12, 2025 1:25 PM	
Sample Description	Group 2 Wastewater WWS-CT	
Control ID	SL_076_2587	Phi 133-134
Date Analysis Commenced	Mon 13, 2025	
Condition of Sample	Contained in one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation abilities	
Physical Property	Liquid, at 44 °C, opaque, and turbid	

**Site** WMA Corporation Public Limited Company

Analyte	Unit	LOD	LOQ	Result	Guidelines / Specification	Method	Testing Location
<b>Water Testing</b>							
BOD (5 days at 20 degree C)	mg/L	—	2.0	83.6	1500	Standard Methods for the Examination of water and wastewater, APHA, 1995, 1997, 2005, 2012, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025	Saragun
COD	mg/L	—	25	212	6750	Standard Methods for the Examination of water and wastewater, APHA, 1995, 1997, 2005, 2012, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025	Saragun
Oil & Grease	mg/L	—	3	<3	117	Standard Methods for the Examination of water and wastewater, APHA, 1995, 1997, 2005, 2012, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025	Saragun
pH (in air) °C	—	—	—	7.8	5.5-6.4	Standard Methods for the Examination of water and wastewater, APHA, 1995, 1997, 2005, 2012, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025	Saragun
Temperature °C	—	—	—	35.2	143	Standard Methods for the Examination of water and wastewater, APHA, 1995, 1997, 2005, 2012, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025	Saragun
Total Suspended Solids dried at 103-105 degree C	mg/L	—	5	52	6300	Standard Methods for the Examination of water and wastewater, APHA, 1995, 1997, 2005, 2012, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025	Saragun

**Guidelines** Standard of WMA Sarakun Industrial Land. Maximum levels for wastewater discharge to central wastewater treatment plant.

**Sampling by** Channasorn Sornvongwong v-2204-0240


**Remark** \_\_\_\_\_

\_\_\_\_\_ (Date of Detection)

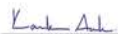
\_\_\_\_\_ (Owner Rep. C/2 of 4 of Quantitative) (100 % of Reporting)

\_\_\_\_\_ (Analytical method) "As recd and included in scope of Accreditation ISO/IEC 17025." Sampling is not included in scope of accreditation ISO/IEC 17025.

**Technical Management**

  
 Channasorn Sornvongwong  
 Sarakun v-2204-0240

**Approved by**

  
 Kanyasorn Aue  
 Sarakun General Manager  
 v-2204-0008

Notes: (1) This report is only valid for the testing of the analyte(s) indicated. (2) All analytical results are subject to the limitations of the Accredited Method.

REFERENCE: ISO 17025:2017, Part 6:2017, Part 7:2017, Part 8:2017, Part 9:2017, Part 10:2017, Part 11:2017, Part 12:2017, Part 13:2017, Part 14:2017, Part 15:2017, Part 16:2017, Part 17:2017, Part 18:2017, Part 19:2017, Part 20:2017, Part 21:2017, Part 22:2017, Part 23:2017, Part 24:2017, Part 25:2017, Part 26:2017, Part 27:2017, Part 28:2017, Part 29:2017, Part 30:2017, Part 31:2017, Part 32:2017, Part 33:2017, Part 34:2017, Part 35:2017, Part 36:2017, Part 37:2017, Part 38:2017, Part 39:2017, Part 40:2017, Part 41:2017, Part 42:2017, Part 43:2017, Part 44:2017, Part 45:2017, Part 46:2017, Part 47:2017, Part 48:2017, Part 49:2017, Part 50:2017, Part 51:2017, Part 52:2017, Part 53:2017, Part 54:2017, Part 55:2017, Part 56:2017, Part 57:2017, Part 58:2017, Part 59:2017, Part 60:2017, Part 61:2017, Part 62:2017, Part 63:2017, Part 64:2017, Part 65:2017, Part 66:2017, Part 67:2017, Part 68:2017, Part 69:2017, Part 70:2017, Part 71:2017, Part 72:2017, Part 73:2017, Part 74:2017, Part 75:2017, Part 76:2017, Part 77:2017, Part 78:2017, Part 79:2017, Part 80:2017, Part 81:2017, Part 82:2017, Part 83:2017, Part 84:2017, Part 85:2017, Part 86:2017, Part 87:2017, Part 88:2017, Part 89:2017, Part 90:2017, Part 91:2017, Part 92:2017, Part 93:2017, Part 94:2017, Part 95:2017, Part 96:2017, Part 97:2017, Part 98:2017, Part 99:2017, Part 100:2017, Part 101:2017, Part 102:2017, Part 103:2017, Part 104:2017, Part 105:2017, Part 106:2017, Part 107:2017, Part 108:2017, Part 109:2017, Part 110:2017, Part 111:2017, Part 112:2017, Part 113:2017, Part 114:2017, Part 115:2017, Part 116:2017, Part 117:2017, Part 118:2017, Part 119:2017, Part 120:2017, Part 121:2017, Part 122:2017, Part 123:2017, Part 124:2017, Part 125:2017, Part 126:2017, Part 127:2017, Part 128:2017, Part 129:2017, Part 130:2017, Part 131:2017, Part 132:2017, Part 133:2017, Part 134:2017, Part 135:2017, Part 136:2017, Part 137:2017, Part 138:2017, Part 139:2017, Part 140:2017, Part 141:2017, Part 142:2017, Part 143:2017, Part 144:2017, Part 145:2017, Part 146:2017, Part 147:2017, Part 148:2017, Part 149:2017, Part 150:2017, Part 151:2017, Part 152:2017, Part 153:2017, Part 154:2017, Part 155:2017, Part 156:2017, Part 157:2017, Part 158:2017, Part 159:20

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**ALS**  
ANALYTICAL SERVICES LABORATORY

## Analysis / Test Report



TESTING  
No. 05059

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**Client:** WPA Utilities and Power Public Company Limited  
111 Rue 9, Nongkhalang Road, Nongkhalang, Saraburi Thailand 35140

**P/O ID:** \_\_\_\_\_

**Project Name:** Factory 1 Priority  
**Project Location:** Phra Sak, Sakon Nakhon, Sakon Nakhon, Thailand

**Sample Number:** 252732-4  
**Sampled Date:** 16 Oct. 2023 9:40 AM  
**Sample Description:** Group 2 Wastewater WTS-C  
**Contract ID:** 2512 2504 **Phd:** 125  
**Date Analysis Commenced:** Apr. 19, 2025  
**Location of Sample:** 204M252732-4  
**Notes:** Collected in one amber glass bottle and three plastic bottles. Sample containers comply to pre-treatment - preservation standards.  
Wastewater, a lot of labor, some solid and a lot of turbid

**TESTING**  
**Lot ID:** 2527152  
**Received Date:** Apr. 02, 2025  
**Date Reported:** Apr. 09, 2025  
**Report Number:** 20250701

Page 1 of 1

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**Physical Properties**

Analyte	Unit	LOD	LOQ	Result	Conclusion / Specification	Method	Testing Location
<b>Water Testing</b>							
SDI (15 @ 25 degree C)	mg/L	-	2.6	38.3	>500	Standard Methods for the Examination of Water and Wastewater, APHA, 20th ed., 2012, part 1201-A, part 4001, C-2	Saraburi
COO	mg/L	-	25	115	>750	Standard Methods for the Examination of Water and Wastewater, APHA, 20th ed., 2012, part 1202-D	Saraburi
Oil & Grease	mg/L	-	3	<3	<10	Standard Methods for the Examination of Water and Wastewater, APHA, 20th ed., 2012, part 1201-A	Saraburi
pH (at site) *	-	-	-	7.8	5.5-8.0	Standard Methods for the Examination of Water and Wastewater, APHA, 20th ed., 2012, part 4500 - H-3	Saraburi
Temperature *	degree C	-	-	31.9	1-43	Standard Methods for the Examination of Water and Wastewater, APHA, 20th ed., 2012, part 2530-B	Saraburi
Total Suspended Solids (Total at 103-105 degree C)	mg/L	-	5	48	<200	Standard Methods for the Examination of Water and Wastewater, APHA, 20th ed., 2012, part 2540-D	Saraburi


**Remarks:** Standard of WPA Service Industrial Lab. Maximum levels for wastewater discharging to central wastewater treatment plant.

**Sampling by:** Saraburi Provincial Pollution Control Unit - 229-4-0071


**Notes:**  
 \*LOD = Limit of Detection  
 \*LOQ = Lower Limit of Quantification (LOQ = 10x of Reporting)  
 Analytical method: "as not relevant in scope of accreditation ISO/IEC 17025"  
 Sampling is not included in scope of accreditation ISO/IEC 17025

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**Technical Measurement**

  
 Siriluk P.  
 Saraburi, Saraburi  
 Accredited on 20th-01-2023

**Approved by:**

  
 Kanchana A.  
 Saraburi General Manager  
 Accredited on 20th-01-2024

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Head office is located in Saraburi province. For pricing and conditions of sale, see analytical certificate and/or invoice. For a list of services and locations, please refer to the analytical certificate and/or invoice.



REFERENCE: WPA Utilities and Power Public Company Ltd., Phrayang Phrayakulthai, Khao Suan Kwang, Saraburi Thailand | PHONE: 081-978-7700 | FAX: 081-978-7701

Website: [www.alsglobal.com](http://www.alsglobal.com)

1-800-555-6868



**HEALTHY SOLUTIONS FOR THE ENVIRONMENT**

03/000001-01

<b>Client :</b> WRI Utilities and Power Public Company Limited 111 Hsu-7, Bangkokskad Road, Bangkok, Bangkok, Saranath Thailand (24)				<b>Doc ID:</b> 2527-188 Date Issued: April 15, 2023			
<b>Project Name :</b> Factory 1 Humidity Project Location: WPA 52				<b>Date Reported :</b> April 15, 2023 <b>Report Number:</b> 3204050-1			
Page 1 of 1							
<b>Sample Number</b>	2527188-1						
<b>Sample Date</b>	Apr 04, 2023 11:35 AM						
<b>Sample Description</b>	On-ep 2 Watermeter Unit						
<b>Contract ID</b>	5218_2524						
<b>Site Analysis Comments</b>	Plant # 33						
<b>Condition of Sample</b>	Contained in one amber glass bottle and three plastic bottles, sample containers comply to: preservation: plastic bottles						
<b>Physical Property</b>	Yellow, some odour, mild and not turbid						
<b>Analyte</b>	Unit	LOD	LOD	Result	Guideline / Spec/Requirement	Method	Testing Location
<b>Water Turbidity</b> ISO 7045-2 at 25 degrees C	mg/L	—	2.2	<2.2	3500	Standard Method for the Examination of water and wastewater, APHA, 1995, 1998, 2005, 2012, 2013, part 9212-1, part 9201-1-2-1	Sarangk
<b>COO</b>	mg/L	—	25	<25	4750	Standard Method for the Examination of water and wastewater, APHA, 1995, 1998, 2005, 2012, part 9202-1	Sarangk
<b>Oil &amp; Grease</b>	mg/L	—	3	<3	110	Standard Method for the Examination of water and wastewater, APHA, 1995, 1998, 2005, 2012, part 9202-1	Sarangk
<b>pH (in water)</b>	—	—	—	7.8	5.5-9.0	Standard Method for the Examination of water and wastewater, APHA, 1995, 1998, 2005, 2012, part 9202-1	Sarangk
<b>Temperature *</b>	Degree C	—	—	33.9	14-35	Standard Method for the Examination of water and wastewater, APHA, 1995, 1998, 2005, 2012, part 1910-1	Sarangk
<b>Total Dissolved solids Dried at 180 Degree-C</b>	mg/L	—	5	1140	35000	Standard Method for the Examination of water and wastewater, APHA, 1995, 1998, 2005, 2012, part 1910-1	Sarangk
<b>Total Suspended Solids Dried at 203-205 degree-C</b>	mg/L	—	8	7	4200	Standard Method for the Examination of water and wastewater, APHA, 1995, 1998, 2005, 2012, part 2540-1	Sarangk
<b>Guideline :</b> Standard of WPA Saranath Industrial Land, Maximum levels for wastewater treatment by central wastewater treatment plant. <b>Sampling by :</b> Terence Pongpan Visakachai v-2504-0556							
<b>Notes:</b> 1) 100 ml of Collection 2) 100 ml of Sample 3) 100 ml of Sample (100 ml of Sample) 4) Analytical method 1/100 ml of Sample is used for Accreditation ISO/IEC 17025							
<b>Technical Management</b>  Sirinuk P. Saranath Head 2527188-1 (2023-05-23)		<b>Approved by</b>  Kulkarni Ansh Assistant General Manager 2527188-1 (2023-05-23)					
Note: This is a copy of the original report. The original report is the only valid version. The original report is the only valid version. The original report is the only valid version.							



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Client : WMA Utilities and Power Public Company Limited						Lab No: 2527141	
111 Wto 7, Bangkang Road, Bangkhang, Bangkok, Samutth Thailand 10240						Report Number : 320939-3	
Project Name : Factory 1 Monthly						Page 1 of 1	
Sample Location : WMA SD							
Sample Number	2527141-1						
Sample Date	Apr 02, 2023 10:35 AM						
Sample Description	Grp 2 Wastewater WOC-CT						
Customer ID	WMA_08_2840		Plant	Grp 2		Site	SEI SINCER (THAILAND)_CO.,LTD.
Analysis Method	AP-42, 9103, 9104, 9105, 9106, 9107, 9108, 9109, 9110, 9111, 9112, 9113, 9114, 9115, 9116, 9117, 9118, 9119, 9120, 9121, 9122, 9123, 9124, 9125, 9126, 9127, 9128, 9129, 9130, 9131, 9132, 9133, 9134, 9135, 9136, 9137, 9138, 9139, 9140, 9141, 9142, 9143, 9144, 9145, 9146, 9147, 9148, 9149, 9150, 9151, 9152, 9153, 9154, 9155, 9156, 9157, 9158, 9159, 9160, 9161, 9162, 9163, 9164, 9165, 9166, 9167, 9168, 9169, 9170, 9171, 9172, 9173, 9174, 9175, 9176, 9177, 9178, 9179, 9180, 9181, 9182, 9183, 9184, 9185, 9186, 9187, 9188, 9189, 9190, 9191, 9192, 9193, 9194, 9195, 9196, 9197, 9198, 9199, 9200, 9201, 9202, 9203, 9204, 9205, 9206, 9207, 9208, 9209, 9210, 9211, 9212, 9213, 9214, 9215, 9216, 9217, 9218, 9219, 9220, 9221, 9222, 9223, 9224, 9225, 9226, 9227, 9228, 9229, 9230, 9231, 9232, 9233, 9234, 9235, 9236, 9237, 9238, 9239, 9240, 9241, 9242, 9243, 9244, 9245, 9246, 9247, 9248, 9249, 9250, 9251, 9252, 9253, 9254, 9255, 9256, 9257, 9258, 9259, 9260, 9261, 9262, 9263, 9264, 9265, 9266, 9267, 9268, 9269, 9270, 9271, 9272, 9273, 9274, 9275, 9276, 9277, 9278, 9279, 9280, 9281, 9282, 9283, 9284, 9285, 9286, 9287, 9288, 9289, 9290, 9291, 9292, 9293, 9294, 9295, 9296, 9297, 9298, 9299, 9300, 9301, 9302, 9303, 9304, 9305, 9306, 9307, 9308, 9309, 9310, 9311, 9312, 9313, 9314, 9315, 9316, 9317, 9318, 9319, 9320, 9321, 9322, 9323, 9324, 9325, 9326, 9327, 9328, 9329, 9330, 9331, 9332, 9333, 9334, 9335, 9336, 9337, 9338, 9339, 9340, 9341, 9342, 9343, 9344, 9345, 9346, 9347, 9348, 9349, 9350, 9351, 9352, 9353, 9354, 9355, 9356, 9357, 9358, 9359, 9360, 9361, 9362, 9363, 9364, 9365, 9366, 9367, 9368, 9369, 9370, 9371, 9372, 9373, 9374, 9375, 9376, 9377, 9378, 9379, 9380, 9381, 9382, 9383, 9384, 9385, 9386, 9387, 9388, 9389, 9390, 9391, 9392, 9393, 9394, 9395, 9396, 9397, 9398, 9399, 9400, 9401, 9402, 9403, 9404, 9405, 9406, 9407, 9408, 9409, 9410, 9411, 9412, 9413, 9414, 9415, 9416, 9417, 9418, 9419, 9420, 9421, 9422, 9423, 9424, 9425, 9426, 9427, 9428, 9429, 9430, 9431, 9432, 9433, 9434, 9435, 9436, 9437, 9438, 9439, 9440, 9441, 9442, 9443, 9444, 9445, 9446, 9447, 9448, 9449, 9450, 9451, 9452, 9453, 9454, 9455, 9456, 9457, 9458, 9459, 9460, 9461, 9462, 9463, 9464, 9465, 9466, 9467, 9468, 9469, 9470, 9471, 9472, 9473, 9474, 9475, 9476, 9477, 9478, 9479, 9480, 9481, 9482, 9483, 9484, 9485, 9486, 9487, 9488, 9489, 9490, 9491, 9492, 9493, 9494, 9495, 9496, 9497, 9498, 9499, 9500, 9501, 9502, 9503, 9504, 9505, 9506, 9507, 9508, 9509, 9510, 9511, 9512, 9513, 9514, 9515, 9516, 9517, 9518, 9519, 9520, 9521, 9522, 9523, 9524, 9525, 9526, 9527, 9528, 9529, 9530, 9531, 9532, 9533, 9534, 9535, 9536, 9537, 9538, 9539, 9540, 9541, 9542, 9543, 9544, 9545, 9546, 9547, 9548, 9549, 9550, 9551, 9552, 9553, 9554, 9555, 9556, 9557, 9558, 9559, 9560, 9561, 9562, 9563, 9564, 9565, 9566, 9567, 9568, 9569, 9570, 9571, 9572, 9573, 9574, 9575, 9576, 9577, 9578, 9579, 9580, 9581, 9582, 9583, 9584, 9585, 9586, 9587, 9588, 9589, 9590, 9591, 9592, 9593, 9594, 9595, 9596, 9597, 9598, 9599, 9600, 9601, 9602, 9603, 9604, 9605, 9606, 9607, 9608, 9609, 9610, 9611, 9612, 9613, 9614, 9615, 9616, 9617, 9618, 9619, 9620, 9621, 9622, 9623, 9624, 9625, 9626, 9627, 9628, 9629, 9630, 9631, 9632, 9633, 9634, 9635, 9636, 9637, 9638, 9639, 9640, 9641, 9642, 9643, 9644, 9645, 9646, 9647, 9648, 9649, 9650, 9651, 9652, 9653, 9654, 9655, 9656, 9657, 9658, 9659, 9660, 9661, 9662, 9663, 9664, 9665, 9666, 9667, 9668, 9669, 9670, 9671, 9672, 9673, 9674, 9675, 9676, 9677, 9678, 9679, 9680, 9681, 9682, 9683, 9684, 9685, 9686, 9687, 9688, 9689, 9690, 9691, 9692, 9693, 9694, 9695, 9696, 9697, 9698, 9699, 9700, 9701, 9702, 9703, 9704, 9705, 9706, 9707, 9708, 9709, 9710, 9711, 9712, 9						

WSP Utilities and Power Public Company Limited						Ref: 2577182	
1111 Th 9, Nongkhal Road, Nongkhal, Samnang, Samnang Thailand 2140						Date Received: Ap 02, 2023	
Project Name : Factory Monthly						Date Reported: Ap 09, 2023	
Project Location : WSP GC						Report Number : DS20030-4	
						Page 2 of 3	
Sample Number	DS1701-1						
Sample Date	Ap 02, 2023 12:00 AM						
Sample Description	Group 2 Wastewater WFT GC						
Contract ID	SIS_01234						
Contract Date	Ap 03, 2021						
Location of Sample	Conformed to one plant grade bottle and three plastic bottles, sample containers subject to pretreatment : preservation standards						
Physical Property	Color, Odor, Turbidity, Volume, pH, and not turbid						
Analyte	Unit	LOD	LOQ	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2.0	22.3	1500	Standard for the Examination of water and Wastewater, APHA, 1995a & WFT 20th ed., 2023, part 1920 & part 6000 - C-2	Samnang
COD	mg/L	-	25	130	6750	Standard for the Examination of water and Wastewater, APHA, 1995a & WFT 20th ed., 2023, part 1920 & part 6000 - C-2	Samnang
Oil & Grease	mg/L	-	3	4	130	Standard for the Examination of water and Wastewater, APHA, 1995a & WFT 20th ed., 2023, part 1920 & part 6000 - C-2	Samnang
pH (at 25 °C)	-	-	-	8.4	5.5-9.0	Standard for the Examination of water and Wastewater, APHA, 1995a & WFT 20th ed., 2023, part 4500 - 1 (B)	Samnang
Temperature °	Degree C	-	-	36.8	16-25	Standard for the Examination of water and Wastewater, APHA, 1995a & WFT 20th ed., 2023 and 1920 - 1 (B)	Samnang
Total Suspended Solids dried at 103-105 degree C	mg/L	-	5	30	4200	Standard for the Examination of water and Wastewater, APHA, 1995a & WFT 20th ed., 2023 and 1920 - 1 (B)	Samnang
<b>Guideline :</b> Standard of 200 Samnang Industrial Land, Maximum limits for wastewater discharging to central wastewater treatment plant.							
<b>Sampling By :</b> Nongkhal Samnang (b) 1004-0123							
<b>Result :</b> 1) 100% : Limit of Detection 2) 100% : Limit of 100 (4 of 4 quantities) : 100 (4 of 4 quantities) Analytical method : None not included in scope of Accreditation ISO 17025 Sampling : not included in scope of Accreditation ISO 17025							
Technical Manager  Sarik Sorn Head of Office at WSP GC				Approved by  Kulkarni Anand Assistant General Manager Head of Office at WSP GC			


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Client: WMA Utilities and Power Public Company Limited 111 Hite, 7, Bangkapi Road, Bangkapi, Bangkok, Samsat Thailand 10240						<b>Ref: 00-008</b> <b>Lab ID: 2527110-1</b> <b>Order Received: 14 July 2018</b> <b>Report Received: 16 July 2018</b> <b>Report Number: 2526301-1</b>	
Project Name: Factory 1 Monthly						Page 1 of 1	
Project Location: Factory 1 Monthly							
Sample Number	2527110-1						
Sample Date	Apr 03, 2018 12:25 AM						
Sample Description	Group 2 Wastewater WOCCT						
Contact ID	401_ML_2554						
Client Address	Plot 47						
Site Analysis/Compliance	Site: Rawwater Pulp & Paper Company Limited (342)						
Condition of Sample	Contained in one plastic bag and three plastic bottles, sample containers comply to pre-treatment - preservation standards (CAHA/USEPA)						
Physical Property	Yellow, white odor, solid and turbid						
Analyte	Unit	LOD	LOQ	Result	Guideline / Specification	Method	Testing Location
Water Testing 800-15 days at 25 degree C	mg/L	+	2.0	13.7	5500	Standard Methods for the Examination of water and wastewater, 19th edition, 1995, part 9121.8, 9121.8, 9121.8, 9121.8	Bangkok
COD	mg/L	+	25	63	5750	Standard Methods for the Examination of water and wastewater, 19th edition, 1995, part 9121.8, 9121.8, 9121.8, 9121.8	Bangkok
Oil & Grease	mg/L	+	3	3	410	Standard Methods for the Examination of water and wastewater, 19th edition, 1995, part 9121.8, 9121.8, 9121.8, 9121.8	Bangkok
pH (in situ)	+	+	+	7.1	5.5-9.0	Standard Methods for the Examination of water and wastewater, 19th edition, 1995, part 9121.8, 9121.8, 9121.8, 9121.8	Bangkok
Temperature	Degree C	+	+	32.2	14-25	Standard Methods for the Examination of water and wastewater, 19th edition, 1995, part 9121.8, 9121.8, 9121.8, 9121.8	Bangkok
Total Suspended Solids (dried at 103-105 degree C)	mg/L	+	5	14	4200	Standard Methods for the Examination of water and wastewater, 19th edition, 1995, part 9121.8, 9121.8, 9121.8, 9121.8	Bangkok
<b>Comments:</b> Standard of WWA Sanpak Industrial Land, Maximum levels for wastewater discharging to central wastewater treatment plant. <b>Sampling By:</b> WMA Sanpak Industrial Land, 2014-08-07							
<b>Notes:</b> 1. "C" - Limit of Detection 2. "L" - Lower Limit of Quantification (LOQ) is limit of Reporting Analytical method "X" was not included in a list of Accredited Methods (ISO 17025). Sampling is not included in a list of Accredited Methods (ISO 17025)							
Technical Management		 Nalin Sornsupvan Supervisor 02-04-00000		Approved By  Kanchana Ait Assistant General Manager 02-04-00000			
Please print a hardcopy of this document, sign and stamp, and fax to the designated person in the laboratory.							

WTL Utilities and Power Public Company Limited 111/11 Th 7, Nongkhalad Road, Nongkhalang, Nongkhal, Sarawak Thailand 92410					<b>Lab No: 2573111</b> <b>Date Received: Apr 17, 2023</b> <b>Report Number: SS203014-2</b>		
<b>Project Name:</b> Factory Monthly <b>Project Location:</b> WTL SD							
<b>Sample Number:</b>	257311.1						
<b>Sample Date:</b>	Apr 07, 2023 8:40 AM						
<b>Sample Description:</b>	Group 2 Wastewater Wt-CF						
<b>Contract ID:</b>	SL 091_2534						
<b>Tested By:</b>	April 17, 2023						
<b>Condition of Sample:</b>	Returned to us on either glass bottles and three plastic bottles, sample containers comply to pretreatment : preservation standards (WTL026274) Volume, some color, odor and no turbid						
<b>Physical Property</b>							
<b>Analyte</b>	<b>Unit</b>	<b>LOD</b>	<b>LOQ</b>	<b>Result</b>	<b>Guideline / Specification</b>	<b>Passing Limit</b>	
<b>Biochemical</b>							
<b>Water Testing</b>							
<b>Water (by 20 to 25 degree C)</b>	mg/L	-	2.8	2.7	<150	Standard method for the Examination of water and wastewater, APHA, 19th ed. 2017 24th ed., 2023, part 920.8 and part 920.1- 0.15	Satisfactory
<b>COD</b>	mg/L	-	25	28	<750	Standard method for the Examination of water and wastewater, APHA, 19th ed. 2017 24th ed., 2023, part 5210.2	Satisfactory
<b>Oil &amp; Grease</b>	mg/L	-	3	<3	<10	Standard method for the Examination of water and wastewater, APHA, 19th ed. 2017 24th ed., 2023, part 5210.3	Satisfactory
<b>pH (on site) *</b>		-	-	7.2	5.5-9.5	Standard method for the Examination of water and wastewater, APHA, 19th ed. 2017 24th ed., 2023, part 4500.1	Satisfactory
<b>Temperature *</b>	Degree C	-	-	28.3	<45	Standard method for the Examination of water and wastewater, APHA, 19th ed. 2017 24th ed., 2023, part 2510.2	Satisfactory
<b>Total Suspended Solids (dry at 125-135 degree C)</b>	mg/L	-	5	10	<100	Standard method for the Examination of water and wastewater, APHA, 19th ed. 2017 24th ed., 2023, part 2540.2	Satisfactory
<b>Guideline:</b> Standard of steel Sarawak Industrial Land, Maximum limits for wastewater discharging to central wastewater treatment plant.							
<b>Sampling By:</b> Sarawak Petroleum, exclusion=1204-0075							
<b>Remark:</b>	1. * Limit of Detection 2. * Limit below 1/10 of (Guideline) : 1/10 x 50 (part of Sampling) 3. * Limit below "value not included in range of acceptance (BIO-BC)" Sampling not included in range of acceptance (BIO-BC) : 1/10						
<b>Technical Management</b> <div style="display: flex; justify-content: space-between; align-items: center;"> <div>             Nur Hani Supriyanti            Supervisor            (08240047-0-3204-0000)         </div> <div> <b>Approved by:</b>             Kankana Das            Assistant General Manager            (08240047-0-3204-0000)         </div> </div>							


Client : WMA Holdings and Power Public Company Limited 111 Rte 7, Bangkhalang Road, Bangkok, Bangkok, Saraburi Thailand 38140		Ref No: 2527117 Date Recd : 25/27/17 Date Recd : 25/27/17 Report Number : 353809-4					
Project Name : Factory / Monthly Project Location : WMA SE		Title : 1					
Sample Number	2527117-1						
Sample Date	04/11/2017 8:40 AM						
Sample Description	Group 2 Wastewater WWT CT						
Contract ID	35, 40, 47, 2556	Unit	130				
Client	Sino Biochem (Thailand) Co., Ltd.						
Test Description	Container 1 one amber glass bottle and three plastic bottles, sample containers comply to pretestmethod - generation standards						
Location of Sample	(SHAHEJIAO)						
Physical Property	Solids, volatile matter, total and residual						
Analyte	Unit	LOD	LOQ	Revised	Generation / Specification	Method	Testing Location
Water Testing COD (5 days at 20 degrees C)	mg/L	-	2.0	16.0	<300	Standard method for the Examination of water and wastewater, 19th ed. 1995, part 9200-103, part 9200-103.1	Singapore
COD	mg/L	-	25	50	<150	Standard method for the Examination of water and wastewater, 19th ed. 1995, part 9200-103, part 9200-103.1	Singapore
Oil & Grease	mg/L	-	3	<3	<10	Standard method for the Examination of water and wastewater, 19th ed. 1995, part 9200-103, part 9200-103.1	Singapore
pH (at 25°C)	-	-	-	-	5.5-9.0	Standard method for the Examination of water and wastewater, 19th ed. 1995, part 9200-103, part 9200-103.1	Singapore
Temperature °	Degree C	-	-	25.1	145	Standard method for the Examination of water and wastewater, 19th ed. 1995, part 9200-103, part 9200-103.1	Singapore
Total Suspended Solids Direct at 100-200 Degrees C	mg/L	-	-	5	<200	Standard method for the Examination of water and wastewater, 19th ed. 1995, part 9200-103, part 9200-103.1	Singapore
<p><b>Remarks:</b> Standard of WMA Saraburi Industrial Ltd, Maximum values for wastewater discharging to central wastewater treatment plant.</p> <p><b>Sampling By:</b> Channarom Sornwattanasakul + P24-01649</p> <p><b>Notes:</b></p> <ul style="list-style-type: none"> <li>1. LOD - Limit of Detection</li> <li>2. LOQ - Limit of Quantitation</li> <li>3. LOU - Limit of Usability</li> <li>4. Sampled material "As is" not included in scope of Accreditation ISO 15189, 15003, 15005, 15015, 15017, 15020, 15021, 15022, 15023, 15024, 15025, 15026, 15027, 15028, 15029, 15030, 15031, 15032, 15033, 15034, 15035, 15036, 15037, 15038, 15039, 15040, 15041, 15042, 15043, 15044, 15045, 15046, 15047, 15048, 15049, 15050, 15051, 15052, 15053, 15054, 15055, 15056, 15057, 15058, 15059, 15060, 15061, 15062, 15063, 15064, 15065, 15066, 15067, 15068, 15069, 15070, 15071, 15072, 15073, 15074, 15075, 15076, 15077, 15078, 15079, 15080, 15081, 15082, 15083, 15084, 15085, 15086, 15087, 15088, 15089, 15090, 15091, 15092, 15093, 15094, 15095, 15096, 15097, 15098, 15099, 15100, 15101, 15102, 15103, 15104, 15105, 15106, 15107, 15108, 15109, 15110, 15111, 15112, 15113, 15114, 15115, 15116, 15117, 15118, 15119, 15120, 15121, 15122, 15123, 15124, 15125, 15126, 15127, 15128, 15129, 15130, 15131, 15132, 15133, 15134, 15135, 15136, 15137, 15138, 15139, 15140, 15141, 15142, 15143, 15144, 15145, 15146, 15147, 15148, 15149, 15150, 15151, 15152, 15153, 15154, 15155, 15156, 15157, 15158, 15159, 15160, 15161, 15162, 15163, 15164, 15165, 15166, 15167, 15168, 15169, 15170, 15171, 15172, 15173, 15174, 15175, 15176, 15177, 15178, 15179, 15180, 15181, 15182, 15183, 15184, 15185, 15186, 15187, 15188, 15189, 15190, 15191, 15192, 15193, 15194, 15195, 15196, 15197, 15198, 15199, 15200, 15201, 15202, 15203, 15204, 15205, 15206, 15207, 15208, 15209, 15210, 15211, 15212, 15213, 15214, 15215, 15216, 15217, 15218, 15219, 15220, 15221, 15222, 15223, 15224, 15225, 15226, 15227, 15228, 15229, 15230, 15231, 15232, 15233, 15234, 15235, 15236, 15237, 15238, 15239, 15240, 15241, 15242, 15243, 15244, 15245, 15246, 15247, 15248, 15249, 15250, 15251, 15252, 15253, 15254, 15255, 15256, 15257, 15258, 15259, 15260, 15261, 15262, 15263, 15264, 15265, 15266, 15267, 15268, 15269, 15270, 15271, 15272, 15273, 15274, 15275, 15276, 15277, 15278, 15279, 15280, 15281, 15282, 15283, 15284, 15285, 15286, 15287, 15288, 15289, 15290, 15291, 15292, 15293, 15294, 15295, 15296, 15297, 15298, 15299, 15300, 15301, 15302, 15303, 15304, 15305, 15306, 15307, 15308, 15309, 15310, 15311, 15312, 15313, 15314, 15315, 15316, 15317, 15318, 15319, 15320, 15321, 15322, 15323, 15324, 15325, 15326, 15327, 15328, 15329, 15330, 15331, 15332, 15333, 15334, 15335, 15336, 15337, 15338, 15339, 15340, 15341, 15342, 15343, 15344, 15345, 15346, 15347, 15348, 15349, 15350, 15351, 15352, 15353, 15354, 15355, 15356, 15357, 15358, 15359, 15360, 15361, 15362, 15363, 15364, 15365, 15366, 15367, 15368, 15369, 15370, 15371, 15372, 15373, 15374, 15375, 15376, 15377, 15378, 15379, 15380, 15381, 15382, 15383, 15384, 15385, 15386, 15387, 15388, 15389, 15390, 15391, 15392, 15</li></ul>							





**ALS**  
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LABORATORIES

## Analysis / Test Report



TESTING  
NO.0009

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**Client:** WSA (Utilities and Power Public Company Limited)  
111 Moo 7, Rangsitpattana Road, Rangsitpattana, Rangsit, Thailand 10540

**P/P ID:** \_\_\_\_\_

**Project Name / Factory / Plant:** \_\_\_\_\_

**Project Location:** 0102, 102

**Sample Number:** 20250701

**Received Date:** Apr 02, 2023 11:10 AM

**Sample Description:** Group 2 Wastewater WBS-CF  
(WBS-CF/SS/PP)

**Contract ID:** 102, 102, 2024      **Phet:** 10, 11      **Site:** SOG Roofing Co., Ltd

**Date Analysis Commenced:** Apr 05, 2023

**Condition of Sample:** Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pre-treatment – preservation standards (SAS-04/05/2016).

**Physical Property:** Liquid, some solid, a bit of solid and some turbid

**TESTING**  
NO.0009

**Lot ID:** 2527002

**Date Issued:** Apr 02, 2023

**Date Reported:** Apr 16, 2023

**Report Number:** 20230701

Page 1 of 1

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Analyte	Unit	LOD	LOQ	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
SSD (1 Gram at 20 Degree C)	mg/L	-	1.0	< 0.0	< 500	Standard method for the Examination of water and Wastewater <i>APHA, 2005</i> & <i>ISO, 2003</i> , 2012, part 1010 & part 4000 (C)	Rangsit
COD	mg/L	-	25	< 25	< 270	Standard method for the Examination of Water and Wastewater <i>APHA, 2005</i> & <i>ISO, 2003</i> , 2012, part 1020 & part 4000 (C)	Rangsit
Oil & Grease	mg/L	-	3	< 3	< 10	Standard method for the Examination of Water and Wastewater <i>APHA, 2005</i> & <i>ISO, 2003</i> , 2012, part 1030 & part 4000 (C)	Rangsit
pH (on site) °		-	-	7.5	6.5-9.0	Standard method for the Examination of Water and Wastewater <i>APHA, 2005</i> & <i>ISO, 2003</i> , 2012, part 1010 & part 4000 (C)	Rangsit
Temperature °	Degree C	-	-	35.0	1-40	Standard method for the Examination of Water and Wastewater <i>APHA, 2005</i> & <i>ISO, 2003</i> , 2012, part 1010 & part 4000 (C)	Rangsit
Total Suspended Solids (Total at 120-125 Degree C)	mg/L	-	5	26	< 200	Standard method for the Examination of Water and Wastewater <i>APHA, 2005</i> & <i>ISO, 2003</i> , 2012, part 1040 & part 4000 (C)	Rangsit

**Notes:** - Specimen of WSA Sewerage Industrial Land. Maximum needs for wastewater discharging to central wastewater treatment plant.

**Sampling By:** Napatree Porrasom (wastewater) <204 >0071

**Insured:**

- 1.00 (cost of analysis)
- 2.00 (Lower than 100 mg of Quantity) (1.00 mg of Reporting)
- Available below "Rate not included" in scope of accreditation ISO/IEC 17025.
- Sampling is not included in scope of accreditation ISO/IEC 17025

Siriluk P.

Siriluk Porrasom  
Section Head  
ms000004-01 <204 >0023

**Approved by**

Kant A.

Kantadon Anon  
Assistant General Manager  
ms000004-01 <204 >0004

Photo in this report is certified, either by using the equipment or by other for a real situation of Samples.

00000001-01, Phatthana Road 90, Phatthana Road 90, Phatthana Road 90, Chao Prachin, Bangkok 10120 Thailand      Phone: +66 2 708 0000      Fax: +66 2 708 0100

100, Phatthana Road 90, Phatthana Road 90, Phatthana Road 90, Chao Prachin, Bangkok 10120 Thailand      Phone: +66 2 708 0000      Fax: +66 2 708 0100

SIRILUK PORRASOM

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## Analysis / Test Report



**TESTING**  
Lab No: 00009

---

**Client:** WWA (Sri Lanka and Power Public Company Limited)  
111, New 7, Rangimala Road, Rangimala, Nangalwa, Sarnath Thailand 10140

**P/P / I:**

**Project Name:** Factory 1 Rindity  
**Project Location:** 0104 15

**Sample Number:** 2102705-1  
**Analysis Date:** Apr 14, 2023 9:25 AM  
**Sample Description:** Group 2 Wastewater 100% CT  
**Container ID:** SL-107-2024  
**Lot:** 43,79-78  
**Site:** Sam-Oggem Division (Sarnath) Co., Ltd

**Location:** Factory 2  
**Date of Sample Collection:** Apr 05, 2023  
**Condition of Sample:** As received  
**Physical Property:** Yellow, white colour, a bit of solid and settled

**TESTING**  
Lab No: 00009  
**Lot ID:** 2527095  
**Received Date:** Apr 06, 2023  
**Date Reported:** Apr 15, 2023  
**Report Number:** 203206-1

Page 1 of 1

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Analyte	Unit	LOD	LOQ	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
BOD (5 Days at 20 degrees C)	mg/L	-	2.0	18.7	5000	Standard Methods for the Examination of Water and Wastewater, 1995, 1998, 2005, 2012, 2015, 2017, 2018 & 2019, 2019 & 2021, 2022	Sergrip
COD	mg/L	-	20	80	5750	Standard Methods for the Examination of Water and Wastewater, 1995, 1998, 2005, 2012, 2015, 2017, 2018 & 2019, 2019 & 2021, 2022	Sergrip
Oil & Grease	mg/L	-	3	<3	610	Standard Methods for the Examination of Water and Wastewater, 1995, 1998, 2005, 2012, 2015, 2017, 2018 & 2019, 2019 & 2021, 2022	Sergrip
pH (on site) *	-	-	-	7.8	5.5-8.5	Standard Methods for the Examination of Water and Wastewater, 1995, 1998, 2005, 2012, 2015, 2017, 2018 & 2019, 2019 & 2021, 2022	Sergrip
Temperature *	°C	-	-	30.6	14-5	Standard Methods for the Examination of Water and Wastewater, 1995, 1998, 2005, 2012, 2015, 2017, 2018 & 2019, 2019 & 2021, 2022	Sergrip
Total Suspended Solids Direct at 102-105 degree C	mg/L	-	5	48	5200	Standard Methods for the Examination of Water and Wastewater, 1995, 1998, 2005, 2012, 2015, 2017, 2018 & 2019, 2019 & 2021, 2022	Sergrip

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**Guideline:** Standard of WWA (Sri Lanka Industrial Land, Maximum levels for wastewater discharging to central-cumulative stream)

**Sampling by:** Thermal Gravimetric analysis (TGA) + DSC + HPLC

**Remarks:**

- \* LOD - Limit of Detection
- \* LOQ - Lower Limit (1/2 of Quantitation) / 1/10 of (Reporting)
- \* Suspectibility: Impurity is not included in scope of accreditation ISO/IEC 17025, 17020, 17021, 17023, 17025, 17026, 17027, 17028, 17029, 17030, 17031, 17032, 17033, 17034, 17035, 17036, 17037, 17038, 17039, 17040, 17041, 17042, 17043, 17044, 17045, 17046, 17047, 17048, 17049, 17050, 17051, 17052, 17053, 17054, 17055, 17056, 17057, 17058, 17059, 17060, 17061, 17062, 17063, 17064, 17065, 17066, 17067, 17068, 17069, 17070, 17071, 17072, 17073, 17074, 17075, 17076, 17077, 17078, 17079, 17080, 17081, 17082, 17083, 17084, 17085, 17086, 17087, 17088, 17089, 17090, 17091, 17092, 17093, 17094, 17095, 17096, 17097, 17098, 17099, 17100, 17101, 17102, 17103, 17104, 17105, 17106, 17107, 17108, 17109, 17110, 17111, 17112, 17113, 17114, 17115, 17116, 17117, 17118, 17119, 17120, 17121, 17122, 17123, 17124, 17125, 17126, 17127, 17128, 17129, 17130, 17131, 17132, 17133, 17134, 17135, 17136, 17137, 17138, 17139, 17140, 17141, 17142, 17143, 17144, 17145, 17146, 17147, 17148, 17149, 17150, 17151, 17152, 17153, 17154, 17155, 17156, 17157, 17158, 17159, 17160, 17161, 17162, 17163, 17164, 17165, 17166, 17167, 17168, 17169, 17170, 17171, 17172, 17173, 17174, 17175, 17176, 17177, 17178, 17179, 17180, 17181, 17182, 17183, 17184, 17185, 17186, 17187, 17188, 17189, 17190, 17191, 17192, 17193, 17194, 17195, 17196, 17197, 17198, 17199, 17200, 17201, 17202, 17203, 17204, 17205, 17206, 17207, 17208, 17209, 17210, 17211, 17212, 17213, 17214, 17215, 17216, 17217, 17218, 17219, 17220, 17221, 17222, 17223, 17224, 17225, 17226, 17227, 17228, 17229, 17230, 17231, 17232, 17233, 17234, 17235, 17236, 17237, 17238, 17239, 17240, 17241, 17242, 17243, 17244, 17245, 17246, 17247, 17248, 17249, 17250, 17251, 17252, 17253, 17254, 17255, 17256, 17257, 17258, 17259, 17260, 17261, 17262, 17263, 17264, 17265, 17266, 17267, 17268, 17269, 17270, 17271, 17272, 17273, 17274, 17275, 17276, 17277, 17278, 17279, 17280, 17281, 17282, 17283, 17284, 17285, 17286, 17287, 17288, 17289, 17290, 17291, 17292, 17293, 17294, 17295, 17296, 17297, 17298, 17299, 17300, 17301, 17302, 17303, 17304, 17305, 17306, 17307, 17308, 17309, 17310, 17311, 17312, 17313, 17314, 17315, 17316, 17317, 17318, 17319, 17320, 17321, 17322, 17323, 17324, 17325, 17326, 17327, 17328, 17329, 17330, 17331, 17332, 17333, 17334, 1





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[illegible]

**Guideline:** Standard of WHO Sanitary Industrial Land, Maximum levels for wastewater discharging to central wastewater treatment plant.  
**Sampling By:** Tarnawat Pumping station 024448888 5-204-0056  
**Notes:**  
 LOD : Limit of Detection  
 \*LO : Lower than LOD (Limit of Quantitation) ; LOB (Limit of Reporting)  
 Analytical method : \*Acids not included in scope of Accreditation ISO/IEC 17025  
 Sampling is not included in scope of accreditation ISO/IEC 17025

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Sample Number	253-11				May 19, 2015	
Sample Date	May 19, 2015 9:35 AM					
Sample Description	Point 2 Waterbody WPP-7				Site	
Contract No.	00_20772394				Guaridan Industries Corp Ltd	
Location	Point 2					
Date Analysis Completed	May 19, 2015					
Condition of Sample	Collected in three plastic bottles and one amber glass bottle, sample containers curing to pretreatment - preservation standard (SWA, USPA).					
Physical Property	Solids, metals, volatiles, and/or not tested					
Analysis	Unit	LOD	LOQ	Result	Qualifier / Specification	Method
Mercury Testing						
AsCd (in glass at 20 degrees C)	mg/L		1.0	5.9	1500	Detected Methods for the Examination of water and waterbody. AsCd, AsCdS & WPP; pH= 2.21, pH= 12.03 & pH= 10.00 10.00
COD	mg/L		25	41	1750	Detected Methods for the Examination of water and waterbody. AsCd, AsCdS & WPP; pH= 2.21, pH= 12.03 & pH= 10.00
Oil & Grease	mg/L		3	<3	110	Detected Methods for the Examination of water and waterbody. AsCd, AsCdS & WPP; pH= 2.21, pH= 12.03 & pH= 10.00
pH (in air) *				7.7	5.9-6.6	Detected Methods for the Examination of water and waterbody. AsCd, AsCdS & WPP; pH= 2.21, pH= 12.03 & pH= 10.00
Temperature *	Degree C			32.4	(4)	Detected Methods for the Examination of water and waterbody. AsCd, AsCdS & WPP; pH= 2.21, pH= 12.03 & pH= 10.00
Total Suspended Solids dried at 103-105 °C	mg/L		5	14	1200	Detected Methods for the Examination of water and waterbody. AsCd, AsCdS & WPP; pH= 2.21, pH= 12.03 & pH= 10.00

**Guideline:** Standard of WHO Sanitary Industrial Land, Maximum levels for wastewater discharging to central wastewater treatment plant.  
**Sampling By:** Themsorn Puangpak and Jussakorn R. - 204-4-0056  
**Remark:**  
 1. LOD : Limit of Detection  
 2. LQL : Lower Limit (LOQ) (Limit of Quantitation) : 1/10 (Limit of Reporting)  
 3. Analytical method : It was not included in scope of Accreditation ISO/IEC 17025.  
 4. Sampling is not included in scope of accreditation ISO/IEC 17025

Technical Management:  Nadeem  
Nadeem Spinning  
Supervisor  
msl@naamf t-204-0-0008

Approved by:  Karolinn Anst  
Karolinn Anst  
Assistant General Manager  
msl@naamf t-204-0-0008

Results shown in the certificate are submitted, unless the printing unit is controlled by IAT. The report must be signed and approved by the IAT. The report must be signed and approved by the IAT. The report must be signed and approved by the IAT.

**Sampling By:** Interval Pivotal (estimated  $\sqrt{104 \times 0.058}$ )

Report:

1.00 (out of 1000000)

7.7 (lower tail 100) (out of 1000000) (out of 1000000)

Analysis marked "A" was not included in mean of Acceleration (100-95, 100).

Sampling was included in mean of acceleration (100-95, 100).

**Technical Management**

*Savithree N*

Savithree Rameshwaran  
Manager  
tel:0609874-204-0007

**Approved by**

*Kandice Ann*

Kandice Ann  
Assistant General Manager  
tel:0609874-204-0008

I hereby declare that the information submitted herein is true and correct to the best of my knowledge and belief.





[illegible]

















**ALS**  
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## Analysis / Test Report



**TESTING**  
Lot ID: **2537604**  
Date Received: **May 09, 2025**  
Report Number: **3288672-5**

---

**Client:** WOL Industries and Power Rubber Company Limited  
 113, Neo-T, Bangkong Road, Bangkong, Bangkok, Saraburi Thailand 35140

**P/O #:**  
**Project Name:** Factory 1 Monthly  
**Project Location:** NAMA 152

**Sample Number:** 2537-0014  
**Sample Date:** May 09, 2025 9:50 AM  
**Customer ID:** Group 2 Watermeter WPS-CT  
**Sample Description:** ISO, ISO 2024 **PH:** 74  
**Site:** Siam SGC Technology Co., Ltd.  
**Date Analysis Commenced:** May 10, 2025  
**Condition of Sample:** (WPS-1, ISO2024)  
 Contained 3 three phase bottles and one amber glass bottle, sample containers comply to pre-treatment - preservation standards  
 Name: same address, valid and useful

**Physical Property**

Analyte	Unit	LOD	LOQ	Result	Guideline / Specification	Method	Testing Location
Water Testing							
ISO: (ISO 2024 degree C)	mg/L	-	2.0	18.1	<1500	Standard Methods for the Examination of Water and Wastewater, 24th ed., 2012, 9201 G, 2017, 24th ed., 2012, 9201 G, 2017, 24th ed., 2012, 9201 G	Singapore
COO	mg/L	-	25	70	3750	Standard Methods for the Examination of Water and Wastewater, 24th ed., 2012, 9201 G, 2017, 24th ed., 2012, 9201 G	Singapore
Oil & Grease	mg/L	-	3	<3	210	Standard Methods for the Examination of Water and Wastewater, 24th ed., 2012, 9201 G, 2017, 24th ed., 2012, 9201 G	Singapore
pH (on site) °		-	-	6.9	3.5-8.0	Standard Methods for the Examination of Water and Wastewater, 24th ed., 2012, 9201 G, 2017, 24th ed., 2012, 9201 G	Singapore
Temperature °	Degree C	-	-	32.4	14-35	Standard Methods for the Examination of Water and Wastewater, 24th ed., 2012, 9201 G, 2017, 24th ed., 2012, 9201 G	Singapore
Total Suspended Solids Direct at 203-155 degree C	mg/L	-	5	28	2200	Standard Methods for the Examination of Water and Wastewater, 24th ed., 2012, 9201 G, 2017, 24th ed., 2012, 9201 G	Singapore

**Guideline:** Standard of WPS Saraburi Industrial Land, Maximum levels for wastewater discharging to central wastewater treatment plant.


**Sampling Info:** 203mm Pumping in/outflow @ 203-4000

**Notes:**

- ISO: 1500 (not of requirement)
- COO: 1500 (not of requirement)
- Oil & Grease: 1500 (not of requirement)
- Temperature: 1500 (not of requirement)
- ISO: 1500 (not of requirement)
- COO: 1500 (not of requirement)
- Oil & Grease: 1500 (not of requirement)
- Temperature: 1500 (not of requirement)

**Technical Management**

  
 Nara Saming  
 Supervisor  
 2024-05-09

  
 Approved by  
 K. A. Al  
 General Manager  
 2024-05-09

\*This report is intended only for the client's use. It is not to be used for any other purpose. It is the client's responsibility to ensure that the data is used for the intended purpose.

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Client: WMA Utilities & River for Companies Limited		Lot ID: 2537614						
111 Hies 7, Songkietdang Road, Nongkhetung, Saraburi Thani (SR4)		Date Received: 16 May 2023						
Project Name: Factory 1 Monthly		Date Issued: 16 May 2023						
Project Location: WMA SR4		Report Number: C230890-1						
Sample Number	2527614-1							
Sample Date	May 16, 2023 (14:40:41)							
Sample Description	SGL 204/2040							
Contact ID	SGL_204/2040 - PI# 153-124							
Site	WMA Corporate Plant (pre-treatment)							
Date Analysis Commenced: May 16, 2023								
Conditions of Sample: Combined in three plastic bottles and one ceramic glass bottle, sample containers comply to pretreatment - preservation standards								
Analysis Method: CWA, EPA 8210-9-10								
Physical Property: Nitrite-N, 10 of aliquot, solid and liquid								
Analyte	Unit	Value	Result	Qualifier / Specification	Method	Tested Location		
<b>Water Testing</b>								
Water Temperature	mg/L	—	1.0	76.3	15000	Sampled		
DO (%) at 25 degrees C	mg/L	—	2.0	76.3	15000	Sampled		
SCC (100 mL)	mg/L	—	25	148.0	15700	Sampled		
Oil & Grease	mg/L	—	3	3	110	Sampled		
pH (mV @ 25 °C)	mg/L	—	8.0	8.5-8.6	15000	Sampled		
Temperature °C	Degree C	—	26.6	14.5	15000	Sampled		
Total Suspended Solids Dried at 550 °C	mg/L	—	67	62000	15000	Sampled		

**Guideline:** Standard of WHO Sanitary Industrial Land, Maximum levels for wastewater discharging to central wastewater treatment plant.  
**Sampling By:** Termost Pumpuk mku2004041 v-204-s-0006  
**Remark:**  
 LOD : Limit of Detection  
 \* : Lower than LOD (Limit of Quantification) / LOD (Limit of Reporting)  
 Analytical method : Acute not included in scope of Accreditation ISO/IEC 17025.  
 Sampling is not included in scope of accreditation ISO/IEC 17020

Technical Management C. N. S. S. S.  
Nann Savang  
Supervisor  
incharge of 1-204-0-0004

Approved by K. A. A.  
Kandarpin Aonk  
Assistant General Manager  
incharge of 1-204-0-0004

**LINE SOLUTIONS**

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**NIGHT SOLUTIONS NIGHT PARTNERS**

Client: <b>Alkermes (India) Private Limited</b>					No. 0059									
111 Rtn 7, Nongitaled Road, Nongitaled, Nongitaled, Nongitaled (2014)					Let ID: <b>2545544</b>									
P/O					Date Received: <b>1 Jun 13</b>									
Project Name: <b>Factory Monthly</b>					Report Made: <b>1 Jun 13</b>									
Project Location: <b>WVH 512</b>					Data Request: <b>3382012</b>									
Site ID: <b>1</b>														
Sample Number	2194194													
Sample Date	Jun 13 12:00 9:20 AM													
Sample Description	Group 1: <b>WVH512</b> 1000 LT													
Container ID	SIL 294, 250 mL, Flat, 6X2													
Site	Diapex Test (Thailand) Co., Ltd.													
Data Analysis Commented														
Container is not empty glass bottle and three plastic bottles; sample containers comply to pretreatment - preservation standard														
GMP/ISO/IEC 17025														
Physical Property														
Sample Name: <b>Water</b> (same as above) a lot of solid and turbid														
Analyte	Unit	LOD	Result	Guideline / Specification	Method	Tested Location								
Water Testing														
ECU (D) (at 25 degrees C)	mg/L	1.0	130	<1000	Standard Methods for the Examination of Water and Wastewater, 19th ed., APHA, ASTM D 1591, 2005, 2005 and ISO 7027-1:2000	Diapex								
COO	mg/L	25	300	<1750	Standard Methods for the Examination of Water and Wastewater, 19th ed., APHA, ASTM D 1591, 2005, 2005 and ISO 7027-1:2000	Diapex								
Oil & Grease	mg/L	3	<3	100	Standard Methods for the Examination of Water and Wastewater, 19th ed., APHA, ASTM D 1591, 2005, 2005 and ISO 7027-1:2000	Diapex								
pH (at 25°C)			7.2	5.5-9.0	Standard Methods for the Examination of Water and Wastewater, 19th ed., APHA, ASTM D 1591, 2005, 2005 and ISO 7027-1:2000	Diapex								
Temperature	Degree C		31.1	14-15	Standard Methods for the Examination of Water and Wastewater, 19th ed., APHA, ASTM D 1591, 2005, 2005 and ISO 7027-1:2000	Diapex								
Total Suspended Solids Dried at 103.3°C for 1 hour	mg/L	5	170	<2000	Standard Methods for the Examination of Water and Wastewater, 19th ed., APHA, ASTM D 1591, 2005, 2005 and ISO 7027-1:2000	Diapex								

**Guideline:** Standard of WHO Sanitary Industrial Land, Maximum levels for wastewater discharging to central wastewater treatment plant.

**Sampling By:** Tamsorn Pongkum and Chonlathorn S-204-s-0208

**Remark:**

- LOD : Limit of Detection
- LOQ : Limit of Quantitation
- LOE : Limit of Reporting

**Analytical method:** Aqueous and incubated in aqueous of Acetochloric acid (HCl) (10%).

**Sensitivity:** is not available in terms of calibration (0.0000, 0.0001, 0.0002, 0.0003, 0.0004, 0.0005, 0.0006, 0.0007, 0.0008, 0.0009, 0.0010, 0.0011, 0.0012, 0.0013, 0.0014, 0.0015, 0.0016, 0.0017, 0.0018, 0.0019, 0.0020, 0.0021, 0.0022, 0.0023, 0.0024, 0.0025, 0.0026, 0.0027, 0.0028, 0.0029, 0.0030, 0.0031, 0.0032, 0.0033, 0.0034, 0.0035, 0.0036, 0.0037, 0.0038, 0.0039, 0.0040, 0.0041, 0.0042, 0.0043, 0.0044, 0.0045, 0.0046, 0.0047, 0.0048, 0.0049, 0.0050, 0.0051, 0.0052, 0.0053, 0.0054, 0.0055, 0.0056, 0.0057, 0.0058, 0.0059, 0.0060, 0.0061, 0.0062, 0.0063, 0.0064, 0.0065, 0.0066, 0.0067, 0.0068, 0.0069, 0.0070, 0.0071, 0.0072, 0.0073, 0.0074, 0.0075, 0.0076, 0.0077, 0.0078, 0.0079, 0.0080, 0.0081, 0.0082, 0.0083, 0.0084, 0.0085, 0.0086, 0.0087, 0.0088, 0.0089, 0.0090, 0.0091, 0.0092, 0.0093, 0.0094, 0.0095, 0.0096, 0.0097, 0.0098, 0.0099, 0.0000, 0.0001, 0.0002, 0.0003, 0.0004, 0.0005, 0.0006, 0.0007, 0.0008, 0.0009, 0.0010, 0.0011, 0.0012, 0.0013, 0.0014, 0.0015, 0.0016, 0.0017, 0.0018, 0.0019, 0.0020, 0.0021, 0.0022, 0.0023, 0.0024, 0.0025, 0.0026, 0.0027, 0.0028, 0.0029, 0.0030, 0.0031, 0.0032, 0.0033, 0.0034, 0.0035, 0.0036, 0.0037, 0.0038, 0.0039, 0.0040, 0.0041, 0.0042, 0.0043, 0.0044, 0.0045, 0.0046, 0.0047, 0.0048, 0.0049, 0.0050, 0.0051, 0.0052, 0.0053, 0.0054, 0.0055, 0.0056, 0.0057, 0.0058, 0.0059, 0.0060, 0.0061, 0.0062, 0.0063, 0.0064, 0.0065, 0.0066, 0.0067, 0.0068, 0.0069, 0.0070, 0.0071, 0.0072, 0.0073, 0.0074, 0.0075, 0.0076, 0.0077, 0.0078, 0.0079, 0.0080, 0.0081, 0.0082, 0.0083, 0.0084, 0.0085, 0.0086, 0.0087, 0.0088, 0.0089, 0.0090, 0.0091, 0.0092, 0.0093, 0.0094, 0.0095, 0.0096, 0.0097, 0.0098, 0.0099, 0.0000, 0.0001, 0.0002, 0.0003, 0.0004, 0.0005, 0.0006, 0.0007, 0.0008, 0.0009, 0.0010, 0.0011, 0.0012, 0.0013, 0.0014, 0.0015, 0.0016, 0.0017, 0.0018, 0.0019, 0.0020, 0.0021, 0.0022, 0.0023, 0.0024, 0.0025, 0.0026, 0.0027, 0.0028, 0.0029, 0.0030, 0.0031, 0.0032, 0.0033, 0.0034, 0.0035, 0.0036, 0.0037, 0.0038, 0.0039, 0.0040, 0.0041, 0.0042, 0.0043, 0.0044, 0.0045, 0.0046, 0.0047, 0.0048, 0.0049, 0.0050, 0.0051, 0.0052, 0.0053, 0.0054, 0.0055, 0.0056, 0.0057, 0.0058, 0.0059, 0.0060, 0.0061, 0.0062, 0.0063, 0.0064, 0.0065, 0.0066, 0.0067, 0.0068, 0.0069, 0.0070, 0.0071, 0.0072, 0.0073, 0.0074, 0.0075, 0.0076, 0.0077, 0.0078, 0.0079, 0.0080, 0.0081, 0.0082, 0.0083, 0.0084, 0.0085, 0.0086, 0.0087, 0.0088, 0.0089, 0.0090, 0.0091, 0.0092, 0.0093, 0.0094, 0.0095, 0.0096, 0.0097, 0.0098, 0.0099, 0.0000, 0.0001, 0.0002, 0.0003, 0.0004, 0.0005, 0.0006, 0.0007, 0.0008, 0.0009, 0.0010, 0.0011, 0.0012, 0.0013, 0.0014, 0.0015, 0.0016, 0.0017, 0.0018, 0.0019, 0.0020, 0.0021, 0.0022, 0.0023, 0.0024, 0.0025, 0.0026, 0.0027, 0.0028, 0.0029, 0.0030, 0.0031, 0.0032, 0.0033, 0.0034, 0.0035, 0.0036, 0.0037, 0.0038, 0.0039, 0.0040, 0.0041, 0.0042, 0.0043, 0.0044, 0.0045, 0.0046, 0.0047, 0.0048, 0.0049, 0.0050, 0.0051, 0.0052, 0.0053, 0.0054, 0.0055, 0.0056, 0.0057, 0.0058, 0.0059, 0.0060, 0.0061, 0.0062, 0.0063, 0.0064, 0.0065, 0.0066, 0.0067, 0.0068, 0.0069, 0.0070, 0.0071, 0.0072, 0.0073, 0.0074, 0.0075, 0.0076, 0.0077, 0.0078, 0.0079, 0.0080, 0.0081, 0.0082, 0.0083, 0.0084, 0.0085, 0.0086, 0.0087, 0.0088, 0.0089, 0.0090, 0.0091, 0.0092, 0.0093, 0.0094, 0.0095, 0.0096, 0.0097, 0.0098, 0.0099, 0.0000, 0.0001, 0.0002, 0.0003, 0.0004, 0.0005, 0.0006, 0.0007, 0.0008, 0.0009, 0.0010, 0.0011, 0.0012, 0.0013, 0.0014, 0.0015, 0.0016, 0.0017, 0.0018, 0.0019, 0.0020, 0.0021, 0.0022, 0.0023, 0.0024, 0.0025, 0.0026, 0.0027, 0.0028, 0.0029, 0.0030, 0.0031, 0.0032, 0.0033, 0.0034, 0.0035, 0.0036, 0.0037, 0.0038, 0.0039, 0.0040, 0.0041, 0.0042, 0.0043, 0.0044, 0.0045, 0.0046, 0.0047, 0.0048, 0.0049, 0.0050, 0.0051, 0.0052, 0.0053, 0.0054, 0.0055, 0.0056, 0.0057, 0.0058, 0.0059, 0.0060, 0.0061, 0.0062, 0.0063, 0.0064, 0.0065, 0.0066, 0.0067, 0.0068, 0.0069, 0.0070, 0.0071, 0.0072, 0.0073, 0.0074, 0.0075, 0.0076, 0.0077, 0.0078, 0.0079, 0.0080, 0.0081, 0.0082, 0.0083, 0.0084, 0.0085, 0.0086, 0.0087, 0.0088, 0.0089, 0.0090,

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Client: 0704/2024/Analyses and Review: 0704/2024/Analyses and Review										Lot ID: 2545814	
113 Hio 7, Hongkong Road, Nongkhalang, Nongkhalang, Nongkhalang, Nongkhalang (2014)										Date Received: 3 Jun 2025	
P/O										Date Reported: 3 Jun 2025	
Project Name: Factory 1 Monthly										Report Number: 3380051-1	
Project Location: WPA 152											
Sample Number	2343014-1										
Sample Date	Jun 13, 2025 10:45 AM										
Sample Description	Group 7: Waterborne WSDT										
Contact ID	SL_004_2024_Pht_36										
Date Analysis Commenced	Jun 13, 2025										
Location of Sample	Collected in an amber glass bottle and three plastic bottles. Sample containers subject to pre-treatment, preservation standard (N/A), and storage (N/A).										
Physical Property	Water, color, solid and turbid										
Analyte	Unit	LOD	LOQ	Result	Guideline / Specification	Method	Tested Location				
Water Testing											
WSDT (25 to 28 Degrees C)	mg/L		1.0	10.7	15000	Standard Methods for the Examination of Water and Wastewater, 19th ed., 1995, 1998, 2005, 2011, 2017, 2021, 2023, and 2024 (N/A)	Factory 1				
COO	mg/L		25	43	6750	Standard Methods for the Examination of Water and Wastewater, 19th ed., 1995, 1998, 2005, 2011, 2017, 2021, 2023, and 2024 (N/A)	Factory 1				
Oil & Grease	mg/L		3	<3	110	Standard Methods for the Examination of Water and Wastewater, 19th ed., 1995, 1998, 2005, 2011, 2017, 2021, 2023, and 2024 (N/A)	Factory 1				
pH (at 25 °C)				7.2	5.5-9.0	Standard Methods for the Examination of Water and Wastewater, 19th ed., 1995, 1998, 2005, 2011, 2017, 2021, 2023, and 2024 (N/A)	Factory 1				
Temperature °	Degrees C			31.9	14-5	Standard Methods for the Examination of Water and Wastewater, 19th ed., 1995, 1998, 2005, 2011, 2017, 2021, 2023, and 2024 (N/A)	Factory 1				
Total Suspended Solids Dried at 103 to 105 °C	mg/L		8	11	<200	Standard Methods for the Examination of Water and Wastewater, 19th ed., 1995, 1998, 2005, 2011, 2017, 2021, 2023, and 2024 (N/A)	Factory 1				

**Outbreak:** Standard of WHO Garbhi Industrial Land, Maximum levels for wastewater discharging to central wastewater treatment plant.

**Sampling By:** Tamsat Pongkum and Saeed +204+2055

**Remark:**

- 1.00 (Limit of Detection)
- 1.00 (Lower than 100 µg/l of Quantitation) 1.00 µg/l and of Reporting)
- Analysis method: Aqueous included in water of Biochemical Oxygen Demand (BOD)
- Sensitivity and Accuracy of accuracy: 0.001, 0.001

Technical Management

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Siruluk Purnadi  
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Approved by

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 A/S LABORATORY GROUP ZHANGSHUO CO., LTD. AN A/S linked Company

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PHIGHT SOLUTIONS IN THE PARTNER

## Analysis / Test Report

TESTING

No. 00009

Lot ID: **254518**

Date Received: Jun 08, 2025

Report Number: Jun 16, 2025

Quote Number: 300087-3

Page 1 of 1

Client: ARA Utilities and Power Public Company Limited  
111 Nua 7, Bangpakdi Road, Bangkok, Bangkok, Sarabhai Thailand (SE-0)

PIV: 1 Factory 1 Facility

Project Location: Factory 1 Facility

Sample Number: 254518-1

Sampled Date: Jun 09, 2025 9:30 AM

Sample Description: Group 2 Wastewater HW-CF

Container ID: GL-006-2504

Location: Plant 1

Date Analysis Completed: Jun 10, 2025

Conditions of Sample: Collected in one amber glass bottle and three plastic bottles, sample containers comply to pre-treatment, preservation standards (SMAW/GFPA)

Physical Property: Volatile, semi-volatile, acid and no turbid

Analyte	Unit	LOD (U/L)	Result	Guideline / Specification	Method	Testing Laboratory
Water Testing						
DO (15 days at 20 degrees C)	mg/L	—	2.0	4.0	5500	Sarabhai
						Standard Methods for the Examination of Water and Wastewater, APHA, 1995, 1997, 2005, 2012, 2018, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 2163, 2164, 2165, 2166, 2167, 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2177, 2178, 2179, 2180, 2181, 2182, 2183, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2219, 2220, 2221, 2222, 2223, 2224, 2225, 2226, 2227, 2228, 2229, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2240, 2241, 2242, 2243, 2244, 2245, 2246, 2247, 2248, 2249, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2263, 2264, 2265, 2266, 2267, 2268, 2269, 2270, 2271, 2272, 2273, 2274, 2275, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2288, 2289, 2290, 2291, 2292, 2293, 2294, 2295, 2296, 2297, 2298, 2299, 2300, 2301, 2302, 2303, 2304, 2305, 2306, 2307, 2308, 2309, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2320, 2321, 2322, 2323, 2324, 2325, 2326, 2327, 2328, 2329, 2330, 2331, 2332, 2333, 2334, 2335, 2336, 2337, 2338, 2339, 2340, 2341, 2342, 2343, 2344, 2345, 2346, 2347, 2348, 2349, 2350, 2351, 2352, 2353, 2354, 2355, 2356, 2357, 2358, 2359, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2407, 2408, 2409, 2410, 2411, 2412, 2413, 2414, 2415, 2416, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 2424, 2425, 2426, 2427, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2438, 2439, 2440, 2441, 2442, 2443, 2444, 2445, 2446, 2447, 2448, 2449, 2450, 2451, 2452, 2453, 2454, 2455, 2456, 2457, 2458, 2459, 2460, 2461, 2462, 2463, 2464, 2465, 2466, 2467, 2468, 2469, 2470, 2471, 2472, 2473, 2474, 2475, 2476, 2477, 2478, 2479, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 250







[illegible]






							
<h2 style="margin: 0;">Analysis / Test Report</h2>							
<b>Client :</b> WWSA Utilities and Power Public Company Limited 113 Moo 2, Nongkhalang Road, Nongkhalang, Bangkok, Thailand (20140)		<b>TESTING</b> No. 00008 <b>Lot ID: 2545915</b> Scheduled Date : Jan 16, 2025 Report Number : Jan 17, 2025 Order Number : 333556-1					
<b>P/O #</b> <b>Project Name :</b> Factory / Municipality <b>Project Location :</b> (WWSA, S)		Page 1 of 1					
<b>Sample Number</b> 1249151-1 <b>Sampled Date</b> Jan 06, 2025 @ 13:41 <b>Sample Description</b> Group 2 Wastewater WWS-C SPS, 202, 2054 <b>Flow</b> 3l <b>Date Analysis Commenced</b> Jan 30, 2025 <b>Analysis of Sample</b> (ALS, US EPA) Combined as three plastic bottles and one amber glass bottle, sample containers comply to pretreatment - preservation standards	<b>Physical Property</b> Colorless, odourless, no solid and turbid						
<b>Analyzer</b> Winkler Titration ISO:17 (20 ± 0.2 degree C)	<b>Unit</b> mg/L	<b>LOD</b> -	<b>LOQ</b> 0.001	<b>Result</b> <2.0	<b>Guideline / Standard</b> <500	<b>Method</b> Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 19th ed., 2023, part 1924-B, part 1924-C, 2023, part 1924-B, part 1924-C	<b>Testing Location</b> Bangkok
<b>COO</b>	mg/L	< 25	<25	1750	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 19th ed., 2023, part 1924-B, part 1924-C	Bangkok	
<b>Oil &amp; Grease</b>	mg/L	< 3	<3	110	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 19th ed., 2023, part 1924-B, part 1924-C	Bangkok	
<b>pH (in situ) *</b>	-	< -	< -	8.0	5.5-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 19th ed., 2023, part 1924-B, part 1924-C	Bangkok
<b>Temperature *</b>	Degree C	< -	< -	30.5	145	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 19th ed., 2023, part 1924-B, part 1924-C	Bangkok
<b>Total Suspended Solids (Settled at 120 ± 0.5 degree C)</b>	mg/L	< -	< -	5	<200	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 19th ed., 2023, part 1924-B, part 1924-C	Bangkok
<b>Remarks :</b> Standard of WWSA Sanitation Industrial Limit, Maximum limits for wastewater discharging to central wastewater treatment plant.							
<b>Sampling By :</b> Tannapat Pongpang (accredited >20+ in ISO)							
<b>Analysis :</b> <ul style="list-style-type: none"> <li>ISO 1 - test of turbidity</li> <li>ISO 1 - test of color</li> <li>ISO 1 - test of pH</li> <li>ISO 1 - test of temperature</li> <li>ISO 1 - test of oil and grease</li> <li>ISO 1 - test of chemical oxygen demand (COD)</li> <li>ISO 1 - test of biological oxygen demand (BOD)</li> <li>ISO 1 - test of total suspended solids (TSS)</li> <li>ISO 1 - test of total dissolved solids (TDS)</li> <li>ISO 1 - test of total organic carbon (TOC)</li> <li>ISO 1 - test of total organic phosphorus (TOP)</li> <li>ISO 1 - test of total phosphorus (TP)</li> <li>ISO 1 - test of total nitrogen (TN)</li> <li>ISO 1 - test of ammonia nitrogen (NH3-N)</li> <li>ISO 1 - test of nitrite nitrogen (NO2-N)</li> <li>ISO 1 - test of nitrate nitrogen (NO3-N)</li> <li>ISO 1 - test of orthophosphate phosphorus (PO4-P)</li> <li>ISO 1 - test of reactive phosphorus (RP)</li> <li>ISO 1 - test of total phosphorus (TP)</li> <li>ISO 1 - test of total nitrogen (TN)</li> <li>ISO 1 - 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test of total phosphorus (TP)</li> <li>ISO 1 - test of total nitrogen (TN)</li> <li>ISO 1 - test of ammonia nitrogen (NH3-N)</li> <li>ISO 1 - test of nitrite nitrogen (NO2-N)</li> <li>ISO 1 - test of nitrate nitrogen (NO3-N)</li> <li>ISO 1 - test of orthophosphate phosphorus (PO4-P)</li> <li>ISO 1 - test of reactive phosphorus (RP)</li> <li>ISO 1 - test of total phosphorus (TP)</li> <li>ISO 1 - test of total nitrogen (TN)</li> <li>ISO 1 - test of ammonia nitrogen (NH3-N)</li> <li>ISO 1 - test of nitrite nitrogen (NO2-N)</li> <li>ISO 1 - test of nitrate nitrogen (NO3-N)</li> <li>ISO 1 - test of orthophosphate phosphorus (PO4-P)</li> <li>ISO 1 - test of reactive phosphorus (RP)</li> <li>ISO 1 - test of total phosphorus (TP)</li> <li>ISO 1 - test of total nitrogen (TN)</li> <li>ISO 1 - test of ammonia nitrogen (NH3-N)</li> <li>ISO 1 - test of nitrite nitrogen (NO2-N)</li> <li>ISO 1 - test of nitrate nitrogen (NO3-N)</li> <li>ISO 1 - test of orthophosphate phosphorus (PO4-P)</li> <li>ISO 1 - 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test of reactive phosphorus (RP)</li> <li>ISO 1 - test of total phosphorus (TP)</li> <li>ISO 1 - test of total nitrogen (TN)</li> <li>ISO 1 - test of ammonia nitrogen (NH3-N)</li> <li>ISO 1 - test of nitrite nitrogen (NO2-N)</li> <li>ISO 1 - test of nitrate nitrogen (NO3-N)</li> <li>ISO 1 - test of orthophosphate phosphorus (PO4-P)</li> <li>ISO 1 - test of reactive phosphorus (RP)</li> <li>ISO 1 - test of total phosphorus (TP)</li> <li>ISO 1 - test of total nitrogen (TN)</li> <li>ISO 1 - test of ammonia nitrogen (NH3-N)</li> <li>ISO 1 - test of nitrite nitrogen (NO2-N)</li> <li>ISO 1 - test of nitrate nitrogen (NO3-N)</li> <li>ISO 1 - test of orthophosphate phosphorus (PO4-P)</li> <li>ISO 1 - test of reactive phosphorus (RP)</li> <li>ISO 1 - test of total phosphorus (TP)</li> <li>ISO 1 - test of total nitrogen (TN)</li> <li>ISO 1 - test of ammonia nitrogen (NH3-N)</li> <li>ISO 1 - test of nitrite nitrogen (NO2-N)</li> <li>ISO 1 - test of nitrate nitrogen (NO3-N)</li> <li>ISO 1 - test of orthophosphate phosphorus (PO4-P)</li> <li>ISO </li></ul>							

		<h2 style="margin: 0;">Analysis / Test Report</h2>		<b>Lot ID: 2545915</b> Date Received : Jun 06, 2025 Date Reported : Jun 17, 2025 Report Number : Z02880-2			
<b>Client :</b> WWA Utilities and Power Public Company Limited 111 Moo 7, Bangnaengdang Road, Bangnaengdang, Nongkhai, Sakhon Thailand 38140							
<b>P/P /</b> :							
<b>Project Name / Facility / Municipality</b> :							
<b>Project Location</b> : Wang Sai, <span style="float: right;">Page 1 of 1</span>							
<b>Sample Number</b> : 2545915-1							
<b>Sampled Date</b> : Jun 06, 2025 9:15 AM							
<b>Sample Description</b> : Group 2 Wastewater WW-CT							
<b>Contract ID</b> : SL_2512_2024 <b>Pkt</b> : 35 <b>Site</b> : Ready Clean Co Ltd							
<b>Date Analysis Commenced</b> : Jun 10, 2025							
<b>Condition of Sample</b> : Coloured as three plastic bottles and one amber glass bottle, sample containers comply to pretreatment - preservation standards (APHA, ISO/IEC)							
<b>Physical Property</b> : Gases, substances, no solid and turbid							
Analyte Property	Unit	LOD	LOQ [LOD]	Result	Caution / Spec. Range	Method	Testing Location
<b>Water Testing</b>							
Amino Sulphate as HSO <sub>4</sub> <sup>-</sup>	mg/L	0.015	0.05	0.35	≤30		Bangkok
Based on Standard Methods for the Examination of Water and Wastewater, APHA, 22nd ed. 2005 2005 ed., 2023, part 1940 B, C							
<b>Guideline:</b> Standard of WWA Industrial Land, Maximum limits for wastewater discharging to central wastewater treatment plant.							
<b>Sampling By :</b> Temmasak Pungpak							
<b>Remark :</b> ✓ 100% of Guidelines ✓ Lower than 1/10 of limit of Quantification (LOQ) (if not Stopping)							
				<b>Approved by</b>		 <b>Sirinuk Samrak</b> Section Head	
<div style="border: 1px solid black; padding: 5px; font-size: small;">             Please note: This is printed at customer request for printing and distribution.              It's the user responsibility to ensure that it is suitable for their own purpose.           </div>							
<small>PHOSPHATE: 100 Phosphatase mg/L, Phosphatase mg/L, Khayamui Phosphatase, Khay-Suan-Sai, Bangkok 10710 Thailand   PHONE: +66 2 7707 9990   FAX: +66 2 7706 3357          E-MAIL: KAS@KASSTORY.COM TH   WWW.KASSTORY.COM TH   123, Rajabhat Road, Bangkok</small>							
		<a href="http://www.alsglobal.com" style="color: blue; text-decoration: none;">www.alsglobal.com</a>		<b>PHOENIX SOLUTIONS INC.</b> (PUNJAB, INDIA)		<small>(signature)_ALS en (signature)</small>	

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**ALS**  
ANALYTICAL SERVICES

## Analysis / Test Report

**TESTING**  
**NO 0059**  
**Lot ID: 2545482**  
Date Received : 31 Jan, 2025  
Date Reported : 3 Jan, 2025  
Report Number : 390521-1

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**Client:** Uthairi Utilities and Power Public Company Limited  
1111 Rue 7, Bangsuek Road, Bangsuek, Bangkok, Thailand 10280

**P/O #:** \_\_\_\_\_

**Project Name:** Factory / Industry

**Project Location:** Uthairi, SE

**Sample Number:** 2504542-1

**Sample Date:** Jan 30, 2025 @ 15:45

**Sample Description:** Group 2 Wastewater WWS-07

**Container ID:** 001, 2004

**Project #:** 47





**Date Analysis Commenced:** Jan 31, 2025


**Condition of Sample (APHA, USEPA):** Combined in three plastic bottles and one amber glass bottle, sample containers cooled to pretestment - preservation standards (Filtrate, water only, solid and turbid)

**Physical Property**


Analysis	Unit	LOD	LOQ	Result	Guideline / Spec/Requirement	Method	Testing Location
Water Testesd BOD(5) @ 20 ± 2°C (mg/L)	mg/L	-	2.00	82	<500	Standard Method for the Examination of water and Wastewater - APHA, 1995 & USEPA, 1995, 2005, 2012, 2013, 2015, 2017, 2019, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 2163, 2164, 2165, 2166, 2167, 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2177, 2178, 2179, 2180, 2181, 2182, 2183, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2219, 2220, 2221, 2222, 2223, 2224, 2225, 2226, 2227, 2228, 2229, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2240, 2241, 2242, 2243, 2244, 2245, 2246, 2247, 2248, 2249, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2263, 2264, 2265, 2266, 2267, 2268, 2269, 2270, 2271, 2272, 2273, 2274, 2275, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2288, 2289, 2290, 2291, 2292, 2293, 2294, 2295, 2296, 2297, 2298, 2299, 2300, 2301, 2302, 2303, 2304, 2305, 2306, 2307, 2308, 2309, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2320, 2321, 2322, 2323, 2324, 2325, 2326, 2327, 2328, 2329, 2330, 2331, 2332, 2333, 2334, 2335, 2336, 2337, 2338, 2339, 2340, 2341, 2342, 2343, 2344, 2345, 2346, 2347, 2348, 2349, 2350, 2351, 2352, 2353, 2354, 2355, 2356, 2357, 2358, 2359, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2407, 2408, 2409, 2410, 2411, 2412, 2413, 2414, 2415, 2416, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 2424, 2425, 2426, 2427, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2438, 2439, 2440, 2441, 2442, 2443, 2444, 2445, 2446, 2447, 2448, 2449, 2450, 2451, 2452, 2453, 2454, 2455, 2456, 2457, 2458, 2459, 2460, 2461, 2462, 2463, 2464, 2465, 2466, 2467, 2468, 2469, 2470, 2471, 2472, 2473, 2474, 2475, 2476, 2477, 2478, 2479, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2514, 2515, 2516, 2517, 2518, 2519, 2520, 2521, 2522, 2523, 2524, 2525, 2526, 2527, 2528, 2529, 2530, 2531, 2532, 2533, 2534, 2535, 2536, 2537, 2538, 2539, 2540, 2541, 2542, 2543, 2544, 2545, 2546, 2547, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2557, 2558, 2559, 2560, 2561, 2562, 2563, 2564, 2565, 2566, 2567, 2568, 2569, 2570, 2571, 2572,	

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Analysis / Test Report					TESTING No: 00559 Lot ID: 2545879-1 Date Received : Jun 23, 2023 Date Reported : Jun 23, 2023 Report Number : 1306709-1	
Client ALS Oilfields and Power Public Company Limited 113 Moo 1, Bangpakong Road, Bangpakong, Nongkhai, Sakhon Thakri (SEAC)						
PJO #						
Project Name	Factory / Ministry					
Project Location	(SNA, SI)					
Sample Number	2545879-1					
Sample Date	Jun 12, 2023 12:00 PM					
Sample Description	Group 1 Watercourse W9-C7					
Contract ID	SI_001_2662	Plot	39	Site SOG Landpage		
Date Analysis Commenced	Jun 13, 2023					
Condition of Sample	Collected in three plastic bottles and one amber glass bottle, sample containers comply to pretreatment - preservation standards (APHA, some policy, acid and buffer)					
Physical Property						
Analyte	Unit	LOD [mg/L]	Result	Coudules / Spec Fraction	Method	Testing Location
Water Testing SDC-D (Set at 20 degree C)	mg/L	< 2.0	3.9	<500	Standard Methods for the Examination of water and wastewater APHA, AWWA & WEF, 1995 ed., 2023 pp 1221 & 987, 2005 ed., 2023 pp 1221 & 987	Bangkok
COO	mg/L	< 25	36	<750	Standard Methods for the Examination of water and wastewater APHA, AWWA & WEF, 1995 ed., 2023 pp 1222 & 9	Bangkok
Oil & Grease	mg/L	< 3	<3	<10	Standard Methods for the Examination of water and wastewater APHA, AWWA & WEF, 1995 ed., 2023 pp 1532 & 9	Bangkok
pH (in lab) °			7.6	5.5-6.0	Standard Methods for the Examination of water and wastewater APHA, AWWA & WEF, 1995 ed., 2023 pp 1532 & 9	Bangkok
Temperature °	Degree C		32.0	<45	Standard Methods for the Examination of water and wastewater APHA, AWWA & WEF, 1995 ed., 2023 pp 1532 & 9	Bangkok
Total Suspended Solids Dried at 102-105 degree C	mg/L		18	<200	Standard Methods for the Examination of water and wastewater APHA, AWWA & WEF, 1995 ed., 2023 pp 238 & 9	Bangkok
<p>Quotation Standard of RMA Sakon Industrial Land, Maximum levels for wastewater discharging to central wastewater treatment plant.</p> <p>Samples by Categorical Parameter indicated &gt;20% &gt;24%</p> <p>Remark:</p> <ul style="list-style-type: none"> <li>* = limit of detection</li> <li>** = lower flow 1/10 of Quantity (&gt;10K of flow &amp; properties)</li> <li>Ambiguity marked "N/A" are not included in scope of facilities (SOE &amp; ITOB).</li> <li>Sampling is not included in scope of accreditation (SV KQ 1767)</li> </ul>						
Technical Management			 Suramon Charnasang Assistant General Manager indicated >20% >24%			
			Approved by  Kachan An Assistant General Manager indicated >20% >24%			
Booked date 9/10/2023 as per analysis date following our standard operating procedure. As per client email dated 09/10/2023. 00559-1 (M) Pathumwan Rd., Pathumwan District, Bangkok, Thailand   Client Test Location: Bangkok   (SNA) Landpage : 1307-Job-ID-2545879-1 00559-1 (M) Pathumwan Rd., Pathumwan District, Bangkok, Thailand   Client Test Location: Bangkok   (SNA) Landpage : 1307-Job-ID-2545879-1						
www.alsglobal.com						



# Analysis / Test Report



**Client** : UIN-081608 and Power Public Company Limited  
 (11 Mo'o, Bangpakong Road, Bangpakong, Bangpakong, Saraburi Thailand 35140)

**P/O** :

**Project Name** : Factory / Monthly

**Project Location** : (300.52)

**Sample Number** : 2041012-1

**Sample Date** : Jun 26, 2025 9:25 AM

**Sample Description** : Group 2 Wastewater PHW-CT

**Contract ID** : 502\_2002\_2004 **Plot** : Plot 11 **Site** : SO2 Roofing Co Ltd

**Data Analysis Commented** : Jun 30, 2025

**Condition of Sample** : (Analyzed in three plastic bottles and one amber glass bottle, sample containers comply to international - preservation standards (APHA, USEPA))  
 (Yellow, colorless, some solid and no smell)

**Physical Property**

Wastewater	Unit	1000	10000	Result	Guideline / Spec./Kratom	Method	Pass/Fail
<b>Water Testing</b> SDS-10 (20 ml at 20 degree C)	mg/L		< 2.0	4.3	<100	Standard Method for the Examination of water and Wastewater, APHA, 1925 and 1997 2100-10, 2122, Jan 2012 and 2100-10, 2122, Jan 2012	Pass/Fail
COD	mg/L		< 25	28	<750	Standard Method for the Examination of water and Wastewater, APHA, 1925 and 1997 2100-10, 2122, Jan 2012 and 2100-10, 2122, Jan 2012	Pass/Fail
Oil & Grease	mg/L		< 3	<3	<10	Standard Method for the Examination of water and Wastewater, APHA, 1925 and 1997 2100-10, 2122, Jan 2012 and 2100-10, 2122, Jan 2012	Pass/Fail
pH (at 20°C)				7.2	5.5-9.0	Standard Method for the Examination of water and Wastewater, APHA, 1925 and 1997 2100-10, 2122, Jan 2012 and 2100-10, 2122, Jan 2012	Pass/Fail
Temperature °C	Degree C			31.1	<45	Standard Method for the Examination of water and Wastewater, APHA, 1925 and 1997 2100-10, 2122, Jan 2012 and 2100-10, 2122, Jan 2012	Pass/Fail
Total Suspended Solids Determined at 105-150 degree C	mg/L		< 5	8	<100	Standard Method for the Examination of water and Wastewater, APHA, 1925 and 1997 2100-10, 2122, Jan 2012 and 2100-10, 2122, Jan 2012	Pass/Fail

**TESTING**  
**NO: 55059**  
**Lab ID: 2045512**  
**Date Received** : Jun 09, 2025  
**Date Reported** : Jun 14, 2025  
**Report Number** : 20250715.4

Page 1 of 1

**Remarks** : Standard of UIN Saraburi Industrial Land, Maximum limits for wastewater discharging to central wastewater treatment plant.

**Remarks** :  
 1. Total of 10 bottles  
 2. 100 ml from 1000 (of Quantities) 1000 (of 1000)  
 3. Analytical method : 100 ml not included in error of calculation (SDS) 1000  
 4. Sampling is not included in error of calculation (SDS) 1000

**Technical Management**

*Siriluk P*

Siriluk Samart  
Section Head  
IN-04000-1 & 204-00013

**Approved by**

*Kaew Aue*

Kaewkarn Aue  
Assistant General Manager  
IN-04000-1 & 204-0009


This report is submitted under the authority of the Laboratory Director. The report shall not be released until it has been approved by the Laboratory Director.

ADDRESS: UIN-081608, Plot 11 Mo'o, Bangpakong Road, Bangpakong, Bangpakong, Saraburi Thailand 35140

PHONE: 08-2378 3800


Website: [www.alsglobal.com](http://www.alsglobal.com)

IN-04000-1 & 204-00013



**ALS**  
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LABORATORIES

## Analysis / Test Report



**TESTING**  
No.0009  
Lab ID: **2545632**  
Date Received: **Jun 13, 2025**  
Date Reported: **Jun 16, 2025**  
Report Number: **3300213-4**

---

**Client:** Uthairat and Power Public Company Limited  
111 Hilly / Bangpakong Road, Bangpakong, Bangpakong, Saraburi Thailand (SR40)

**P/O:**                      Factory 1 Monthly

**Project Location:** (SR40 LS)

**Sample Number:** 2545632-1

**Sample Date:** Jun 13, 2025 @ 09:45 AM

**Sample Description:** Group 2 Watermeter W99 C7

**Contract ID:** 101\_025\_2545632      **Phi:** (10%)

**Date Analysis Commenced:** Jun 13, 2025

**Condition of Sample:** Contained in one amber glass bottle and three plastic bottles, sample containers comply to pre-treatment - preservation standards (APHA/USEPA)

**Physical Property:** Yellow, some sediment, solid and not turbid

**Site:** SGC Roofing Co., Ltd.

**Top of 1**

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Analyzer	Unit	LOD 3.00	LOQ 3.00	Result	Guideline / Specification	Method	Bottle
Water Testing W002 (15 days at 20 degree C)	mg/L	> 2.0	< 2.0	0.000	Standard Methods for the Examination of water and Wastewater, APHA, 1995 & W99, 20th ed., part 9101 & W99, 20th ed., part 9101	Standard Methods for the Examination of water and Wastewater, APHA, 1995 & W99, 20th ed., part 9101 & W99, 20th ed., part 9101	Sargass
COO	mg/L	> 25	< 25	2750	Standard Methods for the Examination of water and Wastewater, APHA, 1995 & W99, 20th ed., part 9101 & W99, 20th ed., part 9101	Standard Methods for the Examination of water and Wastewater, APHA, 1995 & W99, 20th ed., part 9101 & W99, 20th ed., part 9101	Sargass
Oil & Grease	mg/L	> 3	< 3	110	Standard Methods for the Examination of water and Wastewater, APHA, 1995 & W99, 20th ed., part 9101 & W99, 20th ed., part 9101	Standard Methods for the Examination of water and Wastewater, APHA, 1995 & W99, 20th ed., part 9101 & W99, 20th ed., part 9101	Sargass
pH (on site) *	-	-	-	5.5-6.0	Standard Methods for the Examination of water and Wastewater, APHA, 1995 & W99, 20th ed., part 9101 & W99, 20th ed., part 9101	Standard Methods for the Examination of water and Wastewater, APHA, 1995 & W99, 20th ed., part 9101 & W99, 20th ed., part 9101	Sargass
Temperature *	Degree C	> 30.7	< 30.7	34.5	Standard Methods for the Examination of water and Wastewater, APHA, 1995 & W99, 20th ed., part 9101 & W99, 20th ed., part 9101	Standard Methods for the Examination of water and Wastewater, APHA, 1995 & W99, 20th ed., part 9101 & W99, 20th ed., part 9101	Sargass
Total Suspended Solids Dried at 102-105 Degree C	mg/L	> 8	< 8	< 200	Standard Methods for the Examination of water and Wastewater, APHA, 1995 & W99, 20th ed., part 9101 & W99, 20th ed., part 9101	Standard Methods for the Examination of water and Wastewater, APHA, 1995 & W99, 20th ed., part 9101 & W99, 20th ed., part 9101	Sargass

**Reference:** Standard of SR40 Saraburi Industrial Land, Maximum levels for wastewater treatment to central wastewater treatment plant.

**Remarks:** 1. Thermal Pollution (wastewater) > 20-40 degree Celsius

**Notes:**

- \* 100% (100% of detection)
- \* 1/2 (Lower than 100% of detection) (1/2 of detection)
- \* Assembly method: 1/2 and not included in water of Accreditation (SR40) (SR40)
- \* Sampling not included in scope of Accreditation (SR40) (SR40)

**Technical Representative**

Siriruk P

Siriruk Purnam  
Section Head  
In accordance of 2545632-0013

**Approved by**

Kornkarn A

Kornkarn Aree  
Assistant General Manager  
In accordance of 2545632-0008

Sample sent to laboratory in Saraburi, under the company's responsibility. The report represents the laboratory's findings and is not a guarantee of the quality of the sample.

ADDRESS: 114 Phatthanasirak Road, Phatthanasirak Rd., Bangpakong Suburb, Bang Pakong District, Saraburi 19150, Thailand | PHONE: +66 8 1768 8888 | FAX: +66 8 1768 9142  
E-MAIL: info@alsglobal.com | WWW.alsglobal.com

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<b>Client</b> WTA (Utilities and Power Public Company Limited) 111 New Town, Singapore Road, Singapore, Singapore Thailand 10140		<b>TESTING</b> No. 0009	
<b>P/P ID</b> Project Name : Factory 1 Reliability Project Location: HONG KONG		<b>Let ID: 2545919</b> Date Received : Jun 10, 2025 Date Reported : Jun 15, 2025 Report Number : 330001-2	
<b>Sample Number</b> Sampled Date Sample Description Container ID Date Analysis Commenced Condition of Sample Physical Property		(2545919-1) Jun 12, 2025 11:15 AM Group 2 Watermeter 1000 CWT 50, 500, 250A Jun 15, 2025 Contained in three plastic bottles and one amber glass bottle, sample containers comply to pretreatment - preservation standards (DIN EN 15289) Yellow, some solids, solid and no turbid	
<b>Analyte</b> Unit LOD LOQ Result Guidelines / Specifications Method Testing Location		Water Testing Total Dissolved Solids at 200 °C mg/L - 5 432 <3000 Standard Methods for the Examination of Water and Wastewater, 19th ed., 1995, 20th ed., 2023, part 2040 C Singapore	
Guidelines: Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resources and Environment and effluent standard for factories and industrial park set by Notification of the Ministry of Industry dated June 07, 8-2-2060 (2017). Sampling by : Singapore Environment Agency No. 206-4-0267			
Issues: 1. L1 : Limit of Detection 2. L2 : Lower than 10% (out of Quantitation) 10% (out of Reporting) 3. Analyte marked "A" is not included in water of Accreditation ISO/IEC 17025. Sampling is not included in water of Accreditation ISO/IEC 17025			
<b>Technical Management</b>  Sri Loka P. Senior Head mrslokaloka@wta.com.sg-206-4-0263		<b>Approved by</b>  Karthikeyan Ann Assistant General Manager mskarthikeyan@wta.com.sg-206-4-0204	
*Results valid for the period as certified, unless any pending test conditions, and the laboratory is not responsible for any error due to an external or internal factor.			
00100001-010 Phosphate (as P), Phosphate (as P), Fluoride (as F), Chloride (as Cl), Sulfate (as SO4) Thailand : Project No. 2545919-1, 2545919-2, 2545919-3, 2545919-4, 2545919-5, 2545919-6, 2545919-7, 2545919-8, 2545919-9, 2545919-10, 2545919-11, 2545919-12, 2545919-13, 2545919-14, 2545919-15, 2545919-16, 2545919-17, 2545919-18, 2545919-19, 2545919-20, 2545919-21, 2545919-22, 2545919-23, 2545919-24, 2545919-25, 2545919-26, 2545919-27, 2545919-28, 2545919-29, 2545919-30, 2545919-31, 2545919-32, 2545919-33, 2545919-34, 2545919-35, 2545919-36, 2545919-37, 2545919-38, 2545919-39, 2545919-40, 2545919-41, 2545919-42, 2545919-43, 2545919-44, 2545919-45, 2545919-46, 2545919-47, 2545919-48, 2545919-49, 2545919-50, 2545919-51, 2545919-52, 2545919-53, 2545919-54, 2545919-55, 2545919-56, 2545919-57, 2545919-58, 2545919-59, 2545919-60, 2545919-61, 2545919-62, 2545919-63, 2545919-64, 2545919-65, 2545919-66, 2545919-67, 2545919-68, 2545919-69, 2545919-70, 2545919-71, 2545919-72, 2545919-73, 2545919-74, 2545919-75, 2545919-76, 2545919-77, 2545919-78, 2545919-79, 2545919-80, 2545919-81, 2545919-82, 2545919-83, 2545919-84, 2545919-85, 2545919-86, 2545919-87, 2545919-88, 2545919-89, 2545919-90, 2545919-91, 2545919-92, 2545919-93, 2545919-94, 2545919-95, 2545919-96, 2545919-97, 2545919-98, 2545919-99, 2545919-100, 2545919-101, 2545919-102, 2545919-103, 2545919-104, 2545919-105, 2545919-106, 2545919-107, 2545919-108, 2545919-109, 2545919-110, 2545919-111, 2545919-112, 2545919-113, 2545919-114, 2545919-115, 2545919-116, 2545919-117, 2545919-118, 2545919-119, 2545919-120, 2545919-121, 2545919-122, 2545919-123, 2545919-124, 2545919-125, 2545919-126, 2545919-127, 2545919-128, 2545919-129, 2545919-130, 2545919-131, 2545919-132, 2545919-133, 2545919-134, 2545919-135, 2545919-136, 2545919-137, 2545919-138, 2545919-139, 2545919-140, 2545919-141, 2545919-142, 2545919-143, 2545919-144, 2545919-145, 2545919-146, 2545919-147, 2545919-148, 2545919-149, 2545919-150, 2545919-151, 2545919-152, 2545919-153, 2545919-154, 2545919-155, 2545919-156, 2545919-157, 2545919-158, 2545919-159, 2545919-160, 2545919-161, 2545919-162, 2545919-163, 2545919-164, 2545919-165, 2545919-166, 2545919-167, 2545919-168, 2545919-169, 2545919-170, 2545919-171, 2545919-172, 2545919-173, 2545919-174, 2545919-175, 2545919-176, 2545919-177, 2545919-178, 2545919-179, 2545919-180, 2545919-181, 2545919-182, 2545919-183, 2545919-184, 2545919-185, 2545919-186, 2545919-187, 2545919-188, 2545919-189, 2545919-190, 2545919-191, 2545919-192, 2545919-193, 2545919-194, 2545919-195, 2545919-196, 2545919-197, 2545919-198, 2545919-199, 2545919-200, 2545919-201, 2545919-202, 2545919-203, 2545919-204, 2545919-205, 2545919-206, 2545919-207, 2545919-208, 2545919-209, 2545919-210, 2545919-211, 2545919-212, 2545919-213, 2545919-214, 2545919-215, 2545919-216, 2545919-217, 2545919-218, 2545919-219, 2545919-220, 2545919-221, 2545919-222, 2545919-223, 2545919-224, 2545919-225, 2545919-226,			





ALS					LABORATORIAL ANALYSIS	
<b>Analysis / Test Report</b>					<b>TESTING</b> <b>No. 0059</b>	
<b>Client:</b> WOL Industries and Power Public Company Limited 113 Moo 7, Bangkang Road, Bangkung, Saraburi Thailand 35160					<b>Lot ID: 2549920</b> Date Received : Jun 16, 2025 Date Reported : Jun 16, 2025 Report Number : 338000-1	
<b>P/P / I:</b> <b>Project Name :</b> Factory / Ministry <b>Project Location :</b> THNA ISL					<b>Page 1 of 2</b>	
<b>Sample Number</b>	2549920-1					
<b>Sampling Date</b>	Jun 09, 2025 10:00 AM					
<b>Sample Description</b>	Core 2 Waterbody WHC-CF					
<b>Contract ID</b>	ISL_004_2004					
<b>Date Analysis Commenced</b>	Jun 15, 2025					
<b>Condition of Sample</b>	Container is one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards.					
<b>Physical Property</b>	Name, volume added, solid and no tested					
<b>Analyte</b>	<b>Unit</b>	<b>LOD</b>	<b>LOQ</b>	<b>Result</b>	<b>Qualifier / Specification</b>	<b>Testing Location</b>
<b>Water Testing</b>						
SOD : (ISO : at 20 degree C)	mg/L	-	2.0	59.0	< LOD	Standard Methods for the Examination of water and wastewater, APHA, 1995, 20th ed., 2023, part 1910-A, part 1910-B, part 1910-C
COD	mg/L	-	25	140	2150	Standard Methods for the Examination of water and wastewater, APHA, 1995, 20th ed., 2023, part 5220-D
Oil & Grease *	mg/L	-	3	<3	110	Standard Methods for the Examination of water and wastewater, APHA, 1995, 20th ed., 2023, part 5520-B
pH (on site)	-	-	-	7.3	3.5-8.5	Standard Methods for the Examination of water and wastewater, APHA, 1995, 20th ed., 2023, part 4500-H (+/-3)
Sulfide *	mg/L	-	0.5	<0.5	<1	Standard Methods for the Examination of water and wastewater, APHA, 1995, 20th ed., 2023, part 4500-S (-12), p1
Temperature *	Degree C	-	-	36.7	143	Standard Methods for the Examination of water and wastewater, APHA, 1995, 20th ed., 2023, part 2510-B
Total Suspended Solids dried at 103-105 degree C	mg/L	-	5	-	<200	Standard Methods for the Examination of water and wastewater, APHA, 1995, 20th ed., 2023, part 2540-D
<b>Glossary :</b> * Standard of WHO/Saraburi Industrial Land, Maximum levels for wastewater discharge to central wastewater treatment plants. <b>Symboling :</b> P = Obassential Method enducibility + 100-4+000?						
<b>Note(s) :</b> 1. LOD : Limit of Detection 2. "L" : Lower than 10% (out of Quantitation) : LOE (Limit of Reporting)						
<b>Technical Management</b>	<b>Siriluk P.</b> Siriluk Boonrak Section Head environment@wpp-0025		<b>Approved by</b> <u>Kanit AL</u> Kanitadorn Aue Business General Manager environment@wpp-0004			
* Photo will be taken in external office for printing or inspection in ALS. The photo will be taken by a staff who is not related to the laboratory.						
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WPP THAI SOLUTIONS						



