ภาคผนวก ค

ใบรับรองผลการวิเคราะห์

ภาคผนวก ค-1

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: 2589973
Date Received : Oct 29, 2025
Date Reported : Nov 06, 2025
Report Number: 3413591-1

Sample Description Air Quality
Location บริเวณสำนักงานบริษัท (GPS 47P 0698599, 1589315)
Date Analysis Commenced Oct 30, 2025
Condition of Sample Drawn into one glass filter paper (8x10 inch) placed in plastic bag and one quartz filter paper (8x10 inch) placed in plastic bag

Sample Number	Sampled Date	Sampling Condition Pressure (mm Hg)	Sampling Condition Temperature (°C)	Total Suspended Particulate (mg/m3)	Particulate Matter (PM-10) (mg/m3)
2589973-1	Oct 21 - Oct 22, 2025	757	31.0	0.091	0.047
2589973-2	Oct 22 - Oct 23, 2025	757	31.0	0.096	0.048
2589973-3	Oct 23 - Oct 24, 2025	757	31.0	0.048	0.026
2589973-4	Oct 24 - Oct 25, 2025	757	31.0	0.074	0.036
2589973-5	Oct 25 - Oct 26, 2025	757	31.0	0.068	0.033
2589973-6	Oct 26 - Oct 27, 2025	757	31.0	0.069	0.034
2589973-7	Oct 27 - Oct 28, 2025	757	31.0	0.088	0.043
Guideline		-	-	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 Metter (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 : Teeravut Sukdee

Approved by Orawan R.
Orawan Rakyong
Scientist (3)

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

Analysis / Test Report

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: 2589973
Date Received : Oct 29, 2025
Date Reported : Nov 06, 2025
Report Number: 3444438-1

Sample Description Air Quality
Location รร. วัดหนองปลาหมอ ชุมชนบ้านหนองผักชีใต้ (GPS 47P 0700737, 1590864)
Date Analysis Commenced Oct 30, 2025
Condition of Sample Drawn into one glass filter paper (8x10 inch) placed in plastic bag and one quartz filter paper (8x10 inch) placed in plastic bag

Sample Number	Sampled Date	Sampling Condition Pressure (mm Hg)	Sampling Condition Temperature (°C)	Total Suspended Particulate (mg/m3)	Particulate Matter (PM-10) (mg/m3)
2589973-22	Oct 21 - Oct 22, 2025	757	31.0	0.123	0.042
2589973-23	Oct 22 - Oct 23, 2025	757	31.0	0.111	0.055
2589973-24	Oct 23 - Oct 24, 2025	757	31.0	0.107	0.084
2589973-25	Oct 24 - Oct 25, 2025	757	31.0	0.057	0.032
2589973-26	Oct 25 - Oct 26, 2025	757	31.0	0.076	0.033
2589973-27	Oct 26 - Oct 27, 2025	757	31.0	0.073	0.038
2589973-28	Oct 27 - Oct 28, 2025	757	31.0	0.086	0.038
Guideline		-	-	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 Metter (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 : Teeravut Sukdee

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, Nongkhae, Saraburi Thailand 18140
P/O : 54250024
Project Name : Monitoring
Project Location : WHA SIL

Lot ID: 2589973
Date Received : Oct 29, 2025
Date Reported : Nov 06, 2025
Report Number: 3444437-1

Sample Description Air Quality
Location รร. วัดบัวลอย ชุมชนบ้านบัวลอยกลาง (GPS 47P 0698465, 1594331)
Date Analysis Commenced Oct 30, 2025
Condition of Sample Drawn into one glass filter paper (8x10 inch) placed in plastic bag and one quartz filter paper (8x10 inch) placed in plastic bag

Sample Number	Sampled Date	Sampling Condition Pressure (mm Hg)	Sampling Condition Temperature (°C)	Total Suspended Particulate (mg/m3)	Particulate Matter (PM-10) (mg/m3)
2589973-15	Oct 21 - Oct 22, 2025	757	31.0	0.044	0.030
2589973-16	Oct 22 - Oct 23, 2025	757	31.0	0.043	0.023
2589973-17	Oct 23 - Oct 24, 2025	757	31.0	0.036	0.020
2589973-18	Oct 24 - Oct 25, 2025	757	31.0	0.040	0.020
2589973-19	Oct 25 - Oct 26, 2025	757	31.0	0.045	0.021
2589973-20	Oct 26 - Oct 27, 2025	757	31.0	0.045	0.025
2589973-21	Oct 27 - Oct 28, 2025	757	31.0	0.059	0.033
Guideline		-	-	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 Metter (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 : Teeravut Sukdee

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, Nongkhae, Saraburi Thailand 18140
P/O : 54250024
Project Name : Monitoring
Project Location : WHA SIL

Lot ID: 2589973
Date Received : Oct 29, 2025
Date Reported : Nov 06, 2025
Report Number: 3444436-1

Sample Description Air Quality
Location รร. บ้านใหม่ทุ่งดินขอ ชุมชนบ้านใหม่ทุ่งดินขอ (GPS 47P 0697239, 1589433)
Date Analysis Commenced Oct 30, 2025
Condition of Sample Drawn into one glass filter paper (8x10 inch) placed in plastic bag and one quartz filter paper (8x10 inch) placed in plastic bag

Sample Number	Sampled Date	Sampling Condition Pressure (mm Hg)	Sampling Condition Temperature (°C)	Total Suspended Particulate (mg/m3)	Particulate Matter (PM-10) (mg/m3)
2589973-8	Oct 21 - Oct 22, 2025	757	31.0	0.056	0.039
2589973-9	Oct 22 - Oct 23, 2025	757	31.0	0.073	0.042
2589973-10	Oct 23 - Oct 24, 2025	757	31.0	0.070	0.046
2589973-11	Oct 24 - Oct 25, 2025	757	31.0	0.054	0.031
2589973-12	Oct 25 - Oct 26, 2025	757	31.0	0.057	0.031
2589973-13	Oct 26 - Oct 27, 2025	757	31.0	0.052	0.030
2589973-14	Oct 27 - Oct 28, 2025	757	31.0	0.054	0.030
Guideline		-	-	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 Metter (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 : Teeravut Sukdee

Approved by Orawan R.
Orawan Rakyong
Scientist (3)

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

Analysis / Test Report

Client : 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: 2589974
Date Received : Oct 29, 2025
Date Reported : Nov 04, 2025
Report Number: 3442187-1

Sample Description Air Quality
Location บริเวณสำนักงานบริษัท (GPS 47P 0698599, 1589315)
Parameter Sulfur Dioxide (ppm)
Measurement Date Oct 21, 2025 - Oct 28, 2025
Measurement by Teeravut Sukdee

Time	2589974-1 Oct 21, 2025	2589974-2 Oct 22, 2025	2589974-3 Oct 23, 2025	2589974-4 Oct 24, 2025	2589974-5 Oct 25, 2025	2589974-6 Oct 26, 2025	2589974-7 Oct 27, 2025
09:00 AM - 10:00 AM	0.0020	0.0011	0.0017	0.0016	0.0014	0.0012	0.0011
10:00 AM - 11:00 AM	0.0020	0.0017	0.0017	0.0017	0.0011	0.0014	0.0016
11:00 AM - 12:00 PM	0.0024	0.0019	0.0012	0.0012	0.0014	0.0011	0.0007
12:00 PM - 01:00 PM	0.0021	0.0013	0.0012	0.0008	0.0011	0.0010	0.0013
01:00 PM - 02:00 PM	0.0023	0.0019	0.0013	0.0009	0.0014	0.0012	0.0012
02:00 PM - 03:00 PM	0.0023	0.0011	0.0014	0.0004	0.0013	0.0007	0.0041
03:00 PM - 04:00 PM	0.0022	0.0015	0.0012	0.0006	0.0008	0.0003	0.0012
04:00 PM - 05:00 PM	0.0023	0.0020	0.0015	0.0012	0.0011	0.0010	0.0015
05:00 PM - 06:00 PM	0.0024	0.0022	0.0016	0.0015	0.0013	0.0013	0.0017
06:00 PM - 07:00 PM	0.0023	0.0021	0.0015	0.0016	0.0014	0.0013	0.0017
07:00 PM - 08:00 PM	0.0021	0.0019	0.0017	0.0015	0.0015	0.0014	0.0016
08:00 PM - 09:00 PM	0.0020	0.0019	0.0016	0.0015	0.0014	0.0013	0.0016
09:00 PM - 10:00 PM	0.0019	0.0018	0.0015	0.0013	0.0015	0.0011	0.0016
10:00 PM - 11:00 PM	0.0019	0.0017	0.0016	0.0015	0.0018	0.0011	0.0019
11:00 PM - 12:00 AM	0.0019	0.0017	0.0015	0.0016	0.0019	0.0011	0.0017
12:00 AM - 01:00 AM	0.0018	0.0018	0.0017	0.0016	0.0015	0.0014	0.0015
01:00 AM - 02:00 AM	0.0019	0.0017	0.0015	0.0014	0.0013	0.0014	0.0015
02:00 AM - 03:00 AM	0.0019	0.0018	0.0015	0.0014	0.0015	0.0014	0.0015
03:00 AM - 04:00 AM	0.0016	0.0018	0.0016	0.0013	0.0017	0.0012	0.0013
04:00 AM - 05:00 AM	0.0018	0.0020	0.0016	0.0016	0.0018	0.0013	0.0015
05:00 AM - 06:00 AM	0.0021	0.0023	0.0021	0.0021	0.0016	0.0016	0.0019
06:00 AM - 07:00 AM	0.0021	0.0025	0.0016	0.0018	0.0014	0.0017	0.0019
07:00 AM - 08:00 AM	0.0019	0.0021	0.0016	0.0019	0.0014	0.0016	0.0015
08:00 AM - 09:00 AM	0.0016	0.0020	0.0020	0.0017	0.0019	0.0018	0.0018
Average	0.0020	0.0018	0.0016	0.0014	0.0014	0.0012	0.0016
1hr - Maximum	0.0024	0.0025	0.0021	0.0021	0.0019	0.0018	0.0041
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 : U.S. Environmental Protection Agency, EPA Method Part 53 and 58

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
Saranya C.
Saranya Chalermthamrong
Scientist (4)

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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: 2589974
Date Received : Oct 29, 2025
Date Reported : Nov 04, 2025
Report Number: 3413592-1

Sample Description Air Quality
Location รร. วัดหนองปลาหมอ ชุมชนบ้านหนองผักชีใต้ (GPS 47P 0700737, 1590864)
Parameter Sulfur Dioxide (ppm)
Measurement Date Oct 21, 2025 - Oct 28, 2025
Measurement by Teeravut Sukdee

Time	2589974-22 Oct 21, 2025	2589974-23 Oct 22, 2025	2589974-24 Oct 23, 2025	2589974-25 Oct 24, 2025	2589974-26 Oct 25, 2025	2589974-27 Oct 26, 2025	2589974-28 Oct 27, 2025
11:00 AM - 12:00 PM	0.0050	0.0059	0.0044	0.0024	0.0015	0.0014	0.0012
12:00 PM - 01:00 PM	0.0053	0.0063	0.0039	0.0022	0.0015	0.0014	0.0014
01:00 PM - 02:00 PM	0.0092	0.0062	0.0037	0.0024	0.0014	0.0014	0.0012
02:00 PM - 03:00 PM	0.0092	0.0060	0.0040	0.0024	0.0015	0.0015	0.0012
03:00 PM - 04:00 PM	0.0087	0.0058	0.0037	0.0019	0.0017	0.0012	0.0012
04:00 PM - 05:00 PM	0.0084	0.0056	0.0037	0.0020	0.0016	0.0012	0.0010
05:00 PM - 06:00 PM	0.0082	0.0055	0.0036	0.0022	0.0016	0.0012	0.0011
06:00 PM - 07:00 PM	0.0076	0.0054	0.0034	0.0019	0.0014	0.0013	0.0011
07:00 PM - 08:00 PM	0.0073	0.0051	0.0032	0.0020	0.0012	0.0015	0.0010
08:00 PM - 09:00 PM	0.0073	0.0051	0.0031	0.0019	0.0012	0.0013	0.0011
09:00 PM - 10:00 PM	0.0068	0.0050	0.0031	0.0019	0.0012	0.0012	0.0010
10:00 PM - 11:00 PM	0.0066	0.0050	0.0030	0.0014	0.0012	0.0012	0.0008
11:00 PM - 12:00 AM	0.0070	0.0049	0.0030	0.0016	0.0013	0.0012	0.0009
12:00 AM - 01:00 AM	0.0068	0.0046	0.0030	0.0016	0.0012	0.0012	0.0010
01:00 AM - 02:00 AM	0.0068	0.0045	0.0029	0.0017	0.0012	0.0010	0.0009
02:00 AM - 03:00 AM	0.0067	0.0048	0.0031	0.0018	0.0013	0.0012	0.0009
03:00 AM - 04:00 AM	0.0068	0.0042	0.0029	0.0013	0.0011	0.0012	0.0012
04:00 AM - 05:00 AM	0.0064	0.0043	0.0028	0.0017	0.0011	0.0008	0.0010
05:00 AM - 06:00 AM	0.0063	0.0046	0.0028	0.0015	0.0012	0.0012	0.0010
06:00 AM - 07:00 AM	0.0062	0.0043	0.0026	0.0015	0.0009	0.0011	0.0011
07:00 AM - 08:00 AM	0.0062	0.0042	0.0025	0.0014	0.0015	0.0012	0.0009
08:00 AM - 09:00 AM	0.0062	0.0043	0.0025	0.0015	0.0011	0.0011	0.0012
09:00 AM - 10:00 AM	0.0060	0.0043	0.0024	0.0013	0.0014	0.0008	0.0010
10:00 AM - 11:00 AM	0.0057	0.0039	0.0023	0.0015	0.0016	0.0010	0.0010
Average	0.0069	0.0050	0.0032	0.0018	0.0013	0.0012	0.0011
1hr - Maximum	0.0092	0.0063	0.0044	0.0024	0.0017	0.0015	0.0014
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 : U.S. Environmental Protection Agency, EPA Method Part 53 and 58

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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Saranya Chalermthamrong
Scientist (4)

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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: 2589974
Date Received : Oct 29, 2025
Date Reported : Nov 04, 2025
Report Number: 3442192-1

Sample Description Air Quality
Location รร. วัดบัวลอย ชุมชนบ้านบัวลอยกลาง (GPS 47P 0698465, 1594331)
Parameter Sulfur Dioxide (ppm)
Measurement Date Oct 21, 2025 - Oct 28, 2025
Measurement by Teeravut Sukdee

Time	2589974-15 Oct 21, 2025	2589974-16 Oct 22, 2025	2589974-17 Oct 23, 2025	2589974-18 Oct 24, 2025	2589974-19 Oct 25, 2025	2589974-20 Oct 26, 2025	2589974-21 Oct 27, 2025
12:00 PM - 01:00 PM	0.0012	0.0002	0.0002	0.0003	0.0005	0.0009	0.0007
01:00 PM - 02:00 PM	0.0010	0.0005	0.0004	0.0003	0.0004	0.0010	0.0008
02:00 PM - 03:00 PM	0.0011	0.0003	0.0004	0.0003	0.0006	0.0011	0.0010
03:00 PM - 04:00 PM	0.0009	0.0002	0.0006	0.0004	0.0003	0.0011	0.0011
04:00 PM - 05:00 PM	0.0007	0.0004	0.0006	0.0010	0.0003	0.0012	0.0010
05:00 PM - 06:00 PM	0.0008	0.0007	0.0007	0.0009	0.0002	0.0012	0.0020
06:00 PM - 07:00 PM	0.0003	0.0006	0.0007	0.0009	0.0002	0.0010	0.0029
07:00 PM - 08:00 PM	0.0011	0.0004	0.0008	0.0013	0.0002	0.0011	0.0007
08:00 PM - 09:00 PM	0.0012	0.0005	0.0009	0.0010	0.0006	0.0008	0.0009
09:00 PM - 10:00 PM	0.0012	0.0003	0.0010	0.0009	0.0006	0.0005	0.0004
10:00 PM - 11:00 PM	0.0006	0.0002	0.0011	0.0013	0.0046	0.0004	0.0007
11:00 PM - 12:00 AM	0.0022	0.0002	0.0012	0.0012	0.0027	0.0004	0.0004
12:00 AM - 01:00 AM	0.0004	0.0002	0.0013	0.0006	0.0014	0.0003	0.0004
01:00 AM - 02:00 AM	0.0003	0.0003	0.0013	0.0005	0.0003	0.0006	0.0003
02:00 AM - 03:00 AM	0.0009	0.0002	0.0010	0.0007	0.0002	0.0020	0.0003
03:00 AM - 04:00 AM	0.0002	0.0005	0.0009	0.0004	0.0004	0.0003	0.0002
04:00 AM - 05:00 AM	0.0012	0.0014	0.0008	0.0004	0.0009	0.0003	0.0008
05:00 AM - 06:00 AM	0.0010	0.0021	0.0006	0.0027	0.0006	0.0002	0.0007
06:00 AM - 07:00 AM	0.0013	0.0006	0.0006	0.0032	0.0002	0.0003	0.0004
07:00 AM - 08:00 AM	0.0015	0.0021	0.0004	0.0012	0.0009	0.0002	0.0004
08:00 AM - 09:00 AM	0.0014	0.0008	0.0004	0.0010	0.0015	0.0006	0.0055
09:00 AM - 10:00 AM	0.0013	0.0004	0.0005	0.0012	0.0006	0.0015	0.0049
10:00 AM - 11:00 AM	0.0004	0.0002	0.0005	0.0010	0.0007	0.0017	0.0041
11:00 AM - 12:00 PM	0.0004	0.0002	0.0005	0.0009	0.0002	0.0011	0.0037
Average	0.0009	0.0006	0.0007	0.0010	0.0008	0.0008	0.0014
1hr - Maximum	0.0022	0.0021	0.0013	0.0032	0.0046	0.0020	0.0055
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 : U.S. Environmental Protection Agency, EPA Method Part 53 and 58

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Approved by
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Saranya Chalermthamrong
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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: 2589974
Date Received : Oct 29, 2025
Date Reported : Nov 04, 2025
Report Number: 3442189-1

Sample Description Air Quality
Location รร. บ้านใหม่ทุ่งดินขอ ชุมชนบ้านใหม่ทุ่งดินขอ (GPS 47P 0697239, 1589433)
Parameter Sulfur Dioxide (ppm)
Measurement Date Oct 21, 2025 - Oct 28, 2025
Measurement by Teeravut Sukdee

Time	2589974-8 Oct 21, 2025	2589974-9 Oct 22, 2025	2589974-10 Oct 23, 2025	2589974-11 Oct 24, 2025	2589974-12 Oct 25, 2025	2589974-13 Oct 26, 2025	2589974-14 Oct 27, 2025
10:00 AM - 11:00 AM	0.0012	0.0012	0.0011	0.0010	0.0010	0.0011	0.0013
11:00 AM - 12:00 PM	0.0010	0.0013	0.0011	0.0011	0.0011	0.0011	0.0011
12:00 PM - 01:00 PM	0.0015	0.0013	0.0010	0.0011	0.0011	0.0011	0.0009
01:00 PM - 02:00 PM	0.0013	0.0012	0.0011	0.0011	0.0011	0.0011	0.0009
02:00 PM - 03:00 PM	0.0014	0.0012	0.0011	0.0011	0.0011	0.0011	0.0009
03:00 PM - 04:00 PM	0.0014	0.0012	0.0011	0.0011	0.0011	0.0011	0.0010
04:00 PM - 05:00 PM	0.0013	0.0012	0.0011	0.0011	0.0011	0.0011	0.0011
05:00 PM - 06:00 PM	0.0014	0.0013	0.0012	0.0013	0.0012	0.0011	0.0010
06:00 PM - 07:00 PM	0.0014	0.0021	0.0013	0.0013	0.0012	0.0012	0.0022
07:00 PM - 08:00 PM	0.0014	0.0019	0.0012	0.0014	0.0012	0.0013	0.0011
08:00 PM - 09:00 PM	0.0014	0.0027	0.0012	0.0012	0.0015	0.0012	0.0007
09:00 PM - 10:00 PM	0.0013	0.0014	0.0013	0.0012	0.0013	0.0012	0.0008
10:00 PM - 11:00 PM	0.0013	0.0013	0.0012	0.0013	0.0023	0.0012	0.0008
11:00 PM - 12:00 AM	0.0013	0.0013	0.0012	0.0016	0.0016	0.0012	0.0010
12:00 AM - 01:00 AM	0.0013	0.0012	0.0012	0.0014	0.0014	0.0012	0.0010
01:00 AM - 02:00 AM	0.0013	0.0012	0.0013	0.0013	0.0009	0.0014	0.0008
02:00 AM - 03:00 AM	0.0013	0.0021	0.0011	0.0013	0.0013	0.0015	0.0008
03:00 AM - 04:00 AM	0.0013	0.0013	0.0013	0.0011	0.0009	0.0013	0.0009
04:00 AM - 05:00 AM	0.0013	0.0013	0.0013	0.0011	0.0009	0.0012	0.0007
05:00 AM - 06:00 AM	0.0012	0.0013	0.0012	0.0013	0.0010	0.0013	0.0011
06:00 AM - 07:00 AM	0.0012	0.0012	0.0012	0.0012	0.0010	0.0013	0.0007
07:00 AM - 08:00 AM	0.0012	0.0012	0.0011	0.0012	0.0011	0.0012	0.0008
08:00 AM - 09:00 AM	0.0012	0.0012	0.0011	0.0012	0.0011	0.0013	0.0007
09:00 AM - 10:00 AM	0.0012	0.0012	0.0010	0.0011	0.0010	0.0013	0.0007
Average	0.0013	0.0014	0.0012	0.0012	0.0012	0.0012	0.0010
1hr - Maximum	0.0015	0.0027	0.0013	0.0016	0.0023	0.0015	0.0022
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 : U.S. Environmental Protection Agency, EPA Method Part 53 and 58

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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ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

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: 2589972
Date Received : Oct 29, 2025
Date Reported : Nov 04, 2025
Report Number: 3442172-1

Sample Description Air Quality
Location บริเวณสำนักงานบริษัท (GPS 47P 0698599, 1589315)
Parameter Nitrogen dioxide (ppm)
Measurement Date Oct 21, 2025 - Oct 28, 2025
Measurement by Teeravut Sukdee

Time	2589972-1 Oct 21, 2025	2589972-2 Oct 22, 2025	2589972-3 Oct 23, 2025	2589972-4 Oct 24, 2025	2589972-5 Oct 25, 2025	2589972-6 Oct 26, 2025	2589972-7 Oct 27, 2025
09:00 AM - 10:00 AM	0.0117	0.0179	0.0143	0.0145	0.0157	0.0147	0.0194
10:00 AM - 11:00 AM	0.0115	0.0166	0.0148	0.0116	0.0157	0.0140	0.0183
11:00 AM - 12:00 PM	0.0134	0.0173	0.0164	0.0131	0.0155	0.0148	0.0184
12:00 PM - 01:00 PM	0.0186	0.0179	0.0160	0.0135	0.0164	0.0151	0.0179
01:00 PM - 02:00 PM	0.0249	0.0188	0.0172	0.0166	0.0182	0.0162	0.0197
02:00 PM - 03:00 PM	0.0261	0.0205	0.0229	0.0237	0.0181	0.0170	0.0183
03:00 PM - 04:00 PM	0.0296	0.0258	0.0216	0.0236	0.0252	0.0175	0.0252
04:00 PM - 05:00 PM	0.0315	0.0281	0.0214	0.0230	0.0242	0.0183	0.0297
05:00 PM - 06:00 PM	0.0292	0.0282	0.0211	0.0256	0.0268	0.0201	0.0298
06:00 PM - 07:00 PM	0.0294	0.0259	0.0199	0.0253	0.0252	0.0173	0.0239
07:00 PM - 08:00 PM	0.0255	0.0249	0.0169	0.0225	0.0222	0.0157	0.0206
08:00 PM - 09:00 PM	0.0219	0.0246	0.0182	0.0242	0.0208	0.0152	0.0243
09:00 PM - 10:00 PM	0.0246	0.0244	0.0185	0.0227	0.0251	0.0188	0.0239
10:00 PM - 11:00 PM	0.0259	0.0217	0.0158	0.0207	0.0234	0.0173	0.0209
11:00 PM - 12:00 AM	0.0235	0.0194	0.0121	0.0176	0.0187	0.0143	0.0159
12:00 AM - 01:00 AM	0.0222	0.0163	0.0107	0.0165	0.0185	0.0147	0.0203
01:00 AM - 02:00 AM	0.0230	0.0156	0.0112	0.0169	0.0162	0.0173	0.0177
02:00 AM - 03:00 AM	0.0206	0.0152	0.0110	0.0160	0.0167	0.0189	0.0136
03:00 AM - 04:00 AM	0.0179	0.0154	0.0126	0.0194	0.0222	0.0170	0.0151
04:00 AM - 05:00 AM	0.0193	0.0169	0.0197	0.0227	0.0210	0.0186	0.0174
05:00 AM - 06:00 AM	0.0221	0.0212	0.0237	0.0264	0.0201	0.0233	0.0215
06:00 AM - 07:00 AM	0.0202	0.0187	0.0206	0.0201	0.0187	0.0220	0.0213
07:00 AM - 08:00 AM	0.0176	0.0146	0.0158	0.0155	0.0145	0.0210	0.0215
08:00 AM - 09:00 AM	0.0173	0.0133	0.0159	0.0140	0.0125	0.0191	0.0222
Average	0.0220	0.0200	0.0170	0.0194	0.0196	0.0174	0.0207
1hr - Maximum	0.0315	0.0282	0.0237	0.0264	0.0268	0.0233	0.0298
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 : U.S. Environmental Protection AgencyMethod 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.

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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: 2589972
Date Received : Oct 29, 2025
Date Reported : Nov 04, 2025
Report Number: 3413590-1

Sample Description Air Quality
Location รร. วัดหนองปลาหมอ ชุมชนบ้านหนองผักชีใต้ (GPS 47P 0700737, 1590864)
Parameter Nitrogen dioxide (ppm)
Measurement Date Oct 21, 2025 - Oct 28, 2025
Measurement by Teeravut Sukdee

Time	2589972-22 Oct 21, 2025	2589972-23 Oct 22, 2025	2589972-24 Oct 23, 2025	2589972-25 Oct 24, 2025	2589972-26 Oct 25, 2025	2589972-27 Oct 26, 2025	2589972-28 Oct 27, 2025
11:00 AM - 12:00 PM	0.0051	0.0096	0.0065	0.0085	0.0065	0.0040	0.0081
12:00 PM - 01:00 PM	0.0048	0.0085	0.0058	0.0099	0.0059	0.0040	0.0059
01:00 PM - 02:00 PM	0.0076	0.0093	0.0074	0.0114	0.0057	0.0041	0.0055
02:00 PM - 03:00 PM	0.0062	0.0071	0.0083	0.0127	0.0091	0.0044	0.0101
03:00 PM - 04:00 PM	0.0137	0.0166	0.0107	0.0093	0.0120	0.0065	0.0160
04:00 PM - 05:00 PM	0.0171	0.0179	0.0135	0.0157	0.0154	0.0097	0.0257
05:00 PM - 06:00 PM	0.0162	0.0167	0.0075	0.0144	0.0141	0.0142	0.0227
06:00 PM - 07:00 PM	0.0187	0.0141	0.0065	0.0130	0.0163	0.0101	0.0152
07:00 PM - 08:00 PM	0.0141	0.0153	0.0139	0.0125	0.0119	0.0094	0.0166
08:00 PM - 09:00 PM	0.0109	0.0195	0.0132	0.0164	0.0157	0.0118	0.0151
09:00 PM - 10:00 PM	0.0106	0.0164	0.0109	0.0160	0.0187	0.0174	0.0134
10:00 PM - 11:00 PM	0.0195	0.0126	0.0090	0.0149	0.0213	0.0131	0.0111
11:00 PM - 12:00 AM	0.0154	0.0110	0.0074	0.0113	0.0147	0.0077	0.0102
12:00 AM - 01:00 AM	0.0178	0.0114	0.0066	0.0079	0.0126	0.0100	0.0086
01:00 AM - 02:00 AM	0.0143	0.0099	0.0065	0.0089	0.0108	0.0100	0.0086
02:00 AM - 03:00 AM	0.0134	0.0122	0.0070	0.0093	0.0128	0.0122	0.0078
03:00 AM - 04:00 AM	0.0129	0.0125	0.0066	0.0118	0.0193	0.0137	0.0123
04:00 AM - 05:00 AM	0.0147	0.0128	0.0077	0.0133	0.0186	0.0124	0.0119
05:00 AM - 06:00 AM	0.0159	0.0171	0.0084	0.0119	0.0168	0.0161	0.0152
06:00 AM - 07:00 AM	0.0146	0.0149	0.0080	0.0071	0.0095	0.0178	0.0179
07:00 AM - 08:00 AM	0.0081	0.0072	0.0062	0.0057	0.0062	0.0180	0.0182
08:00 AM - 09:00 AM	0.0090	0.0069	0.0081	0.0072	0.0065	0.0130	0.0184
09:00 AM - 10:00 AM	0.0067	0.0070	0.0086	0.0088	0.0054	0.0074	0.0201
10:00 AM - 11:00 AM	0.0060	0.0101	0.0090	0.0073	0.0045	0.0078	0.0155
Average	0.0122	0.0124	0.0085	0.0110	0.0121	0.0106	0.0138
1hr - Maximum	0.0195	0.0195	0.0139	0.0164	0.0213	0.0180	0.0257
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 : U.S. Environmental Protection AgencyMethod Part 50 App. F (Chemiluminescence)

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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: 2589972
Date Received : Oct 29, 2025
Date Reported : Nov 04, 2025
Report Number: 3442180-1

Sample Description Air Quality
Location รร. วัดบัวลอย ชุมชนบ้านบัวลอยกลาง (GPS 47P 0698465, 1594331)
Parameter Nitrogen dioxide (ppm)
Measurement Date Oct 21, 2025 - Oct 28, 2025
Measurement by Teeravut Sukdee

Time	2589972-15 Oct 21, 2025	2589972-16 Oct 22, 2025	2589972-17 Oct 23, 2025	2589972-18 Oct 24, 2025	2589972-19 Oct 25, 2025	2589972-20 Oct 26, 2025	2589972-21 Oct 27, 2025
12:00 PM - 01:00 PM	0.0033	0.0046	0.0018	0.0023	0.0023	0.0012	0.0050
01:00 PM - 02:00 PM	0.0022	0.0031	0.0021	0.0030	0.0038	0.0015	0.0024
02:00 PM - 03:00 PM	0.0021	0.0034	0.0024	0.0043	0.0037	0.0012	0.0025
03:00 PM - 04:00 PM	0.0072	0.0065	0.0048	0.0100	0.0050	0.0016	0.0045
04:00 PM - 05:00 PM	0.0101	0.0106	0.0097	0.0145	0.0064	0.0038	0.0104
05:00 PM - 06:00 PM	0.0119	0.0176	0.0124	0.0156	0.0079	0.0064	0.0182
06:00 PM - 07:00 PM	0.0168	0.0249	0.0119	0.0201	0.0071	0.0048	0.0137
07:00 PM - 08:00 PM	0.0117	0.0279	0.0120	0.0097	0.0082	0.0031	0.0079
08:00 PM - 09:00 PM	0.0152	0.0235	0.0097	0.0094	0.0094	0.0059	0.0113
09:00 PM - 10:00 PM	0.0199	0.0133	0.0074	0.0192	0.0206	0.0060	0.0116
10:00 PM - 11:00 PM	0.0242	0.0110	0.0069	0.0201	0.0209	0.0119	0.0082
11:00 PM - 12:00 AM	0.0133	0.0097	0.0029	0.0170	0.0173	0.0058	0.0063
12:00 AM - 01:00 AM	0.0108	0.0099	0.0030	0.0145	0.0121	0.0095	0.0059
01:00 AM - 02:00 AM	0.0122	0.0087	0.0028	0.0046	0.0095	0.0080	0.0044
02:00 AM - 03:00 AM	0.0072	0.0106	0.0033	0.0036	0.0101	0.0073	0.0055
03:00 AM - 04:00 AM	0.0128	0.0102	0.0045	0.0099	0.0145	0.0091	0.0044
04:00 AM - 05:00 AM	0.0125	0.0103	0.0032	0.0250	0.0162	0.0070	0.0053
05:00 AM - 06:00 AM	0.0106	0.0133	0.0023	0.0255	0.0129	0.0097	0.0061
06:00 AM - 07:00 AM	0.0115	0.0165	0.0024	0.0119	0.0110	0.0090	0.0083
07:00 AM - 08:00 AM	0.0089	0.0099	0.0023	0.0032	0.0066	0.0117	0.0170
08:00 AM - 09:00 AM	0.0053	0.0054	0.0018	0.0023	0.0013	0.0106	0.0160
09:00 AM - 10:00 AM	0.0019	0.0020	0.0013	0.0018	0.0016	0.0117	0.0158
10:00 AM - 11:00 AM	0.0021	0.0020	0.0042	0.0021	0.0023	0.0060	0.0181
11:00 AM - 12:00 PM	0.0039	0.0039	0.0027	0.0025	0.0010	0.0034	0.0127
Average	0.0099	0.0108	0.0049	0.0105	0.0088	0.0065	0.0092
1hr - Maximum	0.0242	0.0279	0.0124	0.0255	0.0209	0.0119	0.0182
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 : U.S. Environmental Protection AgencyMethod 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.

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Analysis / Test Report

Client : WHA Saraburi Industrial Land Co., Ltd.
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P/O : 54250024
Project Name : Monitoring
Project Location : WHA SIL

Lot ID: 2589972
Date Received : Oct 29, 2025
Date Reported : Nov 04, 2025
Report Number: 3442177-1

Sample Description Air Quality
Location รร. บ้านใหม่ทุ่งดินขอ ชุมชนบ้านใหม่ทุ่งดินขอ (GPS 47P 0697239, 1589433)
Parameter Nitrogen dioxide (ppm)
Measurement Date Oct 21, 2025 - Oct 28, 2025
Measurement by Teeravut Sukdee

Time	2589972-8 Oct 21, 2025	2589972-9 Oct 22, 2025	2589972-10 Oct 23, 2025	2589972-11 Oct 24, 2025	2589972-12 Oct 25, 2025	2589972-13 Oct 26, 2025	2589972-14 Oct 27, 2025
10:00 AM - 11:00 AM	0.0058	0.0089	0.0077	0.0042	0.0037	0.0019	0.0078
11:00 AM - 12:00 PM	0.0061	0.0080	0.0043	0.0027	0.0052	0.0021	0.0063
12:00 PM - 01:00 PM	0.0070	0.0073	0.0021	0.0021	0.0034	0.0026	0.0027
01:00 PM - 02:00 PM	0.0097	0.0050	0.0023	0.0028	0.0046	0.0021	0.0021
02:00 PM - 03:00 PM	0.0053	0.0104	0.0046	0.0084	0.0060	0.0015	0.0022
03:00 PM - 04:00 PM	0.0076	0.0136	0.0070	0.0148	0.0082	0.0026	0.0054
04:00 PM - 05:00 PM	0.0144	0.0167	0.0099	0.0108	0.0107	0.0051	0.0191
05:00 PM - 06:00 PM	0.0133	0.0179	0.0087	0.0249	0.0128	0.0056	0.0372
06:00 PM - 07:00 PM	0.0137	0.0187	0.0047	0.0180	0.0147	0.0061	0.0108
07:00 PM - 08:00 PM	0.0130	0.0186	0.0073	0.0125	0.0128	0.0068	0.0060
08:00 PM - 09:00 PM	0.0174	0.0189	0.0149	0.0130	0.0109	0.0053	0.0078
09:00 PM - 10:00 PM	0.0148	0.0130	0.0116	0.0289	0.0235	0.0100	0.0086
10:00 PM - 11:00 PM	0.0297	0.0075	0.0109	0.0193	0.0229	0.0062	0.0063
11:00 PM - 12:00 AM	0.0111	0.0076	0.0101	0.0150	0.0159	0.0045	0.0045
12:00 AM - 01:00 AM	0.0101	0.0197	0.0080	0.0091	0.0180	0.0066	0.0039
01:00 AM - 02:00 AM	0.0094	0.0270	0.0061	0.0071	0.0179	0.0063	0.0030
02:00 AM - 03:00 AM	0.0065	0.0172	0.0244	0.0062	0.0107	0.0050	0.0036
03:00 AM - 04:00 AM	0.0080	0.0191	0.0179	0.0106	0.0109	0.0063	0.0103
04:00 AM - 05:00 AM	0.0106	0.0146	0.0072	0.0306	0.0113	0.0051	0.0126
05:00 AM - 06:00 AM	0.0111	0.0205	0.0091	0.0355	0.0093	0.0078	0.0072
06:00 AM - 07:00 AM	0.0130	0.0147	0.0079	0.0089	0.0104	0.0177	0.0134
07:00 AM - 08:00 AM	0.0105	0.0177	0.0049	0.0038	0.0068	0.0145	0.0224
08:00 AM - 09:00 AM	0.0096	0.0136	0.0032	0.0032	0.0023	0.0089	0.0168
09:00 AM - 10:00 AM	0.0091	0.0063	0.0058	0.0030	0.0054	0.0123	0.0200
Average	0.0111	0.0143	0.0084	0.0123	0.0108	0.0064	0.0100
1hr - Maximum	0.0297	0.0270	0.0244	0.0355	0.0235	0.0177	0.0372
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 : U.S. Environmental Protection AgencyMethod Part 50 App. F (Chemiluminescence)

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Analysis / Test Report

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

Lot ID: 2589975
Date Received :Oct 29, 2025
Date Reported :Nov 04, 2025
Report Number :3413593-1

P/O : 54250024
Project Name : Monitoring
Project Location : WHA SIL

Sample Number 2589975-1 to 7
Parameter Wind Speed / Wind Direction
Location บริเวณสำนักงานบริษัท (GPS 47P 0698599, 1589315)
Sampling Date Oct 21 - Oct 28, 2025
Sampling by Teeravut Sukdee

Time	Oct 21 - Oct 22, 2025			Oct 22 - Oct 23, 2025			Oct 23 - Oct 24, 2025			Oct 24 - Oct 25, 2025			Oct 25 - Oct 26, 2025			Oct 26 - Oct 27, 2025			Oct 27 - Oct 28, 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	0.9	53.0	NE	0.8	78.0	ENE	3.1	95.0	E	0.8	343.0	NNW	2.2	29.0	NNE	1.4	74.0	ENE	1.5	359.0	N
10:00 AM - 11:00 AM	1.0	12.0	NNE	1.2	2.0	N	4.4	95.0	E	0.4	117.0	ESE	2.1	10.0	N	1.6	21.0	NNE	3.3	14.0	NNE
11:00 AM - 12:00 PM	2.5	93.0	E	1.1	359.0	N	1.5	12.0	NNE	0.7	238.0	WSW	1.9	39.0	NE	1.2	129.0	SE	1.4	94.0	E
12:00 PM - 01:00 PM	0.8	68.0	ENE	1.8	42.0	NE	2.6	13.0	NNE	2.1	255.0	WSW	3.1	50.0	NE	4.7	359.0	N	2.4	19.0	NNE
01:00 PM - 02:00 PM	5.3	40.0	NE	4.0	28.0	NNE	1.4	33.0	NNE	0.7	117.0	ESE	3.3	11.0	N	1.2	93.0	E	1.7	116.0	ESE
02:00 PM - 03:00 PM	1.1	26.0	NNE	3.9	345.0	NNW	1.6	70.0	ENE	2.7	281.0	W	1.9	15.0	NNE	2.9	101.0	E	1.0	111.0	ESE
03:00 PM - 04:00 PM	2.1	25.0	NNE	1.8	137.0	SE	1.8	116.0	ESE	0.7	35.0	NE	2.4	27.0	NNE	0.8	39.0	NE	2.0	68.0	ENE
04:00 PM - 05:00 PM	2.0	90.0	E	0.6	69.0	ENE	0.8	40.0	NE	2.6	359.0	N	1.1	0.0	N	1.1	46.0	NE	1.7	49.0	NE
05:00 PM - 06:00 PM	0.9	62.0	ENE	1.2	37.0	NE	1.1	354.0	N	2.7	1.0	N	1.8	45.0	NE	1.3	41.0	NE	1.0	45.0	NE
06:00 PM - 07:00 PM	2.3	24.0	NNE	1.5	17.0	NNE	2.3	36.0	NE	3.8	25.0	NNE	1.9	18.0	NNE	1.1	344.0	NNW	1.0	358.0	N
07:00 PM - 08:00 PM	0.9	30.0	NNE	1.1	15.0	NNE	2.6	13.0	NNE	1.2	58.0	ENE	1.5	26.0	NNE	2.1	36.0	NE	1.0	27.0	NNE
08:00 PM - 09:00 PM	0.8	32.0	NNE	0.6	27.0	NNE	2.5	11.0	N	0.7	26.0	NNE	1.6	22.0	NNE	1.3	14.0	NNE	1.5	47.0	NE
09:00 PM - 10:00 PM	1.1	4.0	N	1.1	27.0	NNE	1.9	60.0	ENE	0.8	121.0	ESE	1.0	66.0	ENE	0.8	14.0	NNE	1.4	359.0	N
10:00 PM - 11:00 PM	1.0	28.0	NNE	1.1	359.0	N	1.1	100.0	E	0.5	52.0	NE	1.4	23.0	NNE	0.0	-	-	2.2	359.0	N
11:00 PM - 12:00 AM	1.5	53.0	NE	0.7	348.0	NNW	1.5	1.0	N	1.6	17.0	NNE	2.2	4.0	N	0.0	-	-	0.4	347.0	NNW
12:00 AM - 01:00 AM	2.3	4.0	N	0.2	-	-	1.1	16.0	NNE	0.7	32.0	NNE	2.4	349.0	N	0.7	301.0	WNW	0.8	20.0	NNE
01:00 AM - 02:00 AM	1.4	17.0	NNE	0.0	-	-	2.3	13.0	NNE	2.0	29.0	NNE	1.4	2.0	N	1.2	26.0	NNE	1.5	351.0	N
02:00 AM - 03:00 AM	0.6	356.0	N	0.0	-	-	1.4	6.0	N	0.8	359.0	N	1.0	78.0	ENE	2.8	15.0	NNE	0.7	337.0	NNW
03:00 AM - 04:00 AM	1.2	342.0	NNW	0.2	-	-	1.8	12.0	NNE	1.7	351.0	N	0.9	17.0	NNE	1.4	30.0	NNE	1.3	350.0	N
04:00 AM - 05:00 AM	1.0	44.0	NE	0.6	67.0	ENE	1.3	49.0	NE	2.0	11.0	N	2.4	359.0	N	0.7	0.0	N	3.1	37.0	NE
05:00 AM - 06:00 AM	1.5	36.0	NE	1.2	37.0	NE	1.5	20.0	NNE	1.6	0.0	N	1.5	5.0	N	0.9	16.0	NNE	2.1	11.0	N
06:00 AM - 07:00 AM	0.8	26.0	NNE	0.0	-	-	2.4	7.0	N	0.9	33.0	NNE	2.2	20.0	NNE	0.7	27.0	NNE	1.3	28.0	NNE
07:00 AM - 08:00 AM	2.5	0.0	N	4.0	339.0	NNW	1.7	33.0	NNE	1.4	39.0	NE	2.6	30.0	NNE	1.2	76.0	ENE	2.1	3.0	N
08:00 AM - 09:00 AM	0.8	42.0	NE	2.2	15.0	NNE	0.4	122.0	ESE	1.8	19.0	NNE	2.4	33.0	NNE	2.6	11.0	N	2.4	24.0	NNE

Reference Method : Cup Anemometer & Anodized Aluminium Vane Method

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Approved by

Sarayuth Jittranont
Assistant General Manager

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Analysis / Test Report

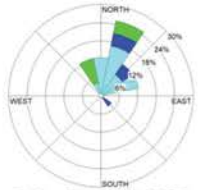
Client : WHA Saraburi Industrial Land Co., Ltd.
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140

Lot ID: 2589975
Date Received :Oct 29, 2025
Date Reported :Nov 04, 2025
Report Number :3413593-1

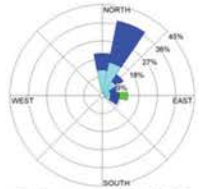
P/O : 54250024
Project Name : Monitoring
Project Location : WHA SIL

Wind Rose

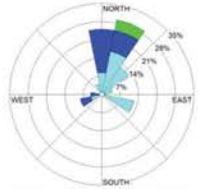
Date : Oct 21-22, 2025



Date : Oct 22-23, 2025

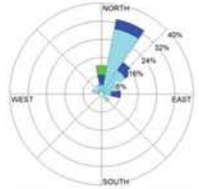


Date : Oct 23-24, 2025



Date : Oct 24-25, 2025

Date : Oct 25-26, 2025



Date : Oct 26-27, 2025

Date : Oct 27-28, 2025

Date : Oct 21-28, 2025

	WS (m/s)	%
	≥ 10.0	0.00
	8.0-10.0	0.00
	5.5-8.0	0.00
	3.3-5.5	5.36
	1.7-3.3	32.74
	0.3-1.7	57.74
	Calms	4.17

Location : บริเวณสำนักงานบริษัท (GPS 47P 0698599, 1589315)

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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

Lot ID: 2589975
Date Received :Oct 29, 2025
Date Reported :Nov 04, 2025
Report Number :3413593-1

P/O : 54250024
Project Name : Monitoring
Project Location : WHA SIL

Sample Number 2589975-22 to 28
Parameter Wind Speed / Wind Direction
Location รร. วัดหนองปลาหมอ ชุมชนบ้านหนองผักชีใต้ (GPS 47P 0700737, 1590864)
Sampling Date Oct 21 - Oct 28, 2025
Sampling by Teeravut Sukdee

Time	Oct 21 - Oct 22, 2025			Oct 22 - Oct 23, 2025			Oct 23 - Oct 24, 2025			Oct 24 - Oct 25, 2025			Oct 25 - Oct 26, 2025			Oct 26 - Oct 27, 2025			Oct 27 - Oct 28, 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	0.7	71.0	ENE	1.9	56.0	NE	5.4	57.0	ENE	0.0	-	-	0.8	68.0	ENE	1.2	58.0	ENE	2.0	58.0	ENE
12:00 PM - 01:00 PM	1.6	76.0	ENE	2.1	78.0	ENE	1.3	85.0	E	0.7	282.0	WNW	0.9	78.0	ENE	1.4	87.0	E	1.9	42.0	NE
01:00 PM - 02:00 PM	1.1	66.0	ENE	2.2	42.0	NE	0.5	96.0	E	0.4	281.0	W	1.9	56.0	NE	1.2	72.0	ENE	1.5	86.0	E
02:00 PM - 03:00 PM	0.4	89.0	E	2.1	47.0	NE	1.3	75.0	ENE	0.5	286.0	WNW	0.5	74.0	ENE	2.0	76.0	ENE	0.9	67.0	ENE
03:00 PM - 04:00 PM	0.7	86.0	E	1.8	75.0	ENE	0.8	75.0	ENE	1.7	288.0	WNW	1.3	90.0	E	1.5	61.0	ENE	0.7	69.0	ENE
04:00 PM - 05:00 PM	0.7	65.0	ENE	1.9	56.0	NE	0.8	65.0	ENE	2.0	289.0	WNW	1.1	64.0	ENE	1.1	47.0	NE	0.2	-	-
05:00 PM - 06:00 PM	0.3	72.0	ENE	1.0	68.0	ENE	0.7	73.0	ENE	0.7	65.0	ENE	1.1	51.0	NE	0.4	59.0	ENE	0.1	-	-
06:00 PM - 07:00 PM	0.3	78.0	ENE	0.6	67.0	ENE	0.8	70.0	ENE	1.3	67.0	ENE	0.5	57.0	ENE	0.5	72.0	ENE	0.0	-	-
07:00 PM - 08:00 PM	0.2	-	-	0.0	-	-	1.4	69.0	ENE	1.0	67.0	ENE	0.7	60.0	ENE	1.4	26.0	NNE	0.2	-	-
08:00 PM - 09:00 PM	0.5	63.0	ENE	0.0	-	-	0.9	61.0	ENE	1.0	59.0	ENE	1.1	66.0	ENE	0.5	66.0	ENE	0.6	62.0	ENE
09:00 PM - 10:00 PM	0.7	88.0	E	0.0	-	-	0.8	71.0	ENE	0.7	61.0	ENE	0.9	58.0	ENE	0.0	-	-	0.9	70.0	ENE
10:00 PM - 11:00 PM	0.3	66.0	ENE	0.1	-	-	0.6	65.0	ENE	0.6	55.0	NE	1.1	53.0	NE	0.0	-	-	0.0	-	-
11:00 PM - 12:00 AM	0.0	-	-	0.5	78.0	ENE	0.5	61.0	ENE	0.2	-	-	1.7	46.0	NE	0.3	63.0	ENE	0.4	63.0	ENE
12:00 AM - 01:00 AM	0.5	74.0	ENE	0.1	-	-	0.6	50.0	NE	0.9	65.0	ENE	1.4	59.0	ENE	0.4	60.0	ENE	0.4	68.0	ENE
01:00 AM - 02:00 AM	0.7	61.0	ENE	0.0	-	-	0.4	63.0	ENE	0.5	69.0	ENE	0.3	76.0	ENE	0.3	75.0	ENE	0.7	72.0	ENE
02:00 AM - 03:00 AM	0.3	68.0	ENE	0.3	64.0	ENE	1.0	60.0	ENE	0.3	69.0	ENE	0.8	48.0	NE	0.9	60.0	ENE	0.6	54.0	NE
03:00 AM - 04:00 AM	0.0	-	-	0.0	-	-	0.3	82.0	E	0.7	68.0	ENE	0.7	75.0	ENE	0.0	-	-	0.6	68.0	ENE
04:00 AM - 05:00 AM	0.0	-	-	0.0	-	-	1.6	67.0	ENE	0.3	76.0	ENE	1.0	66.0	ENE	0.1	-	-	1.0	58.0	ENE
05:00 AM - 06:00 AM	0.0	-	-	1.2	60.0	ENE	0.6	68.0	ENE	0.0	-	-	1.4	61.0	ENE	0.4	56.0	NE	0.8	68.0	ENE
06:00 AM - 07:00 AM	0.5	72.0	ENE	1.2	63.0	ENE	1.0	68.0	ENE	0.7	69.0	ENE	1.3	61.0	ENE	1.0	60.0	ENE	0.6	59.0	ENE
07:00 AM - 08:00 AM	0.9	61.0	ENE	0.9	74.0	ENE	1.5	58.0	ENE	1.1	79.0	E	2.0	54.0	NE	1.2	55.0	NE	0.7	60.0	ENE
08:00 AM - 09:00 AM	0.7	65.0	ENE	1.9	74.0	ENE	0.8	72.0	ENE	1.4	53.0	NE	2.2	71.0	ENE	1.0	53.0	NE	0.9	65.0	ENE
09:00 AM - 10:00 AM	1.4	33.0	NNE	2.0	69.0	ENE	1.0	118.0	ESE	1.0	58.0	ENE	0.4	229.0	SW	1.0	71.0	ENE	0.6	79.0	E
10:00 AM - 11:00 AM	1.4	49.0	NE	2.8	60.0	ENE	0.6	278.0	W	0.9	63.0	ENE	0.8	83.0	E	1.2	64.0	ENE	0.6	84.0	E

Reference Method : Cup Anemometer & Anodized Aluminium Vane Method

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Sarayuth Jittranont
Assistant General Manager

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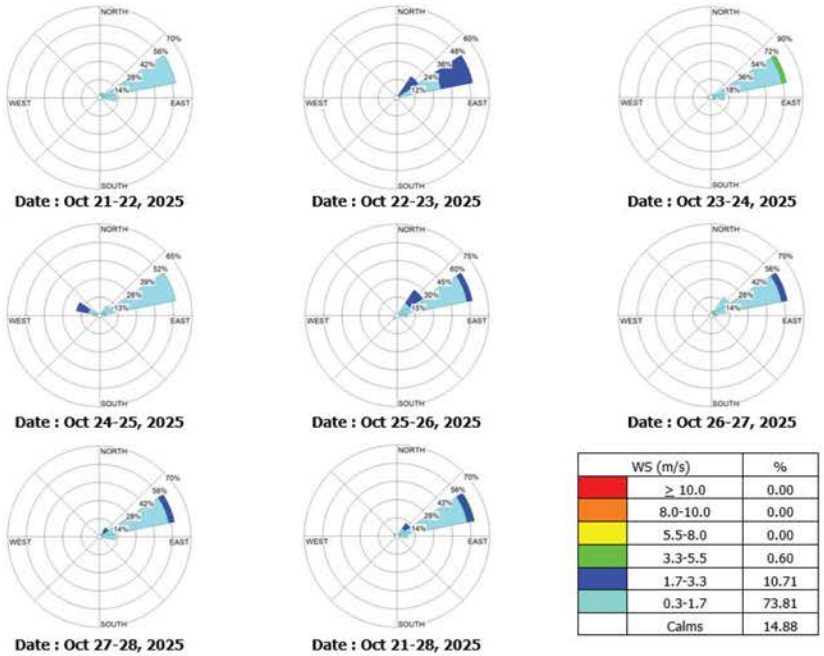
Analysis / Test Report

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

Lot ID: 2589975
Date Received :Oct 29, 2025
Date Reported :Nov 04, 2025
Report Number :3413593-1

P/O : 54250024
Project Name : Monitoring
Project Location : WHA SIL

Wind Rose



	WS (m/s)	%
	≥ 10.0	0.00
	8.0-10.0	0.00
	5.5-8.0	0.00
	3.3-5.5	0.60
	1.7-3.3	10.71
	0.3-1.7	73.81
	Calms	14.88

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

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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

Lot ID: 2589975
Date Received :Oct 29, 2025
Date Reported :Nov 04, 2025
Report Number :3413593-1

P/O : 54250024
Project Name : Monitoring
Project Location : WHA SIL

Sample Number 2589975-15 to 21
Parameter Wind Speed / Wind Direction
Location รร. วัดบัวลอย ชุมชนบ้านบัวลอยกลาง (GPS 47P 0698465, 1594331)
Sampling Date Oct 21 - Oct 28, 2025
Sampling by Teeravut Sukdee

Time	Oct 21 - Oct 22, 2025			Oct 22 - Oct 23, 2025			Oct 23 - Oct 24, 2025			Oct 24 - Oct 25, 2025			Oct 25 - Oct 26, 2025			Oct 26 - Oct 27, 2025			Oct 27 - Oct 28, 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	2.2	15.0	NNE	3.7	33.0	NNE	2.1	12.0	NNE	0.0	-	-	3.5	46.0	NE	5.7	48.0	NE	3.3	47.0	NE
01:00 PM - 02:00 PM	2.5	88.0	E	2.1	3.0	N	3.3	32.0	NNE	2.5	34.0	NE	1.1	26.0	NNE	3.9	62.0	ENE	1.6	57.0	ENE
02:00 PM - 03:00 PM	3.6	65.0	ENE	1.6	13.0	NNE	2.2	23.0	NNE	1.7	22.0	NNE	1.8	15.0	NNE	2.1	28.0	NNE	2.0	5.0	N
03:00 PM - 04:00 PM	1.4	0.0	N	3.1	277.0	W	1.4	33.0	NNE	0.0	-	-	2.8	50.0	NE	2.7	36.0	NE	2.3	49.0	NE
04:00 PM - 05:00 PM	1.2	48.0	NE	2.3	44.0	NE	0.9	21.0	NNE	1.0	319.0	NW	1.2	38.0	NE	2.3	44.0	NE	0.6	11.0	N
05:00 PM - 06:00 PM	0.5	17.0	NNE	1.4	48.0	NE	1.0	41.0	NE	0.6	339.0	NNW	1.0	17.0	NNE	1.1	22.0	NNE	0.5	34.0	NE
06:00 PM - 07:00 PM	0.0	-	-	0.9	24.0	NNE	1.6	37.0	NE	1.2	42.0	NE	0.5	34.0	NE	0.6	15.0	NNE	0.4	28.0	NNE
07:00 PM - 08:00 PM	0.0	-	-	0.0	-	-	0.8	22.0	NNE	1.6	19.0	NNE	0.0	-	-	1.1	29.0	NNE	0.5	17.0	NNE
08:00 PM - 09:00 PM	0.0	-	-	0.0	-	-	0.7	10.0	N	0.8	25.0	NNE	1.5	13.0	NNE	1.0	30.0	NNE	0.4	8.0	N
09:00 PM - 10:00 PM	0.0	-	-	0.0	-	-	1.3	20.0	NNE	1.5	28.0	NNE	0.5	7.0	N	0.0	-	-	0.0	-	-
10:00 PM - 11:00 PM	0.0	-	-	0.0	-	-	1.4	21.0	NNE	0.5	348.0	NNW	0.0	-	-	0.0	-	-	0.0	-	-
11:00 PM - 12:00 AM	0.0	-	-	0.0	-	-	0.2	-	-	1.0	11.0	N	1.0	341.0	NNW	0.0	-	-	0.0	-	-
12:00 AM - 01:00 AM	0.0	-	-	0.0	-	-	0.2	-	-	0.8	23.0	NNE	1.1	39.0	NE	0.0	-	-	0.6	322.0	NW
01:00 AM - 02:00 AM	0.0	-	-	0.3	324.0	NW	0.6	16.0	NNE	1.3	37.0	NE	1.9	33.0	NNE	0.1	-	-	0.2	-	-
02:00 AM - 03:00 AM	0.0	-	-	0.6	19.0	NNE	0.8	1.0	N	0.0	-	-	0.9	48.0	NE	0.0	-	-	0.5	325.0	NW
03:00 AM - 04:00 AM	0.6	357.0	N	1.0	27.0	NNE	0.3	352.0	N	0.9	17.0	NNE	1.0	24.0	NNE	0.0	-	-	0.0	-	-
04:00 AM - 05:00 AM	0.5	16.0	NNE	1.1	1.0	N	2.7	58.0	ENE	0.5	335.0	NNW	0.7	73.0	ENE	0.8	36.0	NE	1.0	11.0	N
05:00 AM - 06:00 AM	0.6	10.0	N	1.7	22.0	NNE	2.0	46.0	NE	1.2	11.0	N	0.3	317.0	NW	0.0	-	-	0.9	21.0	NNE
06:00 AM - 07:00 AM	0.4	59.0	ENE	1.1	12.0	NNE	1.4	3.0	N	1.4	18.0	NNE	1.0	0.0	N	1.8	49.0	NE	0.0	-	-
07:00 AM - 08:00 AM	0.8	17.0	NNE	1.3	359.0	N	1.9	78.0	ENE	3.0	33.0	NNE	1.6	40.0	NE	0.5	15.0	NNE	1.5	29.0	NNE
08:00 AM - 09:00 AM	1.3	42.0	NE	2.3	36.0	NE	3.1	37.0	NE	2.2	40.0	NE	1.7	0.0	N	0.9	0.0	N	1.5	12.0	NNE
09:00 AM - 10:00 AM	1.9	23.0	NNE	3.4	45.0	NE	2.2	50.0	NE	2.4	54.0	NE	1.7	21.0	NNE	3.1	0.0	N	1.5	22.0	NNE
10:00 AM - 11:00 AM	2.2	41.0	NE	2.0	22.0	NNE	3.0	14.0	NNE	1.8	35.0	NE	3.2	30.0	NNE	1.9	42.0	NE	1.5	0.0	N
11:00 AM - 12:00 PM	2.4	5.0	N	3.0	31.0	NNE	3.0	17.0	NNE	1.4	67.0	ENE	2.8	42.0	NE	3.2	28.0	NNE	1.8	39.0	NE

Reference Method : Cup Anemometer & Anodized Aluminium Vane Method

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Sarayuth Jittranont
Assistant General Manager

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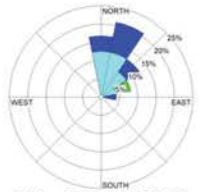
Analysis / Test Report

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

Lot ID: 2589975
Date Received :Oct 29, 2025
Date Reported :Nov 04, 2025
Report Number :3413593-1

P/O : 54250024
Project Name : Monitoring
Project Location : WHA SIL

Wind Rose



Date : Oct 21-22, 2025

Date : Oct 22-23, 2025

Date : Oct 23-24, 2025

Date : Oct 24-25, 2025

Date : Oct 25-26, 2025

Date : Oct 26-27, 2025

Date : Oct 27-28, 2025

Date : Oct 21-28, 2025

	WS (m/s)	%
	≥ 10.0	0.00
	8.0-10.0	0.00
	5.5-8.0	0.60
	3.3-5.5	4.17
	1.7-3.3	26.19
	0.3-1.7	47.62
	Calms	21.43

Location : รร. วัดบัวลอย ชุมชนบ้านบัวลอยกลาง (GPS 47P 0698465, 1594331)

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Analysis / Test Report

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

Lot ID: 2589975
Date Received :Oct 29, 2025
Date Reported :Nov 04, 2025
Report Number :3413593-1

P/O : 54250024
Project Name : Monitoring
Project Location : WHA SIL

Sample Number 2589975-8 to 14
Parameter Wind Speed / Wind Direction
Location รร. บ้านใหม่ทุ่งดินขอ ชุมชนบ้านใหม่ทุ่งดินขอ (GPS 47P 0697239, 1589433)
Sampling Date Oct 21 - Oct 28, 2025
Sampling by Teeravut Sukdee

Time	Oct 21 - Oct 22, 2025			Oct 22 - Oct 23, 2025			Oct 23 - Oct 24, 2025			Oct 24 - Oct 25, 2025			Oct 25 - Oct 26, 2025			Oct 26 - Oct 27, 2025			Oct 27 - Oct 28, 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	2.1	89.0	E	1.3	85.0	E	2.2	10.0	N	0.5	224.0	SW	2.1	44.0	NE	0.4	85.0	E	2.0	86.0	E
11:00 AM - 12:00 PM	3.4	67.0	ENE	5.9	66.0	ENE	5.1	60.0	ENE	1.0	310.0	NW	2.3	42.0	NE	3.5	49.0	NE	7.0	69.0	ENE
12:00 PM - 01:00 PM	2.8	58.0	ENE	2.6	58.0	ENE	3.8	99.0	E	0.2	-	-	0.9	46.0	NE	6.1	50.0	NE	2.9	70.0	ENE
01:00 PM - 02:00 PM	2.2	67.0	ENE	2.1	300.0	WNW	3.8	39.0	NE	0.8	314.0	NW	3.3	63.0	ENE	1.1	4.0	N	3.8	96.0	E
02:00 PM - 03:00 PM	3.2	66.0	ENE	4.0	61.0	ENE	4.7	50.0	NE	1.2	288.0	WNW	0.5	35.0	NE	3.6	48.0	NE	3.0	79.0	E
03:00 PM - 04:00 PM	4.5	86.0	E	1.5	14.0	NNE	4.0	71.0	ENE	1.8	310.0	NW	2.1	71.0	ENE	2.5	49.0	NE	1.2	59.0	ENE
04:00 PM - 05:00 PM	2.3	74.0	ENE	3.6	78.0	ENE	1.7	55.0	NE	1.2	304.0	NW	1.4	76.0	ENE	2.0	50.0	NE	1.2	0.0	N
05:00 PM - 06:00 PM	1.6	68.0	ENE	2.8	57.0	ENE	4.0	53.0	NE	1.6	2.0	N	3.3	92.0	E	1.7	60.0	ENE	0.5	312.0	NW
06:00 PM - 07:00 PM	1.5	66.0	ENE	2.3	56.0	NE	2.0	59.0	ENE	0.5	24.0	NNE	1.3	101.0	E	0.7	331.0	NNW	0.3	319.0	NW
07:00 PM - 08:00 PM	1.2	69.0	ENE	1.1	61.0	ENE	1.5	66.0	ENE	3.9	13.0	NNE	3.0	51.0	NE	1.9	72.0	ENE	0.1	-	-
08:00 PM - 09:00 PM	0.8	56.0	NE	0.3	80.0	E	3.8	51.0	NE	2.4	59.0	ENE	2.0	66.0	ENE	2.8	50.0	NE	1.0	313.0	NW
09:00 PM - 10:00 PM	1.1	53.0	NE	1.2	31.0	NNE	3.0	68.0	ENE	3.2	75.0	ENE	0.9	2.0	N	0.0	-	-	0.9	332.0	NNW
10:00 PM - 11:00 PM	0.8	50.0	NE	1.3	320.0	NW	3.4	67.0	ENE	0.2	-	-	1.0	325.0	NW	0.8	322.0	NW	0.0	-	-
11:00 PM - 12:00 AM	0.5	42.0	NE	1.1	316.0	NW	1.4	72.0	ENE	0.8	6.0	N	0.8	71.0	ENE	1.0	7.0	N	0.9	328.0	NNW
12:00 AM - 01:00 AM	0.5	342.0	NNW	0.0	-	-	1.0	60.0	ENE	1.4	60.0	ENE	1.7	111.0	ESE	0.0	-	-	0.2	-	-
01:00 AM - 02:00 AM	0.0	-	-	0.0	-	-	2.3	43.0	NE	0.1	-	-	1.4	62.0	ENE	0.2	-	-	0.2	-	-
02:00 AM - 03:00 AM	1.5	311.0	NW	0.9	49.0	NE	0.6	16.0	NNE	2.1	70.0	ENE	1.6	47.0	NE	1.4	332.0	NNW	0.9	68.0	ENE
03:00 AM - 04:00 AM	1.6	316.0	NW	0.4	79.0	E	2.4	73.0	ENE	3.7	82.0	E	1.6	40.0	NE	0.8	329.0	NNW	0.4	53.0	NE
04:00 AM - 05:00 AM	0.0	-	-	0.4	7.0	N	2.1	69.0	ENE	0.7	69.0	ENE	1.7	19.0	NNE	0.9	323.0	NW	0.4	57.0	ENE
05:00 AM - 06:00 AM	1.5	42.0	NE	1.2	359.0	N	1.1	76.0	ENE	0.0	-	-	0.2	-	-	0.8	359.0	N	0.5	124.0	SE
06:00 AM - 07:00 AM	1.5	359.0	N	0.7	119.0	ESE	2.2	76.0	ENE	1.6	51.0	NE	1.9	79.0	E	0.9	35.0	NE	0.6	323.0	NW
07:00 AM - 08:00 AM	1.2	50.0	NE	0.6	298.0	WNW	3.4	75.0	ENE	1.9	66.0	ENE	1.1	18.0	NNE	0.9	82.0	E	1.3	32.0	NNE
08:00 AM - 09:00 AM	2.3	16.0	NNE	4.5	65.0	ENE	2.8	51.0	NE	1.9	62.0	ENE	2.6	83.0	E	1.0	68.0	ENE	1.9	13.0	NNE
09:00 AM - 10:00 AM	3.2	51.0	NE	3.1	87.0	E	2.3	359.0	N	2.1	24.0	NNE	1.4	354.0	N	5.0	71.0	ENE	1.3	33.0	NNE

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

Lot ID: 2589975
Date Received :Oct 29, 2025
Date Reported :Nov 04, 2025
Report Number :3413593-1

P/O : 54250024
Project Name : Monitoring
Project Location : WHA SIL

Wind Rose

Date : Oct 21-22, 2025

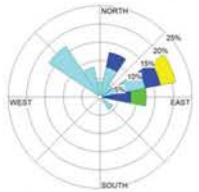
Date : Oct 22-23, 2025

Date : Oct 23-24, 2025

Date : Oct 24-25, 2025

Date : Oct 25-26, 2025

Date : Oct 26-27, 2025



Date : Oct 27-28, 2025

Date : Oct 21-28, 2025

	WS (m/s)	%
	≥ 10.0	0.00
	8.0-10.0	0.00
	5.5-8.0	1.79
	3.3-5.5	13.10
	1.7-3.3	27.98
	0.3-1.7	47.62
	Calms	9.52

Location : รร. บ้านใหม่ทุ่งดินขอ ชุมชนบ้านใหม่ทุ่งดินขอ (GPS 47P 0697239, 1589433)

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ภาคผนวก ค-2

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: 2589976
Date Received : Oct 29, 2025
Date Reported : Nov 06, 2025
Report Number: 3444517-1

Sample Number 2589976-1
Parameter Noise (Leq 24 hrs.)
Location บริเวณสำนักงานบริษัท (GPS 47P 0698599, 1589315)
Measurement Date Oct 25 - Oct 26, 2025
Measurement by Teeravut Sukdee
Sound Level meter Serial No. 597159

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
10:00 AM - 11:00 AM	53.8	70.0	50.8
11:00 AM - 12:00 PM	53.4	74.6	49.6
12:00 PM - 01:00 PM	54.4	78.4	49.4
01:00 PM - 02:00 PM	53.1	69.5	49.9
02:00 PM - 03:00 PM	53.1	69.7	49.6
03:00 PM - 04:00 PM	54.2	70.0	50.3
04:00 PM - 05:00 PM	54.6	74.0	50.3
05:00 PM - 06:00 PM	56.4	79.1	50.9
06:00 PM - 07:00 PM	54.4	71.5	50.9
07:00 PM - 08:00 PM	55.2	75.0	51.5
08:00 PM - 09:00 PM	57.7	86.6	52.1
09:00 PM - 10:00 PM	53.9	74.7	50.7
10:00 PM - 11:00 PM	52.5	64.5	50.8
11:00 PM - 12:00 AM	53.6	71.7	50.6
12:00 AM - 01:00 AM	54.6	75.8	51.0
01:00 AM - 02:00 AM	52.8	70.7	50.8
02:00 AM - 03:00 AM	50.7	60.3	49.3
03:00 AM - 04:00 AM	50.6	67.1	49.0
04:00 AM - 05:00 AM	50.7	63.3	49.3
05:00 AM - 06:00 AM	52.1	63.4	50.1
06:00 AM - 07:00 AM	53.5	67.8	51.4
07:00 AM - 08:00 AM	56.0	74.3	51.8
08:00 AM - 09:00 AM	57.0	76.6	52.5
09:00 AM - 10:00 AM	53.2	65.9	49.5
Leq Average 24 hrs. (dB(A))	54.2		
Lmax (dB(A))		86.6	
L90 (dB(A))			50.6
Ldn (dB(A))	59.4		
Standard (dB(A))	70	115	

Reference Method : ISO1996-1 and 1996-2
Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป
2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดค่าระดับเสียงการรบกวน และระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548

Technical Management
Tanyatorn Mongkonjirawut
Supervisor

Approved by
Supot Salamteh
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

Lot ID: 2589976
Date Received : Oct 29, 2025
Date Reported : Nov 06, 2025
Report Number: 3444518-1

Sample Number 2589976-2
Parameter Noise (Leq 24 hrs.)
Location บริเวณสำนักงานบริษัท (GPS 47P 0698599, 1589315)
Measurement Date Oct 26 - Oct 27, 2025
Measurement by Teeravut Sukdee
Sound Level meter Serial No. 597159

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
10:00 AM - 11:00 AM	51.1	66.7	47.8
11:00 AM - 12:00 PM	55.2	95.9	46.7
12:00 PM - 01:00 PM	51.6	65.4	48.5
01:00 PM - 02:00 PM	52.6	64.8	49.9
02:00 PM - 03:00 PM	52.1	64.5	49.5
03:00 PM - 04:00 PM	53.0	68.5	49.8
04:00 PM - 05:00 PM	54.0	75.8	50.1
05:00 PM - 06:00 PM	52.2	71.3	49.3
06:00 PM - 07:00 PM	52.0	67.4	49.0
07:00 PM - 08:00 PM	53.4	70.6	50.5
08:00 PM - 09:00 PM	54.7	69.1	51.2
09:00 PM - 10:00 PM	52.0	67.4	49.3
10:00 PM - 11:00 PM	51.2	63.8	49.1
11:00 PM - 12:00 AM	51.9	67.5	49.8
12:00 AM - 01:00 AM	52.6	71.1	49.8
01:00 AM - 02:00 AM	50.3	57.7	49.2
02:00 AM - 03:00 AM	50.2	64.9	48.9
03:00 AM - 04:00 AM	50.6	65.9	49.2
04:00 AM - 05:00 AM	50.6	61.7	49.0
05:00 AM - 06:00 AM	51.4	65.6	49.3
06:00 AM - 07:00 AM	54.1	69.3	50.0
07:00 AM - 08:00 AM	58.0	72.3	52.9
08:00 AM - 09:00 AM	58.4	72.6	53.8
09:00 AM - 10:00 AM	55.3	75.0	51.2
Leq Average 24 hrs. (dB(A))	53.5		
Lmax (dB(A))		95.9	
L90 (dB(A))			49.3
Ldn (dB(A))	58.5		
Standard (dB(A))	70	115	

Reference Method : ISO1996-1 and 1996-2
Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป
2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดค่าระดับเสียงการรบกวน และระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548

Technical Management
Tanyatorn Mongkonjirawut
Supervisor

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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: 2589976
Date Received : Oct 29, 2025
Date Reported : Nov 06, 2025
Report Number: 3444519-1

Sample Number	2589976-3
Parameter	Noise (Leq 24 hrs.)
Location	บริเวณสำนักงานบริษัท (GPS 47P 0698599, 1589315)
Measurement Date	Oct 27 - Oct 28, 2025
Measurement by	Teeravut Sukdee
Sound Level meter	Serial No. 597159

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
10:00 AM - 11:00 AM	54.3	69.7	50.7
11:00 AM - 12:00 PM	54.6	69.7	51.0
12:00 PM - 01:00 PM	55.0	71.8	51.6
01:00 PM - 02:00 PM	55.4	74.9	51.3
02:00 PM - 03:00 PM	53.7	69.9	50.4
03:00 PM - 04:00 PM	54.4	71.7	50.4
04:00 PM - 05:00 PM	54.8	75.4	50.7
05:00 PM - 06:00 PM	56.1	69.2	52.1
06:00 PM - 07:00 PM	54.8	70.4	51.4
07:00 PM - 08:00 PM	56.3	79.3	52.0
08:00 PM - 09:00 PM	56.7	73.4	53.1
09:00 PM - 10:00 PM	54.0	69.4	51.2
10:00 PM - 11:00 PM	53.9	75.9	51.1
11:00 PM - 12:00 AM	54.2	70.7	50.8
12:00 AM - 01:00 AM	53.6	68.7	50.6
01:00 AM - 02:00 AM	51.9	64.9	50.0
02:00 AM - 03:00 AM	52.1	66.1	50.4
03:00 AM - 04:00 AM	51.5	63.7	50.0
04:00 AM - 05:00 AM	51.9	72.3	49.9
05:00 AM - 06:00 AM	51.9	71.6	49.7
06:00 AM - 07:00 AM	54.2	71.2	51.0
07:00 AM - 08:00 AM	58.8	82.2	53.8
08:00 AM - 09:00 AM	58.5	74.4	54.0
09:00 AM - 10:00 AM	55.5	77.0	50.9
Leq Average 24 hrs. (dB(A))	54.9		
Lmax (dB(A))		82.2	
L90 (dB(A))			50.9
Ldn (dB(A))	59.9		
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
Tanyatorn Mongkonjirawut
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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: 2589976
Date Received : Oct 29, 2025
Date Reported : Nov 06, 2025
Report Number: 3444526-1

Sample Number	2589976-10
Parameter	Noise (Leq 24 hrs.)
Location	รร. วัดหนองปลาหมอ ชุมชนบ้านหนองผักชีใต้ (GPS 47P 0700733, 1590964)
Measurement Date	Oct 25 - Oct 26, 2025
Measurement by	Teeravut Sukdee
Sound Level meter	Serial No. 296511

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
12:00 PM - 01:00 PM	48.3	62.3	47.0
01:00 PM - 02:00 PM	47.2	71.8	45.6
02:00 PM - 03:00 PM	47.8	68.6	45.5
03:00 PM - 04:00 PM	54.8	69.7	45.0
04:00 PM - 05:00 PM	63.7	80.7	51.0
05:00 PM - 06:00 PM	61.9	78.8	55.1
06:00 PM - 07:00 PM	58.7	81.2	54.0
07:00 PM - 08:00 PM	60.0	81.0	56.3
08:00 PM - 09:00 PM	55.8	72.6	53.1
09:00 PM - 10:00 PM	54.5	73.5	53.2
10:00 PM - 11:00 PM	54.3	69.4	53.3
11:00 PM - 12:00 AM	54.0	63.3	53.3
12:00 AM - 01:00 AM	54.3	78.9	53.4
01:00 AM - 02:00 AM	53.6	60.4	53.0
02:00 AM - 03:00 AM	54.1	70.5	53.3
03:00 AM - 04:00 AM	54.3	80.2	52.8
04:00 AM - 05:00 AM	53.1	69.2	52.5
05:00 AM - 06:00 AM	53.1	62.8	52.5
06:00 AM - 07:00 AM	53.9	69.4	52.8
07:00 AM - 08:00 AM	61.4	71.7	53.8
08:00 AM - 09:00 AM	58.9	74.5	54.0
09:00 AM - 10:00 AM	68.5	84.5	57.0
10:00 AM - 11:00 AM	61.6	82.8	55.8
11:00 AM - 12:00 PM	59.2	82.7	55.5
Leq Average 24 hrs. (dB(A))	59.3		
Lmax (dB(A))		84.5	
L90 (dB(A))			53.2
Ldn (dB(A))	62.2		
Standard (dB(A))	70	115	

Reference Method : ISO1996-1 and 1996-2
Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป
2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดค่าระดับเสียงการรบกวน และระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548

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: 2589976
Date Received : Oct 29, 2025
Date Reported : Nov 06, 2025
Report Number: 3444527-1

Sample Number 2589976-11
Parameter Noise (Leq 24 hrs.)
Location รร. วัดหนองปลาหมอ ชุมชนบ้านหนองผักชีใต้ (GPS 47P 0700733, 1590964)
Measurement Date Oct 26 - Oct 27, 2025
Measurement by Teeravut Sukdee
Sound Level meter Serial No. 296511

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
12:00 PM - 01:00 PM	56.3	79.8	50.0
01:00 PM - 02:00 PM	59.1	80.2	47.7
02:00 PM - 03:00 PM	56.1	77.8	48.4
03:00 PM - 04:00 PM	51.9	73.3	46.4
04:00 PM - 05:00 PM	54.2	76.0	46.0
05:00 PM - 06:00 PM	54.5	66.9	50.2
06:00 PM - 07:00 PM	57.2	82.5	47.7
07:00 PM - 08:00 PM	54.7	68.6	45.4
08:00 PM - 09:00 PM	47.8	70.6	43.8
09:00 PM - 10:00 PM	50.0	78.2	44.6
10:00 PM - 11:00 PM	46.7	66.6	44.4
11:00 PM - 12:00 AM	47.5	66.0	45.3
12:00 AM - 01:00 AM	46.0	62.2	44.7
01:00 AM - 02:00 AM	47.1	60.7	45.1
02:00 AM - 03:00 AM	48.3	69.9	44.6
03:00 AM - 04:00 AM	49.9	70.9	46.4
04:00 AM - 05:00 AM	56.8	70.3	46.1
05:00 AM - 06:00 AM	60.2	69.5	53.6
06:00 AM - 07:00 AM	56.3	75.2	49.7
07:00 AM - 08:00 AM	52.4	71.1	45.8
08:00 AM - 09:00 AM	60.7	76.9	49.8
09:00 AM - 10:00 AM	57.2	84.9	49.3
10:00 AM - 11:00 AM	56.7	82.8	52.1
11:00 AM - 12:00 PM	55.3	69.9	50.1
Leq Average 24 hrs. (dB(A))	55.4		
Lmax (dB(A))		84.9	
L90 (dB(A))			46.4
Ldn (dB(A))	60.8		
Standard (dB(A))	70	115	

Reference Method : ISO1996-1 and 1996-2
Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป
2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดค่าระดับเสียงการรบกวน และระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548

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: 2589976
Date Received : Oct 29, 2025
Date Reported : Nov 06, 2025
Report Number: 3444528-1

Sample Number 2589976-12
Parameter Noise (Leq 24 hrs.)
Location รร. วัดหนองปลาหมอ ชุมชนบ้านหนองผักชีใต้ (GPS 47P 0700733, 1590964)
Measurement Date Oct 27 - Oct 28, 2025
Measurement by Teeravut Sukdee
Sound Level meter Serial No. 296511

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
12:00 PM - 01:00 PM	53.4	69.6	47.4
01:00 PM - 02:00 PM	54.5	73.3	47.6
02:00 PM - 03:00 PM	53.3	71.2	46.9
03:00 PM - 04:00 PM	54.4	74.1	48.5
04:00 PM - 05:00 PM	56.8	77.4	50.4
05:00 PM - 06:00 PM	53.5	67.4	50.0
06:00 PM - 07:00 PM	55.1	70.9	50.6
07:00 PM - 08:00 PM	57.4	73.5	49.5
08:00 PM - 09:00 PM	49.2	65.4	46.9
09:00 PM - 10:00 PM	49.4	67.1	47.3
10:00 PM - 11:00 PM	48.6	68.9	45.8
11:00 PM - 12:00 AM	46.3	58.1	44.6
12:00 AM - 01:00 AM	47.7	63.9	45.2
01:00 AM - 02:00 AM	48.5	59.5	47.1
02:00 AM - 03:00 AM	47.7	60.9	46.6
03:00 AM - 04:00 AM	48.9	65.0	46.5
04:00 AM - 05:00 AM	54.3	69.0	46.1
05:00 AM - 06:00 AM	57.4	74.0	52.1
06:00 AM - 07:00 AM	58.0	76.7	48.2
07:00 AM - 08:00 AM	55.5	71.5	48.1
08:00 AM - 09:00 AM	66.3	90.1	50.3
09:00 AM - 10:00 AM	67.9	88.7	49.4
10:00 AM - 11:00 AM	65.6	86.5	49.5
11:00 AM - 12:00 PM	50.0	66.5	44.3
Leq Average 24 hrs. (dB(A))	59.0		
Lmax (dB(A))		90.1	
L90 (dB(A))			47.4
Ldn (dB(A))	61.7		
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
Tanyatorn Mongkonjirawut
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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: 2589976
Date Received : Oct 29, 2025
Date Reported : Nov 06, 2025
Report Number: 3444523-1

Sample Number	2589976-7
Parameter	Noise (Leq 24 hrs.)
Location	รร. วัดบัวลอย ชุมชนบ้านบัวลอยกลาง (GPS 47P 0698465, 1594331)
Measurement Date	Oct 25 - Oct 26, 2025
Measurement by	Teeravut Sukdee
Sound Level meter	Serial No. 597156

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
01:00 PM - 02:00 PM	53.8	80.9	43.3
02:00 PM - 03:00 PM	50.9	75.8	43.3
03:00 PM - 04:00 PM	47.9	75.9	42.8
04:00 PM - 05:00 PM	51.1	85.4	43.3
05:00 PM - 06:00 PM	48.3	68.9	43.3
06:00 PM - 07:00 PM	48.9	71.9	44.5
07:00 PM - 08:00 PM	49.3	70.8	44.6
08:00 PM - 09:00 PM	53.6	69.2	51.2
09:00 PM - 10:00 PM	53.9	70.4	51.5
10:00 PM - 11:00 PM	50.5	60.7	49.6
11:00 PM - 12:00 AM	49.5	64.8	48.5
12:00 AM - 01:00 AM	49.4	67.6	47.8
01:00 AM - 02:00 AM	50.5	67.2	49.7
02:00 AM - 03:00 AM	49.5	61.5	48.7
03:00 AM - 04:00 AM	49.3	62.1	48.4
04:00 AM - 05:00 AM	48.6	71.2	46.8
05:00 AM - 06:00 AM	50.8	71.4	46.8
06:00 AM - 07:00 AM	49.1	73.7	45.2
07:00 AM - 08:00 AM	55.5	80.7	45.7
08:00 AM - 09:00 AM	50.2	68.5	45.2
09:00 AM - 10:00 AM	50.4	70.6	44.6
10:00 AM - 11:00 AM	49.2	66.7	45.0
11:00 AM - 12:00 PM	49.5	67.3	45.6
12:00 PM - 01:00 PM	51.1	69.2	46.3
Leq Average 24 hrs. (dB(A))	50.9		
Lmax (dB(A))		85.4	
L90 (dB(A))			45.6
Ldn (dB(A))	56.5		
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

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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: 2589976
Date Received : Oct 29, 2025
Date Reported : Nov 06, 2025
Report Number: 3444524-1

Sample Number	2589976-8
Parameter	Noise (Leq 24 hrs.)
Location	รร. วัดบัวลอย ชุมชนบ้านบัวลอยกลาง (GPS 47P 0698465, 1594331)
Measurement Date	Oct 26 - Oct 27, 2025
Measurement by	Teeravut Sukdee
Sound Level meter	Serial No. 597156

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
01:00 PM - 02:00 PM	52.4	66.5	48.0
02:00 PM - 03:00 PM	54.6	75.7	49.3
03:00 PM - 04:00 PM	52.1	75.8	47.8
04:00 PM - 05:00 PM	49.8	74.6	46.0
05:00 PM - 06:00 PM	51.2	72.3	46.7
06:00 PM - 07:00 PM	52.2	87.7	45.0
07:00 PM - 08:00 PM	49.3	65.1	44.3
08:00 PM - 09:00 PM	53.2	61.5	51.8
09:00 PM - 10:00 PM	51.6	63.1	50.0
10:00 PM - 11:00 PM	49.4	64.3	48.0
11:00 PM - 12:00 AM	49.5	57.7	48.4
12:00 AM - 01:00 AM	48.8	68.6	47.4
01:00 AM - 02:00 AM	48.7	62.6	47.6
02:00 AM - 03:00 AM	49.1	61.3	48.5
03:00 AM - 04:00 AM	49.5	57.2	48.5
04:00 AM - 05:00 AM	49.1	56.4	48.2
05:00 AM - 06:00 AM	52.4	71.3	47.9
06:00 AM - 07:00 AM	49.7	62.6	46.9
07:00 AM - 08:00 AM	59.2	84.3	45.7
08:00 AM - 09:00 AM	56.4	83.5	46.5
09:00 AM - 10:00 AM	56.4	79.4	45.7
10:00 AM - 11:00 AM	48.7	67.9	43.4
11:00 AM - 12:00 PM	47.1	62.3	43.0
12:00 PM - 01:00 PM	50.9	71.1	45.4
Leq Average 24 hrs. (dB(A))	52.5		
Lmax (dB(A))		87.7	
L90 (dB(A))			47.4
Ldn (dB(A))	56.9		
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
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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: 2589976
Date Received : Oct 29, 2025
Date Reported : Nov 06, 2025
Report Number: 3444525-1

Sample Number	2589976-9
Parameter	Noise (Leq 24 hrs.)
Location	รร. วัดบัวลอย ชุมชนบ้านบัวลอยกลาง (GPS 47P 0698465, 1594331)
Measurement Date	Oct 27 - Oct 28, 2025
Measurement by	Teeravut Sukdee
Sound Level meter	Serial No. 597156

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
01:00 PM - 02:00 PM	50.4	67.7	45.4
02:00 PM - 03:00 PM	48.3	70.7	44.0
03:00 PM - 04:00 PM	53.7	79.7	45.3
04:00 PM - 05:00 PM	48.6	70.9	43.6
05:00 PM - 06:00 PM	50.7	76.3	44.2
06:00 PM - 07:00 PM	58.2	80.0	45.4
07:00 PM - 08:00 PM	56.2	72.8	46.4
08:00 PM - 09:00 PM	51.8	66.5	50.3
09:00 PM - 10:00 PM	52.5	63.8	51.1
10:00 PM - 11:00 PM	49.9	66.6	48.9
11:00 PM - 12:00 AM	48.9	62.6	47.7
12:00 AM - 01:00 AM	49.7	74.8	47.9
01:00 AM - 02:00 AM	49.4	67.0	48.1
02:00 AM - 03:00 AM	49.5	54.1	48.7
03:00 AM - 04:00 AM	49.7	63.8	48.6
04:00 AM - 05:00 AM	49.4	59.5	48.2
05:00 AM - 06:00 AM	51.9	70.2	49.0
06:00 AM - 07:00 AM	50.4	71.6	47.4
07:00 AM - 08:00 AM	56.8	85.9	46.5
08:00 AM - 09:00 AM	55.6	82.9	47.6
09:00 AM - 10:00 AM	51.3	70.2	46.2
10:00 AM - 11:00 AM	50.4	79.5	44.8
11:00 AM - 12:00 PM	52.5	71.6	45.5
12:00 PM - 01:00 PM	48.9	67.7	44.5
Leq Average 24 hrs. (dB(A))	52.5		
Lmax (dB(A))		85.9	
L90 (dB(A))			46.5
Ldn (dB(A))	57.1		
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 Tanyatorn Mongkonjirawut, Supervisor
Approved by Supot Salamteh, 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

Lot ID: 2589976
Date Received : Oct 29, 2025
Date Reported : Nov 06, 2025
Report Number: 3444520-1

Sample Number	2589976-4
Parameter	Noise (Leq 24 hrs.)
Location	รร. บ้านใหม่ทุ่งดินขอ ชุมชนบ้านใหม่ทุ่งดินขอ (GPS 47P 0697239, 1589433)
Measurement Date	Oct 25 - Oct 26, 2025
Measurement by	Teeravut Sukdee
Sound Level meter	Serial No. 873053

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
11:00 AM - 12:00 PM	49.3	73.9	44.2
12:00 PM - 01:00 PM	47.3	68.0	42.5
01:00 PM - 02:00 PM	49.8	72.7	43.8
02:00 PM - 03:00 PM	48.3	68.8	43.6
03:00 PM - 04:00 PM	48.5	65.5	43.4
04:00 PM - 05:00 PM	53.7	70.6	46.5
05:00 PM - 06:00 PM	49.6	73.0	44.8
06:00 PM - 07:00 PM	50.4	69.1	45.2
07:00 PM - 08:00 PM	53.6	69.0	49.0
08:00 PM - 09:00 PM	55.1	65.2	54.0
09:00 PM - 10:00 PM	53.8	75.0	49.4
10:00 PM - 11:00 PM	51.7	62.0	48.6
11:00 PM - 12:00 AM	50.5	68.9	48.3
12:00 AM - 01:00 AM	50.7	66.2	47.4
01:00 AM - 02:00 AM	49.3	65.3	46.3
02:00 AM - 03:00 AM	48.8	69.3	45.5
03:00 AM - 04:00 AM	49.4	68.0	46.3
04:00 AM - 05:00 AM	48.7	55.9	46.3
05:00 AM - 06:00 AM	49.9	75.5	47.2
06:00 AM - 07:00 AM	52.7	73.9	48.9
07:00 AM - 08:00 AM	50.9	74.7	46.2
08:00 AM - 09:00 AM	50.6	86.6	44.8
09:00 AM - 10:00 AM	50.6	76.3	44.9
10:00 AM - 11:00 AM	49.6	75.3	43.8
Leq Average 24 hrs. (dB(A))	51.0		
Lmax (dB(A))		86.6	
L90 (dB(A))			46.2
Ldn (dB(A))	56.9		
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

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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: 2589976
Date Received : Oct 29, 2025
Date Reported : Nov 06, 2025
Report Number: 3444521-1

Sample Number	2589976-5
Parameter	Noise (Leq 24 hrs.)
Location	รร. บ้านใหม่ทุ่งดินขอ ชุมชนบ้านใหม่ทุ่งดินขอ (GPS 47P 0697239, 1589433)
Measurement Date	Oct 26 - Oct 27, 2025
Measurement by	Teeravut Sukdee
Sound Level meter	Serial No. 873053

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
11:00 AM - 12:00 PM	48.1	71.0	42.9
12:00 PM - 01:00 PM	46.9	70.5	43.1
01:00 PM - 02:00 PM	50.5	78.8	45.0
02:00 PM - 03:00 PM	49.0	67.6	44.8
03:00 PM - 04:00 PM	51.7	81.8	44.9
04:00 PM - 05:00 PM	51.3	75.7	45.9
05:00 PM - 06:00 PM	48.7	69.2	44.5
06:00 PM - 07:00 PM	55.4	71.7	45.7
07:00 PM - 08:00 PM	53.8	76.5	49.2
08:00 PM - 09:00 PM	51.6	64.3	47.2
09:00 PM - 10:00 PM	50.6	81.5	46.9
10:00 PM - 11:00 PM	50.5	78.2	47.0
11:00 PM - 12:00 AM	51.5	82.7	45.7
12:00 AM - 01:00 AM	51.2	81.7	45.2
01:00 AM - 02:00 AM	48.5	68.3	45.6
02:00 AM - 03:00 AM	48.0	73.6	45.3
03:00 AM - 04:00 AM	47.5	52.0	45.3
04:00 AM - 05:00 AM	50.1	67.5	48.0
05:00 AM - 06:00 AM	49.6	66.9	48.2
06:00 AM - 07:00 AM	52.6	72.4	48.2
07:00 AM - 08:00 AM	53.6	77.6	47.5
08:00 AM - 09:00 AM	54.2	83.5	45.4
09:00 AM - 10:00 AM	52.2	79.2	43.3
10:00 AM - 11:00 AM	48.9	74.5	43.9
Leq Average 24 hrs. (dB(A))	51.2		
Lmax (dB(A))		83.5	
L90 (dB(A))			45.4
Ldn (dB(A))	56.9		
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 Tanyatorn Mongkonjirawut, Supervisor
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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: 2589976
Date Received : Oct 29, 2025
Date Reported : Nov 06, 2025
Report Number: 3444522-1

Sample Number	2589976-6
Parameter	Noise (Leq 24 hrs.)
Location	รร. บ้านใหม่ทุ่งดินขอ ชุมชนบ้านใหม่ทุ่งดินขอ (GPS 47P 0697239, 1589433)
Measurement Date	Oct 27 - Oct 28, 2025
Measurement by	Teeravut Sukdee
Sound Level meter	Serial No. 873053

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
11:00 AM - 12:00 PM	48.7	65.3	44.5
12:00 PM - 01:00 PM	47.4	78.3	43.8
01:00 PM - 02:00 PM	48.0	67.2	44.1
02:00 PM - 03:00 PM	49.2	68.4	44.1
03:00 PM - 04:00 PM	50.0	76.5	44.3
04:00 PM - 05:00 PM	48.8	74.1	44.1
05:00 PM - 06:00 PM	51.8	76.2	45.3
06:00 PM - 07:00 PM	52.4	72.9	49.7
07:00 PM - 08:00 PM	50.9	69.8	48.8
08:00 PM - 09:00 PM	53.2	86.0	48.7
09:00 PM - 10:00 PM	53.1	77.7	45.2
10:00 PM - 11:00 PM	51.4	63.3	47.6
11:00 PM - 12:00 AM	52.5	65.1	49.5
12:00 AM - 01:00 AM	50.0	67.3	47.9
01:00 AM - 02:00 AM	55.3	84.4	48.6
02:00 AM - 03:00 AM	49.3	64.9	47.0
03:00 AM - 04:00 AM	48.9	77.3	46.5
04:00 AM - 05:00 AM	49.3	67.2	47.7
05:00 AM - 06:00 AM	51.8	77.0	47.8
06:00 AM - 07:00 AM	53.9	83.5	47.6
07:00 AM - 08:00 AM	52.3	79.7	46.4
08:00 AM - 09:00 AM	49.6	84.8	44.9
09:00 AM - 10:00 AM	48.7	68.6	43.6
10:00 AM - 11:00 AM	48.7	70.3	43.1
Leq Average 24 hrs. (dB(A))	51.1		
Lmax (dB(A))		86.0	
L90 (dB(A))			46.4
Ldn (dB(A))	58.2		
Standard (dB(A))	70	115	

Reference Method : ISO1996-1 and 1996-2
Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป
2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดค่าระดับเสียงการรบกวน และระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548

Technical Management Tanyatorn Mongkonjirawut, Supervisor
Approved by Supot Salamteh, Section Head

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ภาคผนวก ค-3

คุณภาพน้ำผิวดิน

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: 2582535
Date Received : Sep 03, 2025
Date Reported : Sep 11, 2025
Report Number : 3395465-1

Sample Number	2582535-1
Sampled Date	Sep 03, 2025 10:00 AM
Sample Description	Surface water
Location	คลองระพีพัฒน์ บริเวณต้นน้ำก่อนถึงท่อลอดของคลองหนองรู ประมาณ 500 เมตร
Date Analysis Commenced	Sep 04, 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
Metals Testing							
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	0.001	≤0.05	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Microbiological Testing							
Total Coliform	MPN/100mL	-	-	790.0	≤20000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 9221 B	Bangkok
Water Testing							
Ammonia Nitrogen *	mg/L	-	0.06	0.11	≤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	368	No Standard	Based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2510 B	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

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: 2582535
Date Received : Sep 03, 2025
Date Reported : Sep 11, 2025
Report Number : 3395465-1

Sample Number	2582535-1
Sampled Date	Sep 03, 2025 10:00 AM
Sample Description	Surface water
Location	คลองระพีพัฒน์ บริเวณต้นน้ำก่อนถึงท่อลอดของคลองหนองรู ประมาณ 500 เมตร
Date Analysis Commenced	Sep 04, 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
Water Testing							
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	5.7	≥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	0.4	≤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		-	-	7.8	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	-	-	30.1	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	200	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	57	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	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.

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Sawitree Noisangiam
Manager

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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: 2582535
Date Received : Sep 03, 2025
Date Reported : Sep 11, 2025
Report Number : 3395465-1

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 Gazettle, 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 : Panupong Sansri

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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Sawitree Noisangiam
Manager

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: 2582535
Date Received : Sep 03, 2025
Date Reported : Sep 11, 2025
Report Number : 3395465-1

Sample Number	2582535-2
Sampled Date	Sep 03, 2025 10:15 AM
Sample Description	Surface water
Location	คลองหนองรู บริเวณต้นน้ำก่อนถึงจุดระบายน้ำทิ้ง ประมาณ 500 เมตร
Date Analysis Commenced	Sep 04, 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
Metals Testing							
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
Microbiological Testing							
Total Coliform	MPN/100mL	-	-	3300.0	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 9221 B	Bangkok
Water Testing							
Ammonia Nitrogen *	mg/L	-	0.06	0.19	≤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	2.2	≤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	647	No Standard	Based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2510 B	Bangkok

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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: 2582535
Date Received : Sep 03, 2025
Date Reported : Sep 11, 2025
Report Number : 3395465-1

Sample Number	2582535-2
Sampled Date	Sep 03, 2025 10:15 AM
Sample Description	Surface water
Location	คลองหนองรู บริเวณต้นน้ำก่อนถึงจุดระบายน้ำทิ้ง ประมาณ 500 เมตร
Date Analysis Commenced	Sep 04, 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
Water Testing							
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	4.3	≥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		-	-	7.5	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	335	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

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Approved by Sawitree N.
Sawitree Noisangiam
Manager

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: 2582535
Date Received : Sep 03, 2025
Date Reported : Sep 11, 2025
Report Number : 3395465-1

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 Gazettle, 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 : Panupong Sansri

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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Approved by Sawitree N.
Sawitree Noisangiam
Manager

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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: 2582535
Date Received : Sep 03, 2025
Date Reported : Sep 11, 2025
Report Number : 3395465-1

Sample Number	2582535-3
Sampled Date	Sep 03, 2025 10:30 AM
Sample Description	Surface water
Location	คลองหนองรู ท้ายน้ำจากจุดระบายน้ำทิ้งลงมา ประมาณ 500 เมตร
Date Analysis Commenced	Sep 04, 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
Metals Testing							
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	0.001	≤0.05	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Microbiological Testing							
Total Coliform	MPN/100mL	-	-	2400.0	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 9221 B	Bangkok
Water Testing							
Ammonia Nitrogen *	mg/L	-	0.06	0.09	≤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	2.2	≤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	620	No Standard	Based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2510 B	Bangkok

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Approved by Sawitree N.
Sawitree Noisangiam
Manager

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: 2582535
Date Received : Sep 03, 2025
Date Reported : Sep 11, 2025
Report Number : 3395465-1

Sample Number	2582535-3
Sampled Date	Sep 03, 2025 10:30 AM
Sample Description	Surface water
Location	คลองหนองรู ท้ายน้ำจากจุดระบายน้ำทิ้งลงมา ประมาณ 500 เมตร
Date Analysis Commenced	Sep 04, 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
Water Testing							
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	6.0	≥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	<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	-	-	30.7	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	336	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	23	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

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Sawitree Noisangiam
Manager

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Analysis / Test Report

TESTING
No.0009

Lot ID: 2582535

Date Received : Sep 03, 2025
Date Reported : Sep 11, 2025
Report Number : 3395465-1

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

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 : Panupong Sansri

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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Approved by Sawitree N.
Sawitree Noisangiam
Manager

Analysis / Test Report

TESTING
No.0009

Lot ID: 25100539

Date Received : Dec 02, 2025
Date Reported : Dec 12, 2025
Report Number : 3438990-1

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

Sample Number	25100539-1
Sampled Date	Dec 02, 2025 10:05 AM
Sample Description	Surface water
Location	คลองระพีพัฒน์ บริเวณต้นน้ำก่อนถึงท่อลอดของคลองหนองรู ประมาณ 500 เมตร
Date Analysis Commenced	Dec 03, 2025
Condition of Sample	Contained in six plastic bottle, one amber glass bottle, two glass vials, two BOD bottles, 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	0.003	≤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	0.002	≤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	0.002	≤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	0.20	≤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	0.002	≤0.10	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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Approved by Suwimon C.
Suwimon Chairuangwut
Scientist (3)

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: 25100539
Date Received : Dec 02, 2025
Date Reported : Dec 12, 2025
Report Number : 3438990-1

Sample Number	25100539-1
Sampled Date	Dec 02, 2025 10:05 AM
Sample Description	Surface water
Location	คลองระพีพัฒน์ บริเวณต้นน้ำก่อนถึงท่อลอดของคลองหนองรู ประมาณ 500 เมตร
Date Analysis Commenced	Dec 03, 2025
Condition of Sample	Contained in six plastic bottle, one amber glass bottle, two glass vials, two BOD bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Zinc	mg/L	0.003	0.005	0.01	≤1	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Microbiological Testing							
Total Coliform	MPN/100mL	-	-	1300.0	≤20000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 9221 B	Bangkok
Water Testing							
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	272	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	7.5	≥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 Suwimon C.
Suwimon Chairuangwut
Scientist (3)

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: 25100539
Date Received : Dec 02, 2025
Date Reported : Dec 12, 2025
Report Number : 3438990-1

Sample Number	25100539-1
Sampled Date	Dec 02, 2025 10:05 AM
Sample Description	Surface water
Location	คลองระพีพัฒน์ บริเวณต้นน้ำก่อนถึงท่อลอดของคลองหนองรู ประมาณ 500 เมตร
Date Analysis Commenced	Dec 03, 2025
Condition of Sample	Contained in six plastic bottle, one amber glass bottle, two glass vials, two BOD bottles, 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	0.3	≤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		-	-	8.2	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	-	-	26.0	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	154	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	73	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 Gazettle, 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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Approved by Suwimon C.
Suwimon Chairuangwut
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, Nongkhae, Saraburi Thailand 18140
P/O : 54250024
Project Name : Monitoring
Project Location: WHA SIL

Lot ID: 25100539
Date Received : Dec 02, 2025
Date Reported : Dec 12, 2025
Report Number : 3438990-1

Sample Number	25100539-2
Sampled Date	Dec 02, 2025 11:05 AM
Sample Description	Surface water
Location	คลองหนองรู บริเวณต้นน้ำก่อนถึงจุดระบายน้ำทิ้ง ประมาณ 500 เมตร
Date Analysis Commenced	Dec 03, 2025
Condition of Sample	Contained in six plastic bottles, one amber glass bottle, two glass vials and two BOD bottles, 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	0.0010	≤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	0.14	≤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	0.002	≤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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Approved by Suwimon C.
Suwimon Chairuangwut
Scientist (3)

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: 25100539
Date Received : Dec 02, 2025
Date Reported : Dec 12, 2025
Report Number : 3438990-1

Sample Number	25100539-2
Sampled Date	Dec 02, 2025 11:05 AM
Sample Description	Surface water
Location	คลองหนองรู บริเวณต้นน้ำก่อนถึงจุดระบายน้ำทิ้ง ประมาณ 500 เมตร
Date Analysis Commenced	Dec 03, 2025
Condition of Sample	Contained in six plastic bottles, one amber glass bottle, two glass vials and two BOD bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Zinc	mg/L	0.003	0.005	0.008	≤1	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Microbiological Testing							
Total Coliform	MPN/100mL	-	-	1300.0	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 9221 B	Bangkok
Water Testing							
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	2.1	≤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	443	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	8.7	≥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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Suwimon Chairuangwut
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, Nongkhae, Saraburi Thailand 18140
P/O : 54250024
Project Name : Monitoring
Project Location: WHA SIL

Lot ID: 25100539
Date Received : Dec 02, 2025
Date Reported : Dec 12, 2025
Report Number : 3438990-1

Sample Number	25100539-2
Sampled Date	Dec 02, 2025 11:05 AM
Sample Description	Surface water
Location	คลองหนองรู บริเวณต้นน้ำก่อนถึงจุดระบายน้ำทิ้ง ประมาณ 500 เมตร
Date Analysis Commenced	Dec 03, 2025
Condition of Sample	Contained in six plastic bottles, one amber glass bottle, two glass vials and two BOD bottles, 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		-	-	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	-	-	27.2	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	247	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	16	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 Gazettle, 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

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 Suwimon C.
Suwimon Chairuangwut
Scientist (3)

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: 25100539
Date Received : Dec 02, 2025
Date Reported : Dec 12, 2025
Report Number : 3438990-1

Sample Number	25100539-3
Sampled Date	Dec 02, 2025 11:20 AM
Sample Description	Surface water
Location	คลองหนองรู ทำยน้ำจากจุดระบายน้ำทิ้งลงมา ประมาณ 500 เมตร
Date Analysis Commenced	Dec 03, 2025
Condition of Sample	Contained in six plastic bottles, one amber glass bottle, two glass vials and two BOD bottles, 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	0.001	≤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	0.08	≤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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Approved by Suwimon C.
Suwimon Chairuangwut
Scientist (3)

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: 25100539
Date Received : Dec 02, 2025
Date Reported : Dec 12, 2025
Report Number : 3438990-1

Sample Number	25100539-3
Sampled Date	Dec 02, 2025 11:20 AM
Sample Description	Surface water
Location	คลองหนองรู ท่ายน้ำจากจุดระบายน้ำทั้งลงมา ประมาณ 500 เมตร
Date Analysis Commenced	Dec 03, 2025
Condition of Sample	Contained in six plastic bottles, one amber glass bottle, two glass vials and two BOD bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
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
Microbiological Testing							
Total Coliform	MPN/100mL	-	-	110.0	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 9221 B	Bangkok
Water Testing							
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	349	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	10.8	≥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 Suwimon C.
Suwimon Chairuangwut
Scientist (3)

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: 25100539
Date Received : Dec 02, 2025
Date Reported : Dec 12, 2025
Report Number : 3438990-1

Sample Number	25100539-3
Sampled Date	Dec 02, 2025 11:20 AM
Sample Description	Surface water
Location	คลองหนองรู ท่ายน้ำจากจุดระบายน้ำทั้งลงมา ประมาณ 500 เมตร
Date Analysis Commenced	Dec 03, 2025
Condition of Sample	Contained in six plastic bottles, one amber glass bottle, two glass vials and two BOD bottles, 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	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		-	-	8.4	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	-	-	27.1	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	183	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	10	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 Gazettle, 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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Approved by Suwimon C.
Suwimon Chairuangwut
Scientist (3)

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ภาคผนวก ค-4

ปริมาณโลหะหนักในตะกอนดิน

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

Sample Number	2530635-1
Sampled Date	Apr 02, 2025 10:05 AM
Sample Description	Soil (Dry Basis)
Location	คลองหนองรู ต้นน้ำเหนือจุดระบายน้ำทิ้งจากโครงการ ประมาณ 500 เมตร
Date Analysis Commenced	Apr 03, 2025
Condition of Sample	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	Testing Location
Metals Testing								
Arsenic	mg/kg	-	0.50	1.58	≤10	≤33	United States Environmental Protection Agency, EPA Method 3050 B and 6010 D	Bangkok
Cadmium	mg/kg	-	0.50	<0.50	≤1	≤5	United States Environmental Protection Agency, EPA Method 3050 B and 6010 D	Bangkok
Copper	mg/kg	-	1.00	33.0	≤31.5	≤150	United States Environmental Protection Agency, EPA Method 3050 B and 6010 D	Bangkok
Hexavalent Chromium	mg/kg	-	0.25	<0.25	No Standard	No Standard	United States Environmental Protection Agency, EPA Method 3060 A and 7196 A	Bangkok
Lead	mg/kg	-	1.00	16.3	≤36	≤130	United States Environmental Protection Agency, EPA Method 3050 B and 6010 D	Bangkok
Manganese	mg/kg	-	1.00	865	No Standard	No Standard	United States Environmental Protection Agency, EPA Method 3050 B and 6010 D	Bangkok
Mercury	mg/kg	-	0.10	<0.10	≤0.2	≤1	United States Environmental Protection Agency, EPA Method 7473	Bangkok
Nickel	mg/kg	-	1.00	16.0	≤23	≤50	United States Environmental Protection Agency, EPA Method 3050 B and 6010 D	Bangkok
Selenium	mg/kg	-	0.50	<0.50	No Standard	No Standard	United States Environmental Protection Agency, EPA Method 3050 B and 6010 D	Bangkok
Zinc	mg/kg	-	1.00	41.1	≤120	≤460	United States Environmental Protection Agency, EPA Method 3050 B and 6010 D	Bangkok
Physical Parameters								
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	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

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

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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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

Sample Number	2530635-2
Sampled Date	Apr 02, 2025 9:50 AM
Sample Description	Soil (Dry Basis)
Location	คลองหนองรู บริเวณจุดระบายน้ำทิ้งจากโครงการ
Date Analysis Commenced	Apr 03, 2025
Condition of Sample	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	Testing Location
Metals Testing								
Arsenic	mg/kg	-	0.50	2.80	≤10	≤33	United States Environmental Protection Agency, EPA Method 3050 B and 6010 D	Bangkok
Cadmium	mg/kg	-	0.50	<0.50	≤1	≤5	United States Environmental Protection Agency, EPA Method 3050 B and 6010 D	Bangkok
Copper	mg/kg	-	1.00	30.1	≤31.5	≤150	United States Environmental Protection Agency, EPA Method 3050 B and 6010 D	Bangkok
Hexavalent Chromium	mg/kg	-	0.25	<0.25	No Standard	No Standard	United States Environmental Protection Agency, EPA Method 3060 A and 7196 A	Bangkok
Lead	mg/kg	-	1.00	14.9	≤36	≤130	United States Environmental Protection Agency, EPA Method 3050 B and 6010 D	Bangkok
Manganese	mg/kg	-	1.00	102	No Standard	No Standard	United States Environmental Protection Agency, EPA Method 3050 B and 6010 D	Bangkok
Mercury	mg/kg	-	0.10	<0.10	≤0.2	≤1	United States Environmental Protection Agency, EPA Method 7473	Bangkok
Nickel	mg/kg	-	1.00	8.15	≤23	≤50	United States Environmental Protection Agency, EPA Method 3050 B and 6010 D	Bangkok
Selenium	mg/kg	-	0.50	<0.50	No Standard	No Standard	United States Environmental Protection Agency, EPA Method 3050 B and 6010 D	Bangkok
Zinc	mg/kg	-	1.00	26.5	≤120	≤460	United States Environmental Protection Agency, EPA Method 3050 B and 6010 D	Bangkok
Physical Parameters								
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	Bangkok

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Approved by Sawitree N.
Sawitree Noisangiam
Manager

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

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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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

Sample Number	2530635-3
Sampled Date	Apr 02, 2025 10:25 AM
Sample Description	Soil (Dry Basis)
Location	คลองหนองรู ท้ายจุดระบายน้ำทิ้งของโครงการ ประมาณ 500 เมตร
Date Analysis Commenced	Apr 03, 2025
Condition of Sample	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	Testing Location
Metals Testing								
Arsenic	mg/kg	-	0.50	2.28	≤10	≤33	United States Environmental Protection Agency, EPA Method 3050 B and 6010 D	Bangkok
Cadmium	mg/kg	-	0.50	<0.50	≤1	≤5	United States Environmental Protection Agency, EPA Method 3050 B and 6010 D	Bangkok
Copper	mg/kg	-	1.00	30.8	≤31.5	≤150	United States Environmental Protection Agency, EPA Method 3050 B and 6010 D	Bangkok
Hexavalent Chromium	mg/kg	-	0.25	<0.25	No Standard	No Standard	United States Environmental Protection Agency, EPA Method 3060 A and 7196 A	Bangkok
Lead	mg/kg	-	1.00	18.1	≤36	≤130	United States Environmental Protection Agency, EPA Method 3050 B and 6010 D	Bangkok
Manganese	mg/kg	-	1.00	494	No Standard	No Standard	United States Environmental Protection Agency, EPA Method 3050 B and 6010 D	Bangkok
Mercury	mg/kg	-	0.10	<0.10	≤0.2	≤1	United States Environmental Protection Agency, EPA Method 7473	Bangkok
Nickel	mg/kg	-	1.00	11.8	≤23	≤50	United States Environmental Protection Agency, EPA Method 3050 B and 6010 D	Bangkok
Selenium	mg/kg	-	0.50	<0.50	No Standard	No Standard	United States Environmental Protection Agency, EPA Method 3050 B and 6010 D	Bangkok
Zinc	mg/kg	-	1.00	37.0	≤120	≤460	United States Environmental Protection Agency, EPA Method 3050 B and 6010 D	Bangkok
Physical Parameters								
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	Bangkok

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Approved by Sawitree N.
Sawitree Noisangiam
Manager

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

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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ภาคผนวก ค-5

คุณภาพน้ำทิ้ง (ระบบบำบัดน้ำเสียรวมทางชีวภาพ)

ALS

Analysis / Test Report

TESTING No.0009

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name :
Project Location: WHA SIL

Lot ID: 2559964
Date Received : Jul 01, 2025
Date Reported : Jul 08, 2025
Report Number : 3344162-1

Page 1 of 2

Sample Number	2559964-1
Sampled Date	Jul 01, 2025 11:35 AM
Sample Description	Group 1 Wastewater WW-Plant
Location	WHA SIL : WW-EF : ยล Chorine Contact Tank
Date Analysis Commenced	Jul 02, 2025
Condition of Sample	Contained in one amber glass bottle and seven plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property	Yellow, some odour, solid and no turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2.0	4.5	≤20	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Bangkok
COD	mg/L	-	25	44	≤120	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
Formaldehyde	mg/L	0.03	0.1	Not Detected	≤1.0	Wastewater analysis manual, Environmental Engineering Association of Thailand, 4th ed., 2004	Bangkok
Oil & Grease	mg/L	-	3	<3	≤5	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Bangkok
pH at 25 degree C		-	-	7.5	5.5-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Phenol	mg/L	0.0005	0.001	Not Detected	≤1.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5530 B, D	Bangkok
Sulfide *	mg/L	-	0.5	<0.5	≤1.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500-S2 (C, F)	Bangkok
Temperature *	Degree C	-	-	32.0	≤40	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Bangkok

Technical Management: Siriluk P. — Siriluk Bunnak, Section Head, ทะเบียนเลขที่ ว-204-ว-0013
Approved by: Kanokkorn Anek, Assistant General Manager, ทะเบียนเลขที่ ว-204-ต-0004

ALS

Analysis / Test Report

TESTING No.0009

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name :
Project Location: WHA SIL

Lot ID: 2559964
Date Received : Jul 01, 2025
Date Reported : Jul 08, 2025
Report Number : 3344162-1

Page 2 of 2

Sample Number	2559964-1
Sampled Date	Jul 01, 2025 11:35 AM
Sample Description	Group 1 Wastewater WW-Plant
Location	WHA SIL : WW-EF : ยล Chorine Contact Tank
Date Analysis Commenced	Jul 02, 2025
Condition of Sample	Contained in one amber glass bottle and seven plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property	Yellow, some odour, solid and no turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Total Dissolved solids Dried at 180 degree C	mg/L	-	5	1288	≤3000	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Bangkok
Total Kjeldahl Nitrogen as N *	mg/L	0.15	1.0	4.7	≤100	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500-Norg (C)	Bangkok
Total Phosphorus as P *	mg/L	0.2	0.5	1.9	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500-P (B, E)	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	15	≤50	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

Guideline : Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017).
Sampling By : Teerawat Puangsuk ทะเบียนเลขที่ ว-204-ว-0058

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

Technical Management: Siriluk P. — Siriluk Bunnak, Section Head, ทะเบียนเลขที่ ว-204-ว-0013
Approved by: Kanokkorn Anek, Assistant General Manager, ทะเบียนเลขที่ ว-204-ต-0004

ALS

Analysis / Test Report

TESTING No.0009

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name :
Project Location: WHA SIL

Lot ID: 2559964
Date Received : Jul 01, 2025
Date Reported : Jul 08, 2025
Report Number : 3344162-2

Page 1 of 2

Sample Number	2559964-1
Sampled Date	Jul 01, 2025 11:35 AM
Sample Description	Group 1 Wastewater WW-Plant
Location	WHA SIL : WW-EF : ยล Chorine Contact Tank
Date Analysis Commenced	Jul 02, 2025
Condition of Sample	Contained in one amber glass bottle and seven plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property	Yellow, some odour, solid and no turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Iron	mg/L	0.003	0.005	0.14	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Microbiological Testing							
Total Coliform	MPN/100mL	--	--	240000.0	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 9221 B	Bangkok
Water Testing							
Ammonia Nitrogen *	mg/L	-	0.06	1.87	No Standard	Based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500-NH3 (B, F)	Bangkok
Conductivity at 25 degree C *	micromhos/cm	-	0.5	2081	No Standard	Based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2510 B	Bangkok
Dissolved Oxygen (on site) *	mg/L	-	0.1	2.1	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500-O (G)	Bangkok
Nitrate as N *	mg/L	0.06	0.2	15.0	No Standard	Based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500-NO3 E	Bangkok
Nitrite as N *	mg/L	0.06	0.2	<0.200	No Standard	Based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500-NO2 B	Bangkok

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

Approved by: Sawitree N. — Sawitree Nosangiam, Manager

ALS

Analysis / Test Report

TESTING No.0009

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name :
Project Location: WHA SIL

Lot ID: 2559964
Date Received : Jul 01, 2025
Date Reported : Jul 08, 2025
Report Number : 3344162-2

Page 2 of 2

Remark :
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Approved by: Sawitree N. — Sawitree Nosangiam, Manager

ALS

Analysis / Test Report

TESTING No.0009

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name :
Project Location: WHA SIL

Lot ID: 2559965
Date Received : Jul 08, 2025
Date Reported : Jul 14, 2025
Report Number : 3344184-1

Page 1 of 1

Sample Number	2559965-1
Sampled Date	Jul 08, 2025 11:45 AM
Sample Description	Group 1 Wastewater WW-Plant
Location	WHA SIL : WW-EF : ยล Chorine Contact Tank
Date Analysis Commenced	Jul 09, 2025
Condition of Sample	Contained in two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property	Yellow, some odour, solid and no turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
COD	mg/L	-	25	41	≤120	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
pH at 25 degree C		-	-	7.5	5.5-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	10	≤50	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

Guideline : Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017).
Sampling By : Panupong Saneri ทะเบียนเลขที่ ว-204-ว-0204

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

Technical Management: Siriluk P. — Siriluk Bunnak, Section Head, ทะเบียนเลขที่ ว-204-ว-0013
Approved by: Kanokkorn Anek, Assistant General Manager, ทะเบียนเลขที่ ว-204-ต-0004

ALS

Analysis / Test Report

TESTING No.0009

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name :
Project Location: WHA SIL

Lot ID: 2559966
Date Received : Jul 15, 2025
Date Reported : Jul 19, 2025
Report Number : 3344188-1

Page 1 of 1

Sample Number	2559966-1
Sampled Date	Jul 15, 2025 11:40 AM
Sample Description	Group 1 Wastewater WW-Plant
Location	WHA SIL : WW-EF : ยล Chorine Contact Tank
Date Analysis Commenced	Jul 16, 2025
Condition of Sample	Contained in two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property	Yellow, some odour, solid and no turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
COD	mg/L	-	25	31	≤120	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
pH at 25 degree C		-	-	7.6	5.5-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	9	≤50	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

Guideline : Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017).
Sampling By : Teerawat Puangsuk ทะเบียนเลขที่ ว-204-ว-0058

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

Technical Management: Suwimon C. — Suwimon Chairsangwet, Scientist (3), ทะเบียนเลขที่ ว-204-ว-0018
Approved by: Kanokkorn Anek, Assistant General Manager, ทะเบียนเลขที่ ว-204-ต-0004

ALS

Analysis / Test Report

TESTING No.0009

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name :
Project Location: WHA SIL

Lot ID: 2559967
Date Received : Jul 22, 2025
Date Reported : Jul 26, 2025
Report Number : 3344198-1

Page 1 of 1

Sample Number	2559967-1
Sampled Date	Jul 22, 2025 9:45 AM
Sample Description	Group 1 Wastewater WW-Plant
Location	WHA SIL : WW-EF : ยล Chorine Contact Tank
Date Analysis Commenced	Jul 23, 2025
Condition of Sample	Contained in two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property	Yellow, some odour, solid and no turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
COD	mg/L	-	25	60	≤120	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
pH at 25 degree C		-	-	7.4	5.5-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	10	≤50	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

Guideline : Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017).
Sampling By : Panupong Saneri ทะเบียนเลขที่ ว-204-ว-0204

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

Technical Management: Suwimon C. — Suwimon Chairsangwet, Scientist (3), ทะเบียนเลขที่ ว-204-ว-0018
Approved by: Kanokkorn Anek, Assistant General Manager, ทะเบียนเลขที่ ว-204-ต-0004

ALS

Analysis / Test Report

TESTING No.0009

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name :
Project Location: WHA SIL

Lot ID: 2559968
Date Received : Jul 29, 2025
Date Reported : Aug 01, 2025
Report Number : 3344209-1

Page 1 of 1

Sample Number	2559968-1
Sampled Date	Jul 29, 2025 1:05 PM
Sample Description	Group 1 Wastewater WW-Plant
Location	WHA SIL : WW-EF : ยล Chorine Contact Tank
Date Analysis Commenced	Jul 30, 2025
Condition of Sample	Contained in two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property	Yellow, some odour, solid and no turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
COD	mg/L	-	25	30	≤120	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
pH at 25 degree C		-	-	7.4	5.5-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	7	≤50	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

Guideline : Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017).
Sampling By : Panupong Saneri ทะเบียนเลขที่ ว-204-ว-0204

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Technical Management: Nanthawadee Somboon, Specialist 2, ทะเบียนเลขที่ ว-204-ว-0010
Approved by: Kanokkorn Anek, Assistant General Manager, ทะเบียนเลขที่ ว-204-ต-0004

ALS

Analysis / Test Report

TESTING No.0009

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name :
Project Location: WHA SIL

Lot ID: 2569670
Date Received : Aug 05, 2025
Date Reported : Aug 13, 2025
Report Number : 3366083-1

Page 1 of 2

Sample Number	2569670-1
Sampled Date	Aug 05, 2025 10:00 AM
Sample Description	Group 1 Wastewater WW-Plant
Location	WHA SIL : WW-EF : ยล Chorine Contact Tank
Date Analysis Commenced	Aug 06, 2025
Condition of Sample	Contained in one amber glass bottle and seven plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property	Yellow, some odour, solid and no turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2.0	5.6	≤20	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Bangkok
COD	mg/L	-	25	41	≤120	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
Formaldehyde	mg/L	0.03	0.1	Not Detected	≤1.0	Wastewater analysis manual, Environmental Engineering Association of Thailand, 4th ed., 2004	Bangkok
Oil & Grease	mg/L	-	3	<3	≤5	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Bangkok
pH at 25 degree C		-	-	7.4	5.5-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Phenol	mg/L	0.0005	0.001	Not Detected	≤1.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5530 B, D	Bangkok
Sulfide *	mg/L	-	0.5	<0.5	≤1.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500-S2 (C, F)	Bangkok
Temperature *	Degree C	-	-	32.7	≤40	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Bangkok

Technical Management: Suwimon C. — Suwimon Chairsangwet, Scientist (3), ทะเบียนเลขที่ ว-204-ว-0018
Approved by: Kanokkorn Anek, Assistant General Manager, ทะเบียนเลขที่ ว-204-ต-0004

Analysis / Test Report

TESTING No.0009

Lot ID: 2569670
Date Received : Aug 05, 2025
Date Reported : Aug 13, 2025
Report Number : 3366083-1

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name :
Project Location : WHA SIL

Sample Number	2569670-1
Sampled Date	Aug 05, 2025 10:00 AM
Sample Description	Group 1 Wastewater WW-Plant
Location	WHA SIL : WW-EF : บ่อ Chorine Contact Tank
Date Analysis Commenced	Aug 06, 2025
Condition of Sample	Contained in one amber glass bottle and seven plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property	Yellow, some odour, solid and no turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Total Dissolved solids Dried at 180 degree C	mg/L	-	5	1098	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Bangkok
Total Kjeldahl Nitrogen as N *	mg/L	0.15	1.0	7.2	≤100	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-Norg (C)	Bangkok
Total Phosphorus as P *	mg/L	0.2	0.5	2.4	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-P (B, E)	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	13	≤50	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

Guideline : Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017).
Sampling By : Panupong Saneri ทะเบียนเลขที่ ว-204-ว-0204

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Technical Management Suwimon C. — Suwimon Chairungwut, Scientist (3), ทะเบียนเลขที่ ว-204-ว-0018
Approved by Kanokkorn Anek, Assistant General Manager, ทะเบียนเลขที่ ว-204-ส-0004

Analysis / Test Report

TESTING No.0009

Lot ID: 2569670
Date Received : Aug 05, 2025
Date Reported : Aug 13, 2025
Report Number : 3366083-2

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name :
Project Location : WHA SIL

Sample Number	2569670-1
Sampled Date	Aug 05, 2025 10:00 AM
Sample Description	Group 1 Wastewater WW-Plant
Location	WHA SIL : WW-EF : บ่อ Chorine Contact Tank
Date Analysis Commenced	Aug 06, 2025
Condition of Sample	Contained in one amber glass bottle and seven plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property	Yellow, some odour, solid and no turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Iron	mg/L	0.003	0.005	0.21	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Microbiological Testing							
Total Coliform	MPN/100mL	-	-	330000.0	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 9221 B	Bangkok
Water Testing							
Ammonia Nitrogen *	mg/L	-	0.06	5.80	No Standard	Based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-NH3 (B, F)	Bangkok
Conductivity at 25 degree C *	micromhos/cm	-	0.5	1713	No Standard	Based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2510 B	Bangkok
Dissolved Oxygen (on site) *	mg/L	-	0.1	2.4	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-O (G)	Bangkok
Nitrate as N *	mg/L	0.06	0.2	6.43	No Standard	Based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-NO3 E	Bangkok
Nitrite as N *	mg/L	0.06	0.2	0.203	No Standard	Based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-NO2 B	Bangkok

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

Approved by Savitree N. — Savitree Nolsangiam, Manager

Analysis / Test Report

TESTING No.0009

Lot ID: 2569670
Date Received : Aug 05, 2025
Date Reported : Aug 13, 2025
Report Number : 3366083-2

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name :
Project Location : WHA SIL

Remark :
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Approved by Savitree N. — Savitree Nolsangiam, Manager

Analysis / Test Report

TESTING No.0009

Lot ID: 2569671
Date Received : Aug 13, 2025
Date Reported : Aug 18, 2025
Report Number : 3366102-1

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name :
Project Location : WHA SIL

Sample Number	2569671-1
Sampled Date	Aug 13, 2025 9:25 AM
Sample Description	Group 1 Wastewater WW-Plant
Location	WHA SIL : WW-EF : บ่อ Chorine Contact Tank
Date Analysis Commenced	Aug 14, 2025
Condition of Sample	Contained in two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property	Yellow, some odour, solid and no turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
COD	mg/L	-	25	36	≤120	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
pH at 25 degree C		-	-	7.7	5.5-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	5	≤50	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

Guideline : Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017).
Sampling By : Panupong Saneri ทะเบียนเลขที่ ว-204-ว-0204

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

Technical Management Suwimon C. — Suwimon Chairungwut, Scientist (3), ทะเบียนเลขที่ ว-204-ว-0018
Approved by Kanokkorn Anek, Assistant General Manager, ทะเบียนเลขที่ ว-204-ส-0004

Analysis / Test Report

TESTING No.0009

Lot ID: 2569672
Date Received : Aug 19, 2025
Date Reported : Aug 22, 2025
Report Number : 3366103-1

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name :
Project Location : WHA SIL

Sample Number	2569672-1
Sampled Date	Aug 19, 2025 10:25 AM
Sample Description	Group 1 Wastewater WW-Plant
Location	WHA SIL : WW-EF : บ่อ Chorine Contact Tank
Date Analysis Commenced	Aug 20, 2025
Condition of Sample	Contained in two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property	Yellow, some odour, solid and no turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
COD	mg/L	-	25	38	≤120	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
pH at 25 degree C		-	-	7.4	5.5-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	12	≤50	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

Guideline : Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017).
Sampling By : Teerawat Puangsuk ทะเบียนเลขที่ ว-204-ว-0050

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

Technical Management Nant Somb — Nanthawadee Somboon, Specialist 2, ทะเบียนเลขที่ ว-204-ว-0010
Approved by Kanokkorn Anek, Assistant General Manager, ทะเบียนเลขที่ ว-204-ส-0004

Analysis / Test Report

TESTING No.0009

Lot ID: 2569673
Date Received : Aug 26, 2025
Date Reported : Aug 29, 2025
Report Number : 3366106-1

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name :
Project Location : WHA SIL

Sample Number	2569673-1
Sampled Date	Aug 26, 2025 2:15 PM
Sample Description	Group 1 Wastewater WW-Plant
Location	WHA SIL : WW-EF : บ่อ Chorine Contact Tank
Date Analysis Commenced	Aug 27, 2025
Condition of Sample	Contained in two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property	Yellow, some odour, solid and no turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
COD	mg/L	-	25	28	≤120	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
pH at 25 degree C		-	-	7.7	5.5-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	11	≤50	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

Guideline : Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017).
Sampling By : Panupong Saneri ทะเบียนเลขที่ ว-204-ว-0204

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

Technical Management Siriluk P. — Siriluk Bunnak, Section Head, ทะเบียนเลขที่ ว-204-ว-0013
Approved by Kanokkorn Anek, Assistant General Manager, ทะเบียนเลขที่ ว-204-ส-0004

Analysis / Test Report

TESTING No.0009

Lot ID: 2579707
Date Received : Sep 02, 2025
Date Reported : Sep 25, 2025
Report Number : 3389545-1 Rev. No.1

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name :
Project Location : WHA SIL

Sample Number	2579707-1
Sampled Date	Sep 02, 2025 10:41 AM
Sample Description	Group 1 Wastewater WW-Plant
Location	WHA SIL : WW-EF : บ่อ Chorine Contact Tank
Date Analysis Commenced	Sep 03, 2025
Condition of Sample	Contained in two glass vials, eight plastic bottles and one amber glass bottle, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property	Yellow, some odour, solid, and no turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Cadmium	mg/L	0.0003	0.0005	Not Detected	≤0.03	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	≤2.0	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	≤0.25	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	≤0.2	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	≤0.005	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3112	Bangkok
Nickel	mg/L	0.0003	0.0005	0.01	≤1.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Trivalent Chromium *	mg/L	-	0.01	<0.01	≤0.75	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok

Technical Management Savitree N. — Savitree Nolsangiam, Manager, ทะเบียนเลขที่ ว-204-ว-0007
Approved by Kanokkorn Anek, Assistant General Manager, ทะเบียนเลขที่ ว-204-ส-0004

Analysis / Test Report

TESTING No.0009

Lot ID: 2579707
Date Received : Sep 02, 2025
Date Reported : Sep 25, 2025
Report Number : 3389545-1 Rev. No.1

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name :
Project Location : WHA SIL

Sample Number	2579707-1
Sampled Date	Sep 02, 2025 10:41 AM
Sample Description	Group 1 Wastewater WW-Plant
Location	WHA SIL : WW-EF : บ่อ Chorine Contact Tank
Date Analysis Commenced	Sep 03, 2025
Condition of Sample	Contained in two glass vials, eight plastic bottles and one amber glass bottle, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property	Yellow, some odour, solid, and no turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Zinc	mg/L	0.003	0.005	0.05	≤5.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2.0	4.7	≤20	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Bangkok
COD	mg/L	-	25	38	≤120	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
Formaldehyde	mg/L	0.03	0.1	<0.1	≤1.0	Wastewater analysis manual, Environmental Engineering Association of Thailand, 4th ed., 2004	Bangkok
Oil & Grease	mg/L	-	3	<3	≤5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Bangkok
pH at 25 degree C		-	-	7.5	5.5-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Phenol	mg/L	0.0005	0.001	Not Detected	≤1.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5530 B, D	Bangkok
Sulfide *	mg/L	-	0.5	<0.5	≤1.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-S2 (C, F)	Bangkok

Technical Management Savitree N. — Savitree Nolsangiam, Manager, ทะเบียนเลขที่ ว-204-ว-0007
Approved by Kanokkorn Anek, Assistant General Manager, ทะเบียนเลขที่ ว-204-ส-0004

Analysis / Test Report

TESTING No.0009

Lot ID: 2579707
Date Received : Sep 02, 2025
Date Reported : Sep 25, 2025
Report Number : 3389545-1 Rev. No.1

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name :
Project Location : WHA SIL

Sample Number	2579707-1
Sampled Date	Sep 02, 2025 10:41 AM
Sample Description	Group 1 Wastewater WW-Plant
Location	WHA SIL : WW-EF : บ่อ Chorine Contact Tank
Date Analysis Commenced	Sep 03, 2025
Condition of Sample	Contained in two glass vials, eight plastic bottles and one amber glass bottle, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property	Yellow, some odour, solid, and no turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Temperature *	Degree C	-	-	32.8	≤40	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	1172	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Bangkok
Total Kjeldahl Nitrogen as N *	mg/L	0.15	1.0	5.4	≤100	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-Norg (C)	Bangkok
Total Phosphorus as P *	mg/L	0.2	0.5	2.7	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-P (B, E)	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	9	≤50	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

Guideline : Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017).
Note : This Analysis test report is reissued to supersede report No.3389545-1, Date Reported : Sep 09, 2025 due to revise sample information.
Sampling By : Panupong Saneri ทะเบียนเลขที่ ว-204-ว-0204

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

Technical Management Savitree N. — Savitree Nolsangiam, Manager, ทะเบียนเลขที่ ว-204-ว-0007
Approved by Kanokkorn Anek, Assistant General Manager, ทะเบียนเลขที่ ว-204-ส-0004

Analysis / Test Report

TESTING No.0009

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name :
Project Location: WHA SIL

Lot ID: 2579707
Date Received : Sep 02, 2025
Date Reported : Sep 25, 2025
Report Number : 3389545-2 Rev. No.1

Sample Number	2579707-1
Sampled Date	Sep 02, 2025 10:41 AM
Sample Description	Group 1 Wastewater WW-Plant
Location	WHA SIL : WW-EF : บ่อ Chorine Contact Tank
Date Analysis Commenced	Sep 03, 2025
Condition of Sample	Contained in two glass vials, eight plastic bottles and one amber glass bottle, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property	Yellow, some odour, solid, and no turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Iron	mg/L	0.003	0.005	0.12	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3125 B, 3030 F	Bangkok
Microbiological Testing							
Total Coliform	MPN/100mL	–	–	130000.0	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 9221 B	Bangkok
Water Testing							
Ammonia Nitrogen *	mg/L	-	0.06	3.10	No Standard	Based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500-NH3 (B, F)	Bangkok
Conductivity at 25 degree C *	micromhos/cm	-	0.5	1977	No Standard	Based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2510 B	Bangkok
Dissolved Oxygen (on site) *	mg/L	-	0.1	2.7	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500-O (G)	Bangkok
Nitrate as N *	mg/L	0.06	0.2	10.5	No Standard	Based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500-NO3 E	Bangkok
Nitrite as N *	mg/L	0.06	0.2	0.322	No Standard	Based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500-NO2 B	Bangkok

Guideline : Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017).
Note : This Analysis test report is reissued to supersede report No.3389545-1, Date Reported : Sep 09, 2025 due to revise sample information.

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

Analysis / Test Report

TESTING No.0009

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name :
Project Location: WHA SIL

Lot ID: 2579707
Date Received : Sep 02, 2025
Date Reported : Sep 25, 2025
Report Number : 3389545-2 Rev. No.1

Sampling By : Panupong Sanert

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

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

Analysis / Test Report

TESTING No.0009

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name :
Project Location: WHA SIL

Lot ID: 2579708
Date Received : Sep 09, 2025
Date Reported : Sep 12, 2025
Report Number : 3389561-1

Sample Number	2579708-1
Sampled Date	Sep 09, 2025 12:35 PM
Sample Description	Group 1 Wastewater WW-Plant
Location	WHA SIL : WW-EF : บ่อ Chorine Contact Tank
Date Analysis Commenced	Sep 10, 2025
Condition of Sample	Contained in two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property	Yellow, some odour, solid and no turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
COD	mg/L	–	25	43	≤120	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
pH at 25 degree C		-	-	7.6	5.5-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	18	≤50	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

Guideline : Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017).
Sampling By : Panupong Sanert ทะเบียนเลขที่ ว-204-ว-0204

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

Technical Management Narin Saiseng, Supervisor, ทะเบียนเลขที่ ว-204-ว-0009
Approved by Kanokkorn Anek, Assistant General Manager, ทะเบียนเลขที่ ว-204-ว-0004

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

Analysis / Test Report

TESTING No.0009

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name :
Project Location: WHA SIL

Lot ID: 2579709
Date Received : Sep 17, 2025
Date Reported : Sep 22, 2025
Report Number : 3389568-1

Sample Number	2579709-1
Sampled Date	Sep 17, 2025 10:15 AM
Sample Description	Group 1 Wastewater WW-Plant
Location	WHA SIL : WW-EF : บ่อ Chorine Contact Tank
Date Analysis Commenced	Sep 18, 2025
Condition of Sample	Contained in two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property	Yellow, some odour, a lot of solid and no turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
COD	mg/L	-	25	51	≤120	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
pH at 25 degree C		-	-	7.5	5.5-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	21	≤50	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

Guideline : Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017).
Sampling By : Chawanthat Nakpanom ทะเบียนเลขที่ ว-204-ว-0087

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

Technical Management Siriluk P. — Siriluk Bumrak, Section Head, ทะเบียนเลขที่ ว-204-ว-0013
Approved by Kanokkorn Anek, Assistant General Manager, ทะเบียนเลขที่ ว-204-ว-0004

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

Analysis / Test Report

TESTING No.0009

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name :
Project Location: WHA SIL

Lot ID: 2579710
Date Received : Sep 23, 2025
Date Reported : Sep 27, 2025
Report Number : 3389575-1

Sample Number	2579710-1
Sampled Date	Sep 23, 2025 9:24 AM
Sample Description	Group 1 Wastewater WW-Plant
Location	WHA SIL : WW-EF : บ่อ Chorine Contact Tank
Date Analysis Commenced	Sep 24, 2025
Condition of Sample	Contained in two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property	Yellow, some odour, solid and no turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
COD	mg/L	-	25	37	≤120	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
pH at 25 degree C		-	-	7.6	5.5-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	13	≤50	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

Guideline : Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017).
Sampling By : Teeranot Psangsuk ทะเบียนเลขที่ ว-204-ว-0058

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

Technical Management Suwimon C. — Suwimon Chairsangmut, Scientist (3), ทะเบียนเลขที่ ว-204-ว-0018
Approved by Kanokkorn Anek, Assistant General Manager, ทะเบียนเลขที่ ว-204-ว-0004

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

Analysis / Test Report

TESTING No.0009

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name :
Project Location: WHA SIL

Lot ID: 2579711
Date Received : Sep 30, 2025
Date Reported : Oct 03, 2025
Report Number : 3389578-1

Sample Number	2579711-1
Sampled Date	Sep 30, 2025 9:10 AM
Sample Description	Group 1 Wastewater WW-Plant
Location	WHA SIL : WW-EF : บ่อ Chorine Contact Tank
Date Analysis Commenced	Oct 01, 2025
Condition of Sample	Contained in two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property	Yellow, some odour, solid and no turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
COD	mg/L	-	25	30	≤120	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
pH at 25 degree C		-	-	7.4	5.5-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	21	≤50	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

Guideline : Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017).
Sampling By : Panupong Sanert ทะเบียนเลขที่ ว-204-ว-0204

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

Technical Management Suwimon C. — Suwimon Chairsangmut, Scientist (3), ทะเบียนเลขที่ ว-204-ว-0018
Approved by Kanokkorn Anek, Assistant General Manager, ทะเบียนเลขที่ ว-204-ว-0004

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

Analysis / Test Report

TESTING No.0009

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name :
Project Location: WHA SIL

Lot ID: 2589438
Date Received : Oct 07, 2025
Date Reported : Oct 15, 2025
Report Number : 3412847-1

Sample Number	2589438-1
Sampled Date	Oct 07, 2025 9:30 AM
Sample Description	Group 1 Wastewater WW-Plant
Location	WHA SIL : WW-EF : บ่อ Chorine Contact Tank
Date Analysis Commenced	Oct 08, 2025
Condition of Sample	Contained in seven plastic bottles and one amber glass bottle, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property	Yellow, some odour, solid and no turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2.0	<2.0	≤20	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Bangkok
COD	mg/L	-	25	39	≤120	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
Formaldehyde	mg/L	0.03	0.1	Not Detected	≤1.0	Wastewater analysis manual, Environmental Engineering Association of Thailand, 4th ed., 2004	Bangkok
Oil & Grease	mg/L	-	3	<3	≤5	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Bangkok
pH at 25 degree C		-	-	7.5	5.5-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Phenol	mg/L	0.005	0.01	Not Detected	≤1.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5530 D	Bangkok
Sulfide *	mg/L	-	0.5	<0.5	≤1.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500-S2 (C, F)	Bangkok
Temperature *	Degree C	-	-	31.4	≤40	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Bangkok

Technical Management Narin Saiseng, Supervisor, ทะเบียนเลขที่ ว-204-ว-0009
Approved by Kanokkorn Anek, Assistant General Manager, ทะเบียนเลขที่ ว-204-ว-0004

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Analysis / Test Report

TESTING No.0009

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name :
Project Location: WHA SIL

Lot ID: 2589438
Date Received : Oct 07, 2025
Date Reported : Oct 15, 2025
Report Number : 3412847-1

Sample Number	2589438-1
Sampled Date	Oct 07, 2025 9:30 AM
Sample Description	Group 1 Wastewater WW-Plant
Location	WHA SIL : WW-EF : บ่อ Chorine Contact Tank
Date Analysis Commenced	Oct 08, 2025
Condition of Sample	Contained in seven plastic bottles and one amber glass bottle, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property	Yellow, some odour, solid and no turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Total Dissolved solids Dried at 180 degree C	mg/L	-	5	1080	≤3000	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Bangkok
Total Kjeldahl Nitrogen as N *	mg/L	0.15	1.0	2.8	≤100	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500-Norg (C)	Bangkok
Total Phosphorus as P *	mg/L	0.2	0.5	2.3	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500-P (B, E)	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	11	≤50	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

Guideline : Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017).
Sampling By : Chainarong Sriborin ทะเบียนเลขที่ ว-204-ว-0149

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

Technical Management Narin Saiseng, Supervisor, ทะเบียนเลขที่ ว-204-ว-0009
Approved by Kanokkorn Anek, Assistant General Manager, ทะเบียนเลขที่ ว-204-ว-0004

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

Analysis / Test Report

TESTING No.0009

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name :
Project Location: WHA SIL

Lot ID: 2589438
Date Received : Oct 07, 2025
Date Reported : Oct 15, 2025
Report Number : 3412847-2

Sample Number	2589438-1
Sampled Date	Oct 07, 2025 9:30 AM
Sample Description	Group 1 Wastewater WW-Plant
Location	WHA SIL : WW-EF : บ่อ Chorine Contact Tank
Date Analysis Commenced	Oct 08, 2025
Condition of Sample	Contained in seven plastic bottles and one amber glass bottle, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property	Yellow, some odour, solid and no turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Iron	mg/L	0.003	0.005	0.14	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3125 B, 3030 F	Bangkok
Microbiological Testing							
Total Coliform	MPN/100mL	–	–	33000.0	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 9221 B	Bangkok
Water Testing							
Ammonia Nitrogen *	mg/L	-	0.06	1.29	No Standard	Based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500-NH3 (B, F)	Bangkok
Conductivity at 25 degree C *	micromhos/cm	-	0.5	1826	No Standard	Based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2510 B	Bangkok
Dissolved Oxygen (on site) *	mg/L	-	0.1	1.9	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500-O (G)	Bangkok
Nitrate as N *	mg/L	0.06	0.2	5.01	No Standard	Based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500-NO3 E	Bangkok
Nitrite as N *	mg/L	0.06	0.2	<0.200	No Standard	Based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500-NO2 B	Bangkok

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

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 Chanatt L.
Chanattagarn Inchom
Section Head

Analysis / Test Report

TESTING No.0009

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name :
Project Location : WHA SIL

Lot ID: 2589438
Date Received : Oct 07, 2025
Date Reported : Oct 15, 2025
Report Number : 3412847-2

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

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 Chanattagarn Inchom, Section Head

Analysis / Test Report

TESTING No.0009

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name :
Project Location : WHA SIL

Lot ID: 2589439
Date Received : Oct 14, 2025
Date Reported : Oct 17, 2025
Report Number : 3412909-1

Sample Number 2589439-1
Sampled Date Oct 14, 2025 1:00 PM
Sample Description Group 1 Wastewater WW-Plant
Location WHA SIL : WW-EF : บ่อ Chorine Contact Tank
Date Analysis Commenced Oct 15, 2025
Condition of Sample Contained in two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property Yellow, some odour, solid and no turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
COD	mg/L	-	25	37	≤120	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
pH at 25 degree C		-	-	7.5	5.5-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	13	≤50	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

Guideline : Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017).
Sampling By : Panupong Saneri ทะเบียนเลขที่ ว-204-ว-0204

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

Technical Management Nanthawadee Somboon, Specialist 2, ทะเบียนเลขที่ ว-204-ว-0010
Approved by Kanokkorn Anek, Assistant General Manager, ทะเบียนเลขที่ ว-204-ฅ-0004

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

Analysis / Test Report

TESTING No.0009

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name :
Project Location : WHA SIL

Lot ID: 2589440
Date Received : Oct 21, 2025
Date Reported : Oct 27, 2025
Report Number : 3412910-1

Sample Number 2589440-1
Sampled Date Oct 21, 2025 1:05 PM
Sample Description Group 1 Wastewater WW-Plant
Location WHA SIL : WW-EF : บ่อ Chorine Contact Tank
Date Analysis Commenced Oct 22, 2025
Condition of Sample Contained in two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property Yellow, some odour, solid and no turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
COD	mg/L	-	25	26	≤120	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
pH at 25 degree C		-	-	7.7	5.5-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	6	≤50	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

Guideline : Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017).
Sampling By : Panupong Saneri ทะเบียนเลขที่ ว-204-ว-0204

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

Technical Management Siriluk Bunnak, Section Head, ทะเบียนเลขที่ ว-204-ว-0013
Approved by Kanokkorn Anek, Assistant General Manager, ทะเบียนเลขที่ ว-204-ฅ-0004

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

Analysis / Test Report

TESTING No.0009

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name :
Project Location : WHA SIL

Lot ID: 2589441
Date Received : Oct 28, 2025
Date Reported : Oct 31, 2025
Report Number : 3412911-1

Sample Number 2589441-1
Sampled Date Oct 28, 2025 8:55 AM
Sample Description Group 1 Wastewater WW-Plant
Location WHA SIL : WW-EF : บ่อ Chorine Contact Tank
Date Analysis Commenced Oct 29, 2025
Condition of Sample Contained in two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property Yellow, some odour, solid and no turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
COD	mg/L	-	25	34	≤120	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
pH at 25 degree C		-	-	7.5	5.5-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	<5	≤50	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

Guideline : Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017).
Sampling By : Panupong Saneri ทะเบียนเลขที่ ว-204-ว-0204

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

Technical Management Nanthawadee Somboon, Specialist 2, ทะเบียนเลขที่ ว-204-ว-0010
Approved by Kanokkorn Anek, Assistant General Manager, ทะเบียนเลขที่ ว-204-ฅ-0004

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

Analysis / Test Report

TESTING No.0009

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name :
Project Location : WHA SIL

Lot ID: 2598683
Date Received : Nov 04, 2025
Date Reported : Nov 11, 2025
Report Number : 3435135-1

Sample Number 2598683-1
Sampled Date Nov 04, 2025 11:10 AM
Sample Description Group 1 Wastewater WW-Plant
Location WHA SIL : WW-EF : บ่อ Chorine Contact Tank
Date Analysis Commenced Nov 05, 2025
Condition of Sample Contained in one amber glass bottle and eight plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property Yellow, some odour, a lot of solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	1.0	13.4	≤20	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Bangkok
COD	mg/L	-	25	71	≤120	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
Color (at Original pH)	ADMI	-	5	19	≤300	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2120 F	Bangkok
Color (at pH 7.0)	ADMI	-	5	16	≤300	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2120 F	Bangkok
Formaldehyde	mg/L	0.03	0.1	Not Detected	≤1.0	Wastewater analysis manual, Environmental Engineering Association of Thailand, 4th ed., 2004	Bangkok
Oil & Grease	mg/L	-	3	<3	≤5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Bangkok
pH at 25 degree C		-	-	7.5	5.5-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Phenol	mg/L	0.005	0.01	Not Detected	≤1.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5530 D	Bangkok

Technical Management Suwimon Chairangsrit, Scientist (3), ทะเบียนเลขที่ ว-204-ว-0018
Approved by Kanokkorn Anek, Assistant General Manager, ทะเบียนเลขที่ ว-204-ฅ-0004

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

Analysis / Test Report

TESTING No.0009

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name :
Project Location : WHA SIL

Lot ID: 2598683
Date Received : Nov 04, 2025
Date Reported : Nov 11, 2025
Report Number : 3435135-1

Sample Number 2598683-1
Sampled Date Nov 04, 2025 11:10 AM
Sample Description Group 1 Wastewater WW-Plant
Location WHA SIL : WW-EF : บ่อ Chorine Contact Tank
Date Analysis Commenced Nov 05, 2025
Condition of Sample Contained in one amber glass bottle and eight plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property Yellow, some odour, a lot of solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Sulfide *	mg/L	-	0.5	<0.5	≤1.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-S2 (C, F)	Bangkok
Temperature *	Degree C	-	-	29.9	≤40	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	816	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Bangkok
Total Kjeldahl Nitrogen as N *	mg/L	0.15	1.0	5.9	≤100	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-Norg (C)	Bangkok
Total Phosphorus as P *	mg/L	0.2	0.5	5.5	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-P (B, E)	Bangkok

Guideline : Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017).
Sampling By : Panupong Saneri ทะเบียนเลขที่ ว-204-ว-0204

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

Technical Management Suwimon Chairangsrit, Scientist (3), ทะเบียนเลขที่ ว-204-ว-0018
Approved by Kanokkorn Anek, Assistant General Manager, ทะเบียนเลขที่ ว-204-ฅ-0004

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

Analysis / Test Report

TESTING No.0009

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name :
Project Location : WHA SIL

Lot ID: 2598683
Date Received : Nov 04, 2025
Date Reported : Nov 11, 2025
Report Number : 3435135-3

Sample Number 2598683-1
Sampled Date Nov 04, 2025 11:10 AM
Sample Description Group 1 Wastewater WW-Plant
Location WHA SIL : WW-EF : บ่อ Chorine Contact Tank
Date Analysis Commenced Nov 05, 2025
Condition of Sample Contained in one amber glass bottle and eight plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property Yellow, some odour, a lot of solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Iron	mg/L	0.003	0.005	0.86	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3111 B,3030 F	Bangkok
Microbiological Testing							
Total Coliform	MPN/100mL	-	-	490000.0	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 9221 B	Bangkok
Water Testing							
Ammonia Nitrogen *	mg/L	-	0.06	2.72	No Standard	Based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-NH3 (B, F)	Bangkok
Conductivity at 25 degree C *	micromhos/cm	-	0.5	1592	No Standard	Based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2510 B	Bangkok
Dissolved Oxygen (on site) *	mg/L	-	0.1	3.8	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-O (G)	Bangkok
Nitrate as N *	mg/L	0.06	0.2	2.93	No Standard	Based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-NO3 E	Bangkok
Nitrite as N *	mg/L	0.08	0.2	0.203	No Standard	Based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-NO2 B	Bangkok

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

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 Nosangiam, Manager

Analysis / Test Report

TESTING No.0009

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name :
Project Location : WHA SIL

Lot ID: 2598683
Date Received : Nov 04, 2025
Date Reported : Nov 11, 2025
Report Number : 3435135-3

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

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 Nosangiam, Manager

Analysis / Test Report

TESTING No.0009

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name :
Project Location : WHA SIL

Lot ID: 25104619
Date Received : Nov 14, 2025
Date Reported : Nov 19, 2025
Report Number : 3449999-1

Sample Number 25104619-1
Sampled Date Nov 14, 2025 1:40 PM
Sample Description Wastewater
Location WHA SIL : WW-EF : บ่อ Chorine Contact Tank
Date Analysis Commenced Nov 15, 2025
Condition of Sample Contained in one plastic bottle, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property Yellow, odourless, some solid and no turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	7	≤50	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

Guideline : Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017).
Sampling By : Teerawat Puangsuk ทะเบียนเลขที่ ว-204-ว-0058

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

Technical Management Nanthawadee Somboon, Specialist 2, ทะเบียนเลขที่ ว-204-ว-0010
Approved by Kanokkorn Anek, Assistant General Manager, ทะเบียนเลขที่ ว-204-ฅ-0004

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

Analysis / Test Report

TESTING No.0009

Lot ID: 2598684
Date Received : Nov 11, 2025
Date Reported : Nov 14, 2025
Report Number : 3435151-1

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name :
Project Location: WHA SIL

Page 1 of 1

Sample Number	2598684-1
Sampled Date	Nov 11, 2025 1:20 PM
Sample Description	Group 1 Wastewater WW-Plant
Location	WHA SIL : WW-EF : บ่อ Chorine Contact Tank
Date Analysis Commenced	Nov 12, 2025
Condition of Sample	Contained in two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property	Yellow, odourless, no solid, and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
COD	mg/L	-	25	<25	≤120	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
pH at 25 degree C		-	-	7.8	5.5-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	<5	≤50	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

Guideline : Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017).
Sampling By : Teerawat Puangsuk ทะเบียนเลขที่ ว-204-ว-0058

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

Technical Management — Nanthawadee Somboon, Specialist 2, ทะเบียนเลขที่ ว-204-ว-0010

Approved by — Kanokkorn Anek, Assistant General Manager, ทะเบียนเลขที่ ว-204-อ-0004

Analysis / Test Report

TESTING No.0009

Lot ID: 2598685
Date Received : Nov 18, 2025
Date Reported : Nov 22, 2025
Report Number : 3435152-1

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name :
Project Location: WHA SIL

Page 1 of 1

Sample Number	2598685-1
Sampled Date	Nov 18, 2025 9:55 AM
Sample Description	Group 1 Wastewater WW-Plant
Location	WHA SIL : WW-EF : บ่อ Chorine Contact Tank
Date Analysis Commenced	Nov 19, 2025
Condition of Sample	Contained in two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property	Yellow, some odour, solid and no turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
COD	mg/L	-	25	34	≤120	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
pH at 25 degree C		-	-	7.6	5.5-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	9	≤50	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

Guideline : Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017).
Sampling By : Panupong Sanan ทะเบียนเลขที่ ว-204-ว-0204

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

Technical Management — Suwimon Charuangsut, Scientist (3), ทะเบียนเลขที่ ว-204-ว-0018

Approved by — Kanokkorn Anek, Assistant General Manager, ทะเบียนเลขที่ ว-204-อ-0004

Analysis / Test Report

TESTING No.0009

Lot ID: 2598686
Date Received : Nov 25, 2025
Date Reported : Nov 29, 2025
Report Number : 3435154-1

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name :
Project Location: WHA SIL

Page 1 of 1

Sample Number	2598686-1
Sampled Date	Nov 25, 2025 10:25 AM
Sample Description	Group 1 Wastewater WW-Plant
Location	WHA SIL : WW-EF : บ่อ Chorine Contact Tank
Date Analysis Commenced	Nov 26, 2025
Condition of Sample	Contained in two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property	Yellow, some odour, no solid and no turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
COD	mg/L	-	25	29	≤120	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
pH at 25 degree C		-	-	7.6	5.5-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	<5	≤50	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

Guideline : Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017).
Sampling By : Chutadet Warin ทะเบียนเลขที่ ว-204-ว-0029

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

Technical Management — Suwimon Charuangsut, Scientist (3), ทะเบียนเลขที่ ว-204-ว-0018

Approved by — Kanokkorn Anek, Assistant General Manager, ทะเบียนเลขที่ ว-204-อ-0004

Analysis / Test Report

TESTING No.0009

Lot ID: 25107093
Date Received : Dec 02, 2025
Date Reported : Dec 12, 2025
Report Number : 3456211-1

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name :
Project Location: WHA SIL

Page 1 of 7

Sample Number	25107093-1
Sampled Date	Dec 02, 2025 11:45 AM
Sample Description	Group 1 Wastewater WW-Plant
Location	WHA SIL : WW-EF : บ่อ Chorine Contact Tank
Date Analysis Commenced	Dec 03, 2025
Condition of Sample	Contained in ten plastic bottles, three amber glass bottles and two glass vials, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property	Yellow, some odour, solid, and no turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Arsenic	mg/L	0.0003	0.0005	0.002	≤0.25	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Barium	mg/L	0.0003	0.0005	0.03	≤1.0	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	≤0.03	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	0.002	≤2.0	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	≤0.25	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	0.0007	≤0.2	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	0.02	≤5.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok

Technical Management — Siriluk Bunnak, Section Head, ทะเบียนเลขที่ ว-204-ว-0013

Approved by — Kanokkorn Anek, Assistant General Manager, ทะเบียนเลขที่ ว-204-อ-0004

Analysis / Test Report

TESTING No.0009

Lot ID: 25107093
Date Received : Dec 02, 2025
Date Reported : Dec 12, 2025
Report Number : 3456211-1

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name :
Project Location: WHA SIL

Page 2 of 7

Sample Number	25107093-1
Sampled Date	Dec 02, 2025 11:45 AM
Sample Description	Group 1 Wastewater WW-Plant
Location	WHA SIL : WW-EF : บ่อ Chorine Contact Tank
Date Analysis Commenced	Dec 03, 2025
Condition of Sample	Contained in ten plastic bottles, three amber glass bottles and two glass vials, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property	Yellow, some odour, solid, and no turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Mercury *	mg/L	0.0001	0.0005	Not Detected	≤0.005	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3112	Bangkok
Nickel	mg/L	0.0003	0.0005	0.02	≤1.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Selenium	mg/L	0.0003	0.0005	<0.0005	≤0.02	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Trivalent Chromium *	mg/L	-	0.01	<0.01	≤0.75	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Zinc	mg/L	0.003	0.005	0.03	≤5.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Pesticides - Organochlorine Group							
2,4-DDD *	ug/L	0.01	0.02	Not Detected	Not Detected	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 6630 D, part 6410 B	Bangkok
2,4-DDE *	ug/L	0.01	0.02	Not Detected	Not Detected	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 6630 D, part 6410 B	Bangkok

Technical Management — Siriluk Bunnak, Section Head, ทะเบียนเลขที่ ว-204-ว-0013

Approved by — Kanokkorn Anek, Assistant General Manager, ทะเบียนเลขที่ ว-204-อ-0004

Analysis / Test Report

TESTING No.0009

Lot ID: 25107093
Date Received : Dec 02, 2025
Date Reported : Dec 12, 2025
Report Number : 3456211-1

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name :
Project Location: WHA SIL

Page 3 of 7

Sample Number	25107093-1
Sampled Date	Dec 02, 2025 11:45 AM
Sample Description	Group 1 Wastewater WW-Plant
Location	WHA SIL : WW-EF : บ่อ Chorine Contact Tank
Date Analysis Commenced	Dec 03, 2025
Condition of Sample	Contained in ten plastic bottles, three amber glass bottles and two glass vials, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property	Yellow, some odour, solid, and no turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Pesticides - Organochlorine Group							
2,4-DDT *	ug/L	0.01	0.02	Not Detected	Not Detected	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 6630 D, part 6410 B	Bangkok
4,4-DDD *	ug/L	0.01	0.02	Not Detected	Not Detected	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 6630 D, part 6410 B	Bangkok
4,4-DDE *	ug/L	0.01	0.02	Not Detected	Not Detected	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 6630 D, part 6410 B	Bangkok
4,4-DDT *	ug/L	0.01	0.02	Not Detected	Not Detected	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 6630 D, part 6410 B	Bangkok
Aldrin *	ug/L	0.01	0.02	Not Detected	Not Detected	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 6630 D, part 6410 B	Bangkok
alpha-BHC *	ug/L	0.01	0.02	Not Detected	Not Detected	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 6630 D, part 6410 B	Bangkok
beta-BHC *	ug/L	0.01	0.02	Not Detected	Not Detected	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 6630 D, part 6410 B	Bangkok

Technical Management — Siriluk Bunnak, Section Head, ทะเบียนเลขที่ ว-204-ว-0013

Approved by — Kanokkorn Anek, Assistant General Manager, ทะเบียนเลขที่ ว-204-อ-0004

Analysis / Test Report

TESTING No.0009

Lot ID: 25107093
Date Received : Dec 02, 2025
Date Reported : Dec 12, 2025
Report Number : 3456211-1

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name :
Project Location: WHA SIL

Page 4 of 7

Sample Number	25107093-1
Sampled Date	Dec 02, 2025 11:45 AM
Sample Description	Group 1 Wastewater WW-Plant
Location	WHA SIL : WW-EF : บ่อ Chorine Contact Tank
Date Analysis Commenced	Dec 03, 2025
Condition of Sample	Contained in ten plastic bottles, three amber glass bottles and two glass vials, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property	Yellow, some odour, solid, and no turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Pesticides - Organochlorine Group							
Chlordane *	ug/L	0.02	0.04	Not Detected	Not Detected	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 6630 D, part 6410 B	Bangkok
delta-BHC *	ug/L	0.01	0.02	Not Detected	Not Detected	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 6630 D, part 6410 B	Bangkok
Dieldrin *	ug/L	0.01	0.02	Not Detected	Not Detected	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 6630 D, part 6410 B	Bangkok
Endosulfan I *	ug/L	0.01	0.02	Not Detected	Not Detected	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 6630 D, part 6410 B	Bangkok
Endosulfan II *	ug/L	0.01	0.02	Not Detected	Not Detected	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 6630 D, part 6410 B	Bangkok
Endrin *	ug/L	0.01	0.02	Not Detected	Not Detected	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 6630 D, part 6410 B	Bangkok
Heptachlor *	ug/L	0.01	0.02	Not Detected	Not Detected	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 6630 D, part 6410 B	Bangkok

Technical Management — Siriluk Bunnak, Section Head, ทะเบียนเลขที่ ว-204-ว-0013

Approved by — Kanokkorn Anek, Assistant General Manager, ทะเบียนเลขที่ ว-204-อ-0004

Analysis / Test Report

TESTING No.0009

Lot ID: 25107093
Date Received : Dec 02, 2025
Date Reported : Dec 12, 2025
Report Number : 3456211-1

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name :
Project Location: WHA SIL

Page 5 of 7

Sample Number	25107093-1
Sampled Date	Dec 02, 2025 11:45 AM
Sample Description	Group 1 Wastewater WW-Plant
Location	WHA SIL : WW-EF : บ่อ Chorine Contact Tank
Date Analysis Commenced	Dec 03, 2025
Condition of Sample	Contained in ten plastic bottles, three amber glass bottles and two glass vials, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property	Yellow, some odour, solid, and no turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Pesticides - Organochlorine Group							
Heptachlor-Epoxide *	ug/L	0.01	0.02	Not Detected	Not Detected	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 6630 D, part 6410 B	Bangkok
Lindane (gamma-BHC) *	ug/L	0.01	0.02	Not Detected	Not Detected	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 6630 D, part 6410 B	Bangkok
Methoxychlor *	ug/L	0.01	0.02	Not Detected	Not Detected	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 6630 D, part 6410 B	Bangkok
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2.0	<2.0	≤20	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Bangkok
COD	mg/L	-	25	28	≤120	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
Color (at Original pH)	ADMI	-	5	13	≤300	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2120 F	Bangkok
Color (at pH 7.0)	ADMI	-	5	15	≤300	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2120 F	Bangkok

Technical Management — Siriluk Bunnak, Section Head, ทะเบียนเลขที่ ว-204-ว-0013

Approved by — Kanokkorn Anek, Assistant General Manager, ทะเบียนเลขที่ ว-204-อ-0004

Analysis / Test Report

TESTING No.0009

Lot ID: 25107093
Date Received : Dec 02, 2025
Date Reported : Dec 12, 2025
Report Number : 3456211-1

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name :
Project Location: WHA SIL

Page 6 of 7

Sample Number	25107093-1
Sampled Date	Dec 02, 2025 11:45 AM
Sample Description	Group 1 Wastewater WW-Plant
Location	WHA SIL : WW-EF : บ่อ Chorine Contact Tank
Date Analysis Commenced	Dec 03, 2025
Condition of Sample	Contained in ten plastic bottles, three amber glass bottles and two glass vials, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property	Yellow, some odour, solid, and no turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Cyanide as CN	mg/L	0.002	0.005	Not Detected	≤0.2	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - CN (C, E)	Bangkok
Formaldehyde	mg/L	0.03	0.1	Not Detected	≤1.0	Wastewater analysis manual, Environmental Engineering Association of Thailand, 4th ed., 2004	Bangkok
Oil & Grease	mg/L	-	3	<3	≤5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Bangkok
pH at 25 degree C		-	-	7.4	5.5-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Phenol	mg/L	0.005	0.01	Not Detected	≤1.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5530 D	Bangkok
Residual Free Chlorine *	mg/L	-	0.1	<0.1	≤1.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-Cl (F)	Bangkok
Sulfide *	mg/L	-	0.5	<0.5	≤1.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-S2 (C, F)	Bangkok
Temperature *	Degree C	-	-	28.8	≤40	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Bangkok

Technical Management — Siriluk Bunnak, Section Head, ทะเบียนเลขที่ ว-204-ว-0013

Approved by — Kanokkorn Anek, Assistant General Manager, ทะเบียนเลขที่ ว-204-อ-0004

Analysis / Test Report

TESTING No.0009

Lot ID: 25107093
Date Received : Dec 02, 2025
Date Reported : Dec 12, 2025
Report Number : 3456211-1

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name :
Project Location : WHA SIL

Sample Number	25107093-1
Sampled Date	Dec 02, 2025 11:45 AM
Sample Description	Group 1 Wastewater WW-Plant
Location	WHA SIL : WW-EF : บ่อ Chlorine Contact Tank
Date Analysis Commenced	Dec 03, 2025
Condition of Sample	Contained in ten plastic bottles, three amber glass bottles and two glass vials, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property	Yellow, some odour, solid, and no turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Total Dissolved solids Dried at 180 degree C	mg/L	-	5	872	≤3000	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Bangkok
Total Kjeldahl Nitrogen as N *	mg/L	0.15	1.0	2.4	≤100	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500-Norg (C)	Bangkok
Total Phosphorus as P *	mg/L	0.2	0.5	2.3	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500-P (B, E)	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	<5	≤50	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

Guideline : Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017).
Sampling By : Teerawat Puangsuk ทะเบียนเลขที่ ว-204-ว-0058

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

Technical Management: Siriluk P. — Siriluk Bunnak, Section Head, ทะเบียนเลขที่ ว-204-ว-0013
Approved by: Kanokkorn Anek, Assistant General Manager, ทะเบียนเลขที่ ว-204-ผ-0004

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Analysis / Test Report

TESTING No.0009

Lot ID: 25107093
Date Received : Dec 02, 2025
Date Reported : Dec 12, 2025
Report Number : 3456211-2

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name :
Project Location : WHA SIL

Sample Number	25107093-1
Sampled Date	Dec 02, 2025 11:45 AM
Sample Description	Group 1 Wastewater WW-Plant
Location	WHA SIL : WW-EF : บ่อ Chlorine Contact Tank
Date Analysis Commenced	Dec 03, 2025
Condition of Sample	Contained in ten plastic bottles, three amber glass bottles and two glass vials, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property	Yellow, some odour, solid, and no turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Iron	mg/L	0.003	0.005	0.11	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Silver	mg/L	0.0003	0.0005	0.0008	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Microbiological Testing							
Total Coliform	MPN/100mL	-	-	79000.0	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 9221 B	Bangkok
Pesticides - Organochlorine Group							
alpha-Chlordane *	ug/L	0.01	0.02	Not Detected	Not Detected	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 6630 D, part 6410 B	Bangkok
gamma-Chlordane *	ug/L	0.01	0.02	Not Detected	Not Detected	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 6630 D, part 6410 B	Bangkok
Hexachlorobenzene *	ug/L	0.01	0.02	Not Detected	Not Detected	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 6630 D, part 6410 B	Bangkok
Mirex *	ug/L	0.01	0.02	Not Detected	Not Detected	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 6630 D, part 6410 B	Bangkok
Water Testing							

Approved by: Sithichok T. — Sithichok Thongnguen, Scientist (3)

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Analysis / Test Report

TESTING No.0009

Lot ID: 25107093
Date Received : Dec 02, 2025
Date Reported : Dec 12, 2025
Report Number : 3456211-2

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name :
Project Location : WHA SIL

Sample Number	25107093-1
Sampled Date	Dec 02, 2025 11:45 AM
Sample Description	Group 1 Wastewater WW-Plant
Location	WHA SIL : WW-EF : บ่อ Chlorine Contact Tank
Date Analysis Commenced	Dec 03, 2025
Condition of Sample	Contained in ten plastic bottles, three amber glass bottles and two glass vials, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property	Yellow, some odour, solid, and no turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Ammonia Nitrogen *	mg/L	-	0.06	1.11	No Standard	Based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500-NH3 (B, F)	Bangkok
Conductivity at 25 degree C *	micromhos/cm	-	0.5	1586	No Standard	Based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2510 B	Bangkok
Dissolved Oxygen (on site) *	mg/L	-	0.1	2.3	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500-O (G)	Bangkok
Nitrate as N *	mg/L	0.06	0.2	7.47	No Standard	Based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500-NO3 E	Bangkok
Nitrite as N *	mg/L	0.06	0.2	0.556	No Standard	Based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500-NO2 B	Bangkok

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

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

Approved by: Sithichok T. — Sithichok Thongnguen, Scientist (3)

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Analysis / Test Report

TESTING No.0009

Lot ID: 25107094
Date Received : Dec 09, 2025
Date Reported : Dec 15, 2025
Report Number : 3456226-1

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name :
Project Location : WHA SIL

Sample Number	25107094-1
Sampled Date	Dec 09, 2025 12:05 PM
Sample Description	Group 1 Wastewater WW-Plant
Location	WHA SIL : WW-EF : บ่อ Chlorine Contact Tank
Date Analysis Commenced	Dec 11, 2025
Condition of Sample	Contained in two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property	Yellow, some odour, solid, and no turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
COD	mg/L	-	25	35	≤120	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
pH at 25 degree C		-	-	7.4	5.5-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	18	≤50	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

Guideline : Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017).
Sampling By : Panupong Saenori ทะเบียนเลขที่ ว-204-ว-0204

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

Technical Management: Suwimon C. — Suwimon Chaisangwat, Scientist (3), ทะเบียนเลขที่ ว-204-ว-0018
Approved by: Kanokkorn Anek, Assistant General Manager, ทะเบียนเลขที่ ว-204-ผ-0004

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Analysis / Test Report

TESTING No.0009

Lot ID: 25107095
Date Received : Dec 16, 2025
Date Reported : Dec 22, 2025
Report Number : 3456232-1

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name :
Project Location : WHA SIL

Sample Number	25107095-1
Sampled Date	Dec 16, 2025 11:45 AM
Sample Description	Group 1 Wastewater WW-Plant
Location	WHA SIL : WW-EF : บ่อ Chlorine Contact Tank
Date Analysis Commenced	Dec 17, 2025
Condition of Sample	Contained in two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property	Yellow, some odour, solid and no turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
COD	mg/L	-	25	<25	≤120	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
pH at 25 degree C		-	-	7.5	5.5-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	<5	≤50	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

Guideline : Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017).
Sampling By : Panupong Saenori ทะเบียนเลขที่ ว-204-ว-0204

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

Technical Management: Siriluk P. — Siriluk Bunnak, Section Head, ทะเบียนเลขที่ ว-204-ว-0013
Approved by: Kanokkorn Anek, Assistant General Manager, ทะเบียนเลขที่ ว-204-ผ-0004

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Analysis / Test Report

TESTING No.0009

Lot ID: 25107096
Date Received : Dec 23, 2025
Date Reported : Dec 26, 2025
Report Number : 3456235-1

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name :
Project Location : WHA SIL

Sample Number	25107096-1
Sampled Date	Dec 23, 2025
Sample Description	Group 1 Wastewater WW-Plant
Location	WHA SIL : WW-EF : บ่อ Chlorine Contact Tank
Date Analysis Commenced	Dec 24, 2025
Condition of Sample	Contained in two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property	Yellow, odourless, no solid, and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
COD	mg/L	-	25	39	≤120	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
pH at 25 degree C		-	-	7.5	5.5-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	<5	≤50	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

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

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

Technical Management: Narin Saeeng, Supervisor, ทะเบียนเลขที่ ว-204-ว-0009
Approved by: Kanokkorn Anek, Assistant General Manager, ทะเบียนเลขที่ ว-204-ผ-0004

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Analysis / Test Report

TESTING No.0009

Lot ID: 25107097
Date Received : Dec 29, 2025
Date Reported : Jan 06, 2026
Report Number : 3456238-1

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name :
Project Location : WHA SIL

Sample Number	25107097-1
Sampled Date	Dec 29, 2025 11:45 AM
Sample Description	Group 1 Wastewater WW-Plant
Location	WHA SIL : WW-EF : บ่อ Chlorine Contact Tank
Date Analysis Commenced	Dec 30, 2025
Condition of Sample	Contained in two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property	Yellow, odourless, no solid, and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
COD	mg/L	-	25	26	≤120	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
pH at 25 degree C		-	-	7.5	5.5-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	<5	≤50	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

Guideline : Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017).
Sampling By : Panupong Saenori ทะเบียนเลขที่ ว-204-ว-0204

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

Technical Management: Narin Saeeng, Supervisor, ทะเบียนเลขที่ ว-204-ว-0009
Approved by: Kanokkorn Anek, Assistant General Manager, ทะเบียนเลขที่ ว-204-ผ-0004

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Analysis / Test Report

TESTING No.0009

Lot ID: 2559959
Date Received : Jul 01, 2025
Date Reported : Jul 08, 2025
Report Number : 3344158-1

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name :
Project Location : WHA SIL

Sample Number	2559959-1
Sampled Date	Jul 01, 2025 11:30 AM
Sample Description	Group 1 Wastewater WW-Plant
Location	WHA SIL : WW-IN : บ่อ Equalization Tank
Date Analysis Commenced	Jul 02, 2025
Condition of Sample	Contained in one amber glass bottle and seven plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property	Yellow, a lot of odour, solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2.0	74.4	≤500	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Bangkok
COD	mg/L	-	25	204	≤750	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
Formaldehyde	mg/L	0.03	0.1	Not Detected	≤1	Wastewater analysis manual, Environmental Engineering Association of Thailand, 4th ed., 2004	Bangkok
Oil & Grease	mg/L	-	3	4	≤10	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Bangkok
pH at 25 degree C		-	-	7.5	5.5-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Phenol	mg/L	0.0005	0.001	<0.001	≤1	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5530 B, D	Bangkok
Sulfide *	mg/L	-	0.5	<0.5	≤1	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500-S2 (C, F)	Bangkok
Temperature *	Degree C	-	-	32.9	≤45	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Bangkok

Technical Management: Siriluk P. — Siriluk Bunnak, Section Head, ทะเบียนเลขที่ ว-204-ว-0013
Approved by: Kanokkorn Anek, Assistant General Manager, ทะเบียนเลขที่ ว-204-ผ-0004

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Analysis / Test Report

TESTING No.0009

Lot ID: 2559959
Date Received : Jul 01, 2025
Date Reported : Jul 08, 2025
Report Number : 3344158-1

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name :
Project Location : WHA SIL

Sample Number	2559959-1
Sampled Date	Jul 01, 2025 11:30 AM
Sample Description	Group 1 Wastewater WW-Plant
Location	WHA SIL : WW-IN : บ่อ Equalization Tank
Date Analysis Commenced	Jul 02, 2025
Condition of Sample	Contained in one amber glass bottle and seven plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property	Yellow, a lot of odour, solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Total Dissolved solids Dried at 180 degree C	mg/L	-	5	968	≤3000	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Bangkok
Total Kjeldahl Nitrogen as N *	mg/L	0.15	1.0	28.8	≤100	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500-Norg (C)	Bangkok
Total Phosphorus as P *	mg/L	0.2	0.5	5.5	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500-P (B, E)	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	127	≤200	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

Guideline : Standard of WHA Saraburi Industrial Land, Maximum levels for wastewater discharging to central wastewater treatment plant.
Sampling By : Teerawat Puangsuk ทะเบียนเลขที่ ว-204-ว-0058

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

Technical Management: Siriluk P. — Siriluk Bunnak, Section Head, ทะเบียนเลขที่ ว-204-ว-0013
Approved by: Kanokkorn Anek, Assistant General Manager, ทะเบียนเลขที่ ว-204-ผ-0004

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Analysis / Test Report

TESTING No.0009

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name :
Project Location: WHA SIL

Lot ID: 2559959
Date Received : Jul 01, 2025
Date Reported : Jul 08, 2025
Report Number : 3344158-2

Page 1 of 2

Sample Number	2559959-1
Sampled Date	Jul 01, 2025 11:30 AM
Sample Description	Group 1 Wastewater WW-Plant
Location	WHA SIL : WW-IN : บ่อ Equalization Tank
Date Analysis Commenced	Jul 02, 2025
Condition of Sample	Contained in one amber glass bottle and seven plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property	Yellow, a lot of odour, solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Iron	mg/L	0.003	0.005	0.82	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3125 B, 3030 F	Bangkok
Microbiological Testing							
Total Coliform	MPN/100mL	-	-	24000000.0	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 9221 B	Bangkok
Water Testing							
Ammonia Nitrogen *	mg/L	-	0.06	17.4	No Standard	Based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500-NH3 (B, F)	Bangkok
Conductivity at 25 degree C *	micromhos/cm	-	0.5	1729	No Standard	Based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2510 B	Bangkok
Dissolved Oxygen (on site) *	mg/L	-	0.1	0.2	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500-O (G)	Bangkok
Nitrate as N *	mg/L	0.06	0.2	Not Detected	No Standard	Based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500-NO3 E	Bangkok
Nitrite as N *	mg/L	0.06	0.2	Not Detected	No Standard	Based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500-NO2 B	Bangkok

Guideline : Standard of WHA Saraburi Industrial Land, Maximum levels for wastewater discharging to central wastewater treatment plant.
Sampling By : Teerawat Puangsuk
Remark :

Approved by Savitree N
Savitree Noisangiam
Manager

Analysis / Test Report

TESTING No.0009

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name :
Project Location: WHA SIL

Lot ID: 2559959
Date Received : Jul 01, 2025
Date Reported : Jul 08, 2025
Report Number : 3344158-2

Page 2 of 2

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

Approved by Savitree N
Savitree Noisangiam
Manager

Analysis / Test Report

TESTING No.0009

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name :
Project Location : WHA SIL

Lot ID: 2559960
Date Received : Jul 08, 2025
Date Reported : Jul 14, 2025
Report Number : 3344183-1

Page 1 of 1

Sample Number	2559960-1
Sampled Date	Jul 08, 2025 11:40 AM
Sample Description	Group 1 Wastewater WW-Plant
Location	WHA SIL : WW-IN : บ่อ Equalization Tank
Date Analysis Commenced	Jul 08, 2025
Condition of Sample	Contained in two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property	Yellow, a lot of odour, solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
COD	mg/L	-	25	206	≤750	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
pH at 25 degree C		-	-	7.5	5.5-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	144	≤200	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

Guideline : Standard of WHA Saraburi Industrial Land, Maximum levels for wastewater discharging to central wastewater treatment plant.
Sampling By : Panupong Sanet ทะเบียนเลขที่ ว-204-ว-0204
Remark :
- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.
- Sampling is not included in scope of accreditation ISO/IEC 17025

Technical Management: Siriluk P.
Siriluk Bunnak
Section Head
ทะเบียนเลขที่ ว-204-ว-0013

Approved by Kanokkorn Anek
Kanokkorn Anek
Assistant General Manager
ทะเบียนเลขที่ ว-204-ค-0004

Analysis / Test Report

TESTING No.0009

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name :
Project Location: WHA SIL

Lot ID: 2559961
Date Received : Jul 15, 2025
Date Reported : Jul 19, 2025
Report Number : 3344180-1

Page 1 of 1

Sample Number	2559961-1
Sampled Date	Jul 15, 2025 11:35 AM
Sample Description	Group 1 Wastewater WW-Plant
Location	WHA SIL : WW-IN : บ่อ Equalization Tank
Date Analysis Commenced	Jul 16, 2025
Condition of Sample	Contained in two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property	Yellow, a lot of odour, solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
COD	mg/L	-	25	157	≤750	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
pH at 25 degree C		-	-	7.5	5.5-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	56	≤200	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

Guideline : Standard of WHA Saraburi Industrial Land, Maximum levels for wastewater discharging to central wastewater treatment plant.
Sampling By : Teerawat Puangsuk ทะเบียนเลขที่ ว-204-ว-0058
Remark :
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- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
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- Sampling is not included in scope of accreditation ISO/IEC 17025

Technical Management: Suwimon C.
Suwimon Chairungsut
Scientist (3)
ทะเบียนเลขที่ ว-204-ว-0018

Approved by Kanokkorn Anek
Kanokkorn Anek
Assistant General Manager
ทะเบียนเลขที่ ว-204-ค-0004

Analysis / Test Report

TESTING No.0009

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name :
Project Location: WHA SIL

Lot ID: 2559962
Date Received : Jul 22, 2025
Date Reported : Jul 26, 2025
Report Number : 3344194-1

Page 1 of 1

Sample Number	2559962-1
Sampled Date	Jul 22, 2025 9:40 AM
Sample Description	Group 1 Wastewater WW-Plant
Location	WHA SIL : WW-IN : บ่อ Equalization Tank
Date Analysis Commenced	Jul 23, 2025
Condition of Sample	Contained in two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property	Yellow, a lot of odour, solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
COD	mg/L	-	25	195	≤750	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
pH at 25 degree C		-	-	7.2	5.5-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	62	≤200	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

Guideline : Standard of WHA Saraburi Industrial Land, Maximum levels for wastewater discharging to central wastewater treatment plant.
Sampling By : Panupong Sanet ทะเบียนเลขที่ ว-204-ว-0204
Remark :
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- Sampling is not included in scope of accreditation ISO/IEC 17025

Technical Management: Suwimon C.
Suwimon Chairungsut
Scientist (3)
ทะเบียนเลขที่ ว-204-ว-0018

Approved by Kanokkorn Anek
Kanokkorn Anek
Assistant General Manager
ทะเบียนเลขที่ ว-204-ค-0004

Analysis / Test Report

TESTING No.0009

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name :
Project Location: WHA SIL

Lot ID: 2559963
Date Received : Jul 29, 2025
Date Reported : Aug 01, 2025
Report Number : 3344206-1

Page 1 of 1

Sample Number	2559963-1
Sampled Date	Jul 29, 2025 1:00 PM
Sample Description	Group 1 Wastewater WW-Plant
Location	WHA SIL : WW-IN : บ่อ Equalization Tank
Date Analysis Commenced	Jul 30, 2025
Condition of Sample	Contained in two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property	Yellow, a lot of odour, solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
COD	mg/L	-	25	131	≤750	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
pH at 25 degree C		-	-	7.5	5.5-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	53	≤200	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

Guideline : Standard of WHA Saraburi Industrial Land, Maximum levels for wastewater discharging to central wastewater treatment plant.
Sampling By : Panupong Sanet ทะเบียนเลขที่ ว-204-ว-0204
Remark :
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- Sampling is not included in scope of accreditation ISO/IEC 17025

Technical Management: Nant Somb
Nanthawadee Somboon
Specialist 2
ทะเบียนเลขที่ ว-204-ว-0010

Approved by Kanokkorn Anek
Kanokkorn Anek
Assistant General Manager
ทะเบียนเลขที่ ว-204-ค-0004

Analysis / Test Report

TESTING No.0009

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name :
Project Location: WHA SIL

Lot ID: 2569665
Date Received : Aug 05, 2025
Date Reported : Aug 18, 2025
Report Number : 3360078-1 Rev. No.1

Page 1 of 2

Sample Number	2569665-1
Sampled Date	Aug 05, 2025 9:50 AM
Sample Description	Group 1 Wastewater WW-Plant
Location	WHA SIL : WW-IN : บ่อ Equalization Tank
Date Analysis Commenced	Aug 06, 2025
Condition of Sample	Contained in one amber glass bottle and seven plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property	Yellow, a lot of odour, solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2.0	49.2	≤500	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Bangkok
COD	mg/L	-	25	172	≤750	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
Formaldehyde	mg/L	0.03	0.1	Not Detected	≤1	Wastewater analysis manual, Environmental Engineering Association of Thailand, 4th ed., 2004	Bangkok
Oil & Grease	mg/L	-	3	4	≤10	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Bangkok
pH at 25 degree C		-	-	7.3	5.5-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Phenol	mg/L	0.0005	0.001	Not Detected	≤1	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5530 B, D	Bangkok
Sulfide *	mg/L	-	0.5	<0.5	≤1	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500-S2 (C, F)	Bangkok
Temperature *	Degree C	-	-	32.6	≤45	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Bangkok

Technical Management: Suwimon C.
Suwimon Chairungsut
Scientist (3)
ทะเบียนเลขที่ ว-204-ว-0018

Approved by Kanokkorn Anek
Kanokkorn Anek
Assistant General Manager
ทะเบียนเลขที่ ว-204-ค-0004

Analysis / Test Report

TESTING No.0009

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name :
Project Location: WHA SIL

Lot ID: 2569665
Date Received : Aug 05, 2025
Date Reported : Aug 18, 2025
Report Number : 3360078-1 Rev. No.1

Page 2 of 2

Sample Number	2569665-1
Sampled Date	Aug 05, 2025 9:50 AM
Sample Description	Group 1 Wastewater WW-Plant
Location	WHA SIL : WW-IN : บ่อ Equalization Tank
Date Analysis Commenced	Aug 06, 2025
Condition of Sample	Contained in one amber glass bottle and seven plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property	Yellow, a lot of odour, solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Total Dissolved solids Dried at 180 degree C	mg/L	-	5	1084	≤3000	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Bangkok
Total Kjeldahl Nitrogen as N *	mg/L	0.15	1.0	26.8	≤100	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500-Norg (C)	Bangkok
Total Phosphorus as P *	mg/L	0.2	0.5	4.4	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500-P (B, E)	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	70	≤200	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

Guideline : Standard of WHA Saraburi Industrial Land, Maximum levels for wastewater discharging to central wastewater treatment plant.
Note : This Analysis test report is reissued to supersede report No.3360078-1, Date Reported : Aug 13, 2025 due to revise guideline/specification
Sampling By : Panupong Sanet ทะเบียนเลขที่ ว-204-ว-0204
Remark :
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- Sampling is not included in scope of accreditation ISO/IEC 17025

Technical Management: Suwimon C.
Suwimon Chairungsut
Scientist (3)
ทะเบียนเลขที่ ว-204-ว-0018

Approved by Kanokkorn Anek
Kanokkorn Anek
Assistant General Manager
ทะเบียนเลขที่ ว-204-ค-0004

Analysis / Test Report

TESTING No.0009

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name :
Project Location: WHA SIL

Lot ID: 2569665
Date Received : Aug 05, 2025
Date Reported : Aug 18, 2025
Report Number : 3360078-2 Rev. No.1

Page 1 of 2

Sample Number	2569665-1
Sampled Date	Aug 05, 2025 9:50 AM
Sample Description	Group 1 Wastewater WW-Plant
Location	WHA SIL : WW-IN : บ่อ Equalization Tank
Date Analysis Commenced	Aug 06, 2025
Condition of Sample	Contained in one amber glass bottle and seven plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property	Yellow, a lot of odour, solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Iron	mg/L	0.003	0.005	0.42	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3125 B, 3030 F	Bangkok
Microbiological Testing							
Total Coliform	MPN/100mL	-	-	2400000.0	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 9221 B	Bangkok
Water Testing							
Ammonia Nitrogen *	mg/L	-	0.06	16.6	No Standard	Based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500-NH3 (B, F)	Bangkok
Conductivity at 25 degree C *	micromhos/cm	-	0.5	1795	No Standard	Based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2510 B	Bangkok
Dissolved Oxygen (on site) *	mg/L	-	0.1	<0.1	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500-O (G)	Bangkok
Nitrate as N *	mg/L	0.06	0.2	Not Detected	No Standard	Based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500-NO3 E	Bangkok
Nitrite as N *	mg/L	0.06	0.2	Not Detected	No Standard	Based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500-NO2 B	Bangkok

Guideline : Standard of WHA Saraburi Industrial Land, Maximum levels for wastewater discharging to central wastewater treatment plant.
Note : This Analysis test report is reissued to supersede report No.3360078-2, Date Reported : Aug 13, 2025 due to revise guideline/specification

Approved by Savitree N
Savitree Noisangiam
Manager

Analysis / Test Report

TESTING No.0009

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name :
Project Location : WHA SIL

Lot ID: 2569665
Date Received : Aug 05, 2025
Date Reported : Aug 18, 2025
Report Number : 3366078-2 Rev. No.1

Sampling By : Panupong Sanet

Remark :
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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 Sawitree N
Sawitree Noisangiam
Manager

Analysis / Test Report

TESTING No.0009

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name :
Project Location : WHA SIL

Lot ID: 2569666
Date Received : Aug 13, 2025
Date Reported : Aug 18, 2025
Report Number : 3366098-1

Sample Number	2569666-1
Sampled Date	Aug 13, 2025 9:20 AM
Sample Description	Group 1 Wastewater WW-Plant
Location	WHA SIL : WW-IN : ยe Equalization Tank
Date Analysis Commenced	Aug 14, 2025
Condition of Sample	Contained in two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property	Yellow, a lot of odour, solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
COD	mg/L	-	25	97	≤750	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
pH at 25 degree C		-	-	7.6	5.5-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	41	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

Guideline : Standard of WHA Saraburi Industrial Land, Maximum levels for wastewater discharging to central wastewater treatment plant.
Sampling By : Panupong Sanet ทะเบียนเลขที่ ว-204-ว-0204

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

Technical Management Suwimon C
Suwimon Chairungsri
Scientist (3)
ทะเบียนเลขที่ ว-204-ว-0018

Approved by Kanokkorn Anek
Kanokkorn Anek
Assistant General Manager
ทะเบียนเลขที่ ว-204-ผ-0004

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Analysis / Test Report

TESTING No.0009

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name :
Project Location : WHA SIL

Lot ID: 2569667
Date Received : Aug 19, 2025
Date Reported : Aug 22, 2025
Report Number : 3366100-1

Sample Number	2569667-1
Sampled Date	Aug 19, 2025 10:20 AM
Sample Description	Group 1 Wastewater WW-Plant
Location	WHA SIL : WW-IN : ยe Equalization Tank
Date Analysis Commenced	Aug 20, 2025
Condition of Sample	Contained in two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property	Yellow, a lot of odour, solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
COD	mg/L	-	25	312	≤750	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
pH at 25 degree C		-	-	7.5	5.5-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	133	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

Guideline : Standard of WHA Saraburi Industrial Land, Maximum levels for wastewater discharging to central wastewater treatment plant.
Sampling By : Teerawat Puangsuk ทะเบียนเลขที่ ว-204-ว-0006

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

Technical Management Nant Somb
Nanthawadee Somboon
Specialist 2
ทะเบียนเลขที่ ว-204-ว-0010

Approved by Kanokkorn Anek
Kanokkorn Anek
Assistant General Manager
ทะเบียนเลขที่ ว-204-ผ-0004

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

Analysis / Test Report

TESTING No.0009

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name :
Project Location : WHA SIL

Lot ID: 2569668
Date Received : Aug 26, 2025
Date Reported : Aug 29, 2025
Report Number : 3366101-1

Sample Number	2569668-1
Sampled Date	Aug 26, 2025 2:10 PM
Sample Description	Group 1 Wastewater WW-Plant
Location	WHA SIL : WW-IN : ยe Equalization Tank
Date Analysis Commenced	Aug 27, 2025
Condition of Sample	Contained in two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property	Yellow, a lot of odour, solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
COD	mg/L	-	25	152	≤750	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
pH at 25 degree C		-	-	7.7	5.5-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	71	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

Guideline : Standard of WHA Saraburi Industrial Land, Maximum levels for wastewater discharging to central wastewater treatment plant.
Sampling By : Panupong Sanet ทะเบียนเลขที่ ว-204-ว-0204

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

Technical Management Siriluk P.
Siriluk Bumrak
Section Head
ทะเบียนเลขที่ ว-204-ว-0013

Approved by Kanokkorn Anek
Kanokkorn Anek
Assistant General Manager
ทะเบียนเลขที่ ว-204-ผ-0004

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

Analysis / Test Report

TESTING No.0009

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name :
Project Location : WHA SIL

Lot ID: 2579702
Date Received : Sep 02, 2025
Date Reported : Sep 09, 2025
Report Number : 3389524-1

Sample Number	2579702-1
Sampled Date	Sep 02, 2025 10:50 AM
Sample Description	Group 1 Wastewater WW-Plant
Location	WHA SIL : WW-IN : ยe Equalization Tank
Date Analysis Commenced	Sep 03, 2025
Condition of Sample	Contained in two glass vials, eight plastic bottles and one amber glass bottle, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property	Yellow, a lot of odour, solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Cadmium	mg/L	0.0003	0.0005	Not Detected	≤0.03	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	0.02	≤2	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	≤0.25	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	≤0.2	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	≤0.005	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3112	Bangkok
Nickel	mg/L	0.0003	0.0005	0.006	≤1	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Trivalent Chromium *	mg/L	-	0.01	<0.01	≤0.75	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok

Technical Management Sawitree N.
Sawitree Noisangiam
Manager
ทะเบียนเลขที่ ว-204-ว-0007

Approved by Kanokkorn Anek
Kanokkorn Anek
Assistant General Manager
ทะเบียนเลขที่ ว-204-ผ-0004

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

Analysis / Test Report

TESTING No.0009

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name :
Project Location : WHA SIL

Lot ID: 2579702
Date Received : Sep 02, 2025
Date Reported : Sep 09, 2025
Report Number : 3389524-1

Sample Number	2579702-1
Sampled Date	Sep 02, 2025 10:50 AM
Sample Description	Group 1 Wastewater WW-Plant
Location	WHA SIL : WW-IN : ยe Equalization Tank
Date Analysis Commenced	Sep 03, 2025
Condition of Sample	Contained in two glass vials, eight plastic bottles and one amber glass bottle, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property	Yellow, a lot of odour, solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Zinc	mg/L	0.003	0.005	0.18	≤5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2.0	91.5	≤500	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Bangkok
COD	mg/L	-	25	186	≤750	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
Formaldehyde	mg/L	0.03	0.1	0.3	≤1	Wastewater analysis manual, Environmental Engineering Association of Thailand, 4th ed., 2004	Bangkok
Oil & Grease	mg/L	-	3	3	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Bangkok
pH at 25 degree C		-	-	7.5	5.5-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Phenol	mg/L	0.0005	0.001	0.019	≤1	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5530 B, D	Bangkok
Sulfide *	mg/L	-	0.5	<0.5	≤1	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-S2 (C, F)	Bangkok

Technical Management Sawitree N.
Sawitree Noisangiam
Manager
ทะเบียนเลขที่ ว-204-ว-0007

Approved by Kanokkorn Anek
Kanokkorn Anek
Assistant General Manager
ทะเบียนเลขที่ ว-204-ผ-0004

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

Analysis / Test Report

TESTING No.0009

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name :
Project Location : WHA SIL

Lot ID: 2579702
Date Received : Sep 02, 2025
Date Reported : Sep 09, 2025
Report Number : 3389524-1

Sample Number	2579702-1
Sampled Date	Sep 02, 2025 10:50 AM
Sample Description	Group 1 Wastewater WW-Plant
Location	WHA SIL : WW-IN : ยe Equalization Tank
Date Analysis Commenced	Sep 03, 2025
Condition of Sample	Contained in two glass vials, eight plastic bottles and one amber glass bottle, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property	Yellow, a lot of odour, solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Temperature *	Degree C	-	-	33.5	≤45	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	768	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Bangkok
Total Kjeldahl Nitrogen as N *	mg/L	0.15	1.0	33.6	≤100	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-Norg (C)	Bangkok
Total Phosphorus as P *	mg/L	0.2	0.5	4.6	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-P (B, E)	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	54	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

Guideline : Standard of WHA Saraburi Industrial Land, Maximum levels for wastewater discharging to central wastewater treatment plant.
Sampling By : Panupong Sanet ทะเบียนเลขที่ ว-204-ว-0204

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

Technical Management Sawitree N.
Sawitree Noisangiam
Manager
ทะเบียนเลขที่ ว-204-ว-0007

Approved by Kanokkorn Anek
Kanokkorn Anek
Assistant General Manager
ทะเบียนเลขที่ ว-204-ผ-0004

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

Analysis / Test Report

TESTING No.0009

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name :
Project Location : WHA SIL

Lot ID: 2579702
Date Received : Sep 02, 2025
Date Reported : Sep 09, 2025
Report Number : 3389524-2

Sample Number	2579702-1
Sampled Date	Sep 02, 2025 10:50 AM
Sample Description	Group 1 Wastewater WW-Plant
Location	WHA SIL : WW-IN : ยe Equalization Tank
Date Analysis Commenced	Sep 03, 2025
Condition of Sample	Contained in two glass vials, eight plastic bottles and one amber glass bottle, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property	Yellow, a lot of odour, solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Iron	mg/L	0.003	0.005	0.49	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Microbiological Testing							
Total Coliform	MPN/100mL	-	-	3300000.0	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 9221 B	Bangkok
Water Testing							
Ammonia Nitrogen *	mg/L	-	0.06	22.0	No Standard	Based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-NH3 (B, F)	Bangkok
Conductivity at 25 degree C *	micromhos/cm	-	0.5	1502	No Standard	Based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2510 B	Bangkok
Dissolved Oxygen (on site) *	mg/L	-	0.1	<0.1	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-O (G)	Bangkok
Nitrate as N *	mg/L	0.06	0.2	Not Detected	No Standard	Based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-NO3 E	Bangkok
Nitrite as N *	mg/L	0.06	0.2	Not Detected	No Standard	Based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-NO2 B	Bangkok

Guideline : Standard of WHA Saraburi Industrial Land, Maximum levels for wastewater discharging to central wastewater treatment plant.
Sampling By : Panupong Sanet

Remark :

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

Analysis / Test Report

TESTING No.0009

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name :
Project Location : WHA SIL

Lot ID: 2579702
Date Received : Sep 02, 2025
Date Reported : Sep 09, 2025
Report Number : 3389524-2

- 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

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

Analysis / Test Report

TESTING
No.0009

Lot ID: 2579703
Date Received : Sep 09, 2025
Date Reported : Sep 12, 2025
Report Number : 3389559-1

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name :
Project Location : WHA SIL

Page 1 of 1

Sample Number	2579703-1
Sampled Date	Sep 09, 2025 12:30 PM
Sample Description	Group 1 Wastewater WW-Plant
Location	WHA SIL : WW-IN : บ่อ Equalization Tank
Date Analysis Commenced	Sep 10, 2025
Condition of Sample	Contained in two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property	Yellow, a lot of odour, solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
COD	mg/L	-	25	186	≤750	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
pH at 25 degree C		-	-	7.4	5.5-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	101	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

Guideline : Standard of WHA Saraburi Industrial Land, Maximum levels for wastewater discharging to central wastewater treatment plant.
Sampling By : Panupong Sanet ทะเบียนเลขที่ ว-204-ว-0204

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

Technical Management — Narin Saiseng, Supervisor, ทะเบียนเลขที่ ว-204-ว-0009
Approved by — Kanokkorn Anek, Assistant General Manager, ทะเบียนเลขที่ ว-204-ส-0004

Analysis / Test Report

TESTING
No.0009

Lot ID: 2579704
Date Received : Sep 17, 2025
Date Reported : Sep 22, 2025
Report Number : 3389565-1

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name :
Project Location : WHA SIL

Page 1 of 1

Sample Number	2579704-1
Sampled Date	Sep 17, 2025 10:20 AM
Sample Description	Group 1 Wastewater WW-Plant
Location	WHA SIL : WW-IN : บ่อ Equalization Tank
Date Analysis Commenced	Sep 18, 2025
Condition of Sample	Contained in two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property	Yellow, a lot of odour, solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
COD	mg/L	-	25	150	≤750	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
pH at 25 degree C		-	-	7.6	5.5-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	86	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

Guideline : Standard of WHA Saraburi Industrial Land, Maximum levels for wastewater discharging to central wastewater treatment plant.
Sampling By : Chawanthat Nakpanom ทะเบียนเลขที่ ว-204-ว-0087

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

Technical Management — Siriluk Bunnak, Section Head, ทะเบียนเลขที่ ว-204-ว-0013
Approved by — Kanokkorn Anek, Assistant General Manager, ทะเบียนเลขที่ ว-204-ส-0004

Analysis / Test Report

TESTING
No.0009

Lot ID: 2579705
Date Received : Sep 23, 2025
Date Reported : Sep 27, 2025
Report Number : 3389574-1

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name :
Project Location : WHA SIL

Page 1 of 1

Sample Number	2579705-1
Sampled Date	Sep 23, 2025 9:18 AM
Sample Description	Group 1 Wastewater WW-Plant
Location	WHA SIL : WW-IN : บ่อ Equalization Tank
Date Analysis Commenced	Sep 24, 2025
Condition of Sample	Contained in two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property	White, a lot of odour, solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
COD	mg/L	-	25	142	≤750	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
pH at 25 degree C		-	-	7.6	5.5-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	83	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

Guideline : Standard of WHA Saraburi Industrial Land, Maximum levels for wastewater discharging to central wastewater treatment plant.
Sampling By : Teerawat Puangsuk ทะเบียนเลขที่ ว-204-ว-0006

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

Technical Management — Suwimon Charuangwut, Scientist (3), ทะเบียนเลขที่ ว-204-ว-0018
Approved by — Kanokkorn Anek, Assistant General Manager, ทะเบียนเลขที่ ว-204-ส-0004

Analysis / Test Report

TESTING
No.0009

Lot ID: 2579706
Date Received : Sep 30, 2025
Date Reported : Oct 03, 2025
Report Number : 3389577-1

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name :
Project Location : WHA SIL

Page 1 of 1

Sample Number	2579706-1
Sampled Date	Sep 30, 2025 9:00 AM
Sample Description	Group 1 Wastewater WW-Plant
Location	WHA SIL : WW-IN : บ่อ Equalization Tank
Date Analysis Commenced	Oct 01, 2025
Condition of Sample	Contained in two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property	Yellow, a lot of odour, solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
COD	mg/L	-	25	145	≤750	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
pH at 25 degree C		-	-	7.5	5.5-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	54	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

Guideline : Standard of WHA Saraburi Industrial Land, Maximum levels for wastewater discharging to central wastewater treatment plant.
Sampling By : Panupong Sanet ทะเบียนเลขที่ ว-204-ว-0204

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

Technical Management — Suwimon Charuangwut, Scientist (3), ทะเบียนเลขที่ ว-204-ว-0018
Approved by — Kanokkorn Anek, Assistant General Manager, ทะเบียนเลขที่ ว-204-ส-0004

Analysis / Test Report

TESTING
No.0009

Lot ID: 2589433
Date Received : Oct 07, 2025
Date Reported : Oct 15, 2025
Report Number : 3412468-1

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name :
Project Location : WHA SIL

Page 1 of 2

Sample Number	2589433-1
Sampled Date	Oct 07, 2025 9:45 AM
Sample Description	Group 1 Wastewater WW-Plant
Location	WHA SIL : WW-IN : บ่อ Equalization Tank
Date Analysis Commenced	Oct 08, 2025
Condition of Sample	Contained in seven plastic bottles and one amber glass bottle, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property	Yellow, a lot of odour, solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2.0	60.9	≤500	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Bangkok
COD	mg/L	-	25	145	≤750	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
Formaldehyde	mg/L	0.03	0.1	<0.1	≤1	Wastewater analysis manual, Environmental Engineering Association of Thailand, 4th ed., 2004	Bangkok
Oil & Grease	mg/L	-	3	9	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Bangkok
pH at 25 degree C		-	-	7.4	5.5-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Phenol	mg/L	0.005	0.01	<0.010	≤1	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5530 D	Bangkok
Sulfide *	mg/L	-	0.5	<0.5	≤1	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-S2 (C, F)	Bangkok
Temperature *	Degree C	-	-	32.3	≤45	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Bangkok

Technical Management — Narin Saiseng, Supervisor, ทะเบียนเลขที่ ว-204-ว-0009
Approved by — Kanokkorn Anek, Assistant General Manager, ทะเบียนเลขที่ ว-204-ส-0004

Analysis / Test Report

TESTING
No.0009

Lot ID: 2589433
Date Received : Oct 07, 2025
Date Reported : Oct 15, 2025
Report Number : 3412468-1

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name :
Project Location : WHA SIL

Page 2 of 2

Sample Number	2589433-1
Sampled Date	Oct 07, 2025 9:45 AM
Sample Description	Group 1 Wastewater WW-Plant
Location	WHA SIL : WW-IN : บ่อ Equalization Tank
Date Analysis Commenced	Oct 08, 2025
Condition of Sample	Contained in seven plastic bottles and one amber glass bottle, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property	Yellow, a lot of odour, solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Total Dissolved solids Dried at 180 degree C	mg/L	-	5	1084	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Bangkok
Total Kjeldahl Nitrogen as N *	mg/L	0.15	1.0	18.0	≤100	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-Norg (C)	Bangkok
Total Phosphorus as P *	mg/L	0.2	0.5	3.2	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-P (B, E)	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	84	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

Guideline : Standard of WHA Saraburi Industrial Land, Maximum levels for wastewater discharging to central wastewater treatment plant.
Sampling By : Chamarong Sriburin ทะเบียนเลขที่ ว-204-ว-0149

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

Technical Management — Narin Saiseng, Supervisor, ทะเบียนเลขที่ ว-204-ว-0009
Approved by — Kanokkorn Anek, Assistant General Manager, ทะเบียนเลขที่ ว-204-ส-0004

Analysis / Test Report

TESTING
No.0009

Lot ID: 2589433
Date Received : Oct 07, 2025
Date Reported : Oct 17, 2025
Report Number : 3412468-2

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name :
Project Location : WHA SIL

Page 1 of 2

Sample Number	2589433-1
Sampled Date	Oct 07, 2025 9:45 AM
Sample Description	Group 1 Wastewater WW-Plant
Location	WHA SIL : WW-IN : บ่อ Equalization Tank
Date Analysis Commenced	Oct 08, 2025
Condition of Sample	Contained in seven plastic bottles and one amber glass bottle, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property	Yellow, a lot of odour, solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Iron	mg/L	0.003	0.005	0.49	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3111 B, 3030 F	Bangkok
Microbiological Testing							
Total Coliform	MPN/100mL	-	-	4600000.0	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 9221 B	Bangkok
Water Testing							
Ammonia Nitrogen *	mg/L	-	0.06	14.2	No Standard	Based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-NH3 (B, F)	Bangkok
Conductivity at 25 degree C *	micromhos/cm	-	0.5	1992	No Standard	Based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2510 B	Bangkok
Dissolved Oxygen (on site) *	mg/L	-	0.1	<0.1	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-O (G)	Bangkok
Nitrate as N *	mg/L	0.06	0.2	Not Detected	No Standard	Based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-NO3 E	Bangkok
Nitrite as N *	mg/L	0.08	0.2	Not Detected	No Standard	Based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-NO2 B	Bangkok

Guideline : Standard of WHA Saraburi Industrial Land, Maximum levels for wastewater discharging to central wastewater treatment plant.
Sampling By : Chamarong Sriburin
Remark :

Approved by — Chanattagarn Inchom, Section Head

Analysis / Test Report

TESTING
No.0009

Lot ID: 2589433
Date Received : Oct 07, 2025
Date Reported : Oct 17, 2025
Report Number : 3412468-2

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name :
Project Location : WHA SIL

Page 2 of 2

- 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

Approved by — Chanattagarn Inchom, Section Head

Analysis / Test Report

TESTING
No.0009

Lot ID: 2589435
Date Received : Oct 14, 2025
Date Reported : Oct 17, 2025
Report Number : 3412904-1

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name :
Project Location : WHA SIL

Page 1 of 1

Sample Number	2589435-1
Sampled Date	Oct 14, 2025 1:05 PM
Sample Description	Group 1 Wastewater WW-Plant
Location	WHA SIL : WW-IN : บ่อ Equalization Tank
Date Analysis Commenced	Oct 15, 2025
Condition of Sample	Contained in two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property	Yellow, a lot of odour, solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
COD	mg/L	-	25	142	≤750	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
pH at 25 degree C		-	-	7.4	5.5-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	75	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

Guideline : Standard of WHA Saraburi Industrial Land, Maximum levels for wastewater discharging to central wastewater treatment plant.
Sampling By : Panupong Sanet ทะเบียนเลขที่ ว-204-ว-0204

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

Technical Management — Nanthawadee Sonboon, Specialist 2, ทะเบียนเลขที่ ว-204-ว-0010
Approved by — Kanokkorn Anek, Assistant General Manager, ทะเบียนเลขที่ ว-204-ส-0004

Analysis / Test Report

TESTING No.0009

Lot ID: 2589436
Date Received : Oct 21, 2025
Date Reported : Oct 27, 2025
Report Number : 3412905-1

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name :
Project Location : WHA SIL

Page 1 of 1

Sample Number	2589436-1
Sampled Date	Oct 21, 2025 1:00 PM
Sample Description	Group 1 Wastewater WW-Plant
Location	WHA SIL : WW-IN : ys Equalization Tank
Date Analysis Commenced	Oct 22, 2025
Condition of Sample	Contained in two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property	Yellow, a lot of odour, solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
COD	mg/L	-	25	163	≤750	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
pH at 25 degree C		-	-	7.7	5.5-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	56	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

Guideline : Standard of WHA Saraburi Industrial Land, Maximum levels for wastewater discharging to central wastewater treatment plant.
Sampling By : Panupong Saneri ทะเบียนเลขที่ ว-204-ว-0204

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

Technical Management Siriluk P. — Siriluk Bumrak, Section Head, ทะเบียนเลขที่ ว-204-ว-0013
Approved by Kanokkorn Anek, Assistant General Manager, ทะเบียนเลขที่ ว-204-ง-0004

Analysis / Test Report

TESTING No.0009

Lot ID: 2589437
Date Received : Oct 28, 2025
Date Reported : Oct 31, 2025
Report Number : 3412906-1

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name :
Project Location : WHA SIL

Page 1 of 1

Sample Number	2589437-1
Sampled Date	Oct 28, 2025 8:50 AM
Sample Description	Group 1 Wastewater WW-Plant
Location	WHA SIL : WW-IN : ys Equalization Tank
Date Analysis Commenced	Oct 29, 2025
Condition of Sample	Contained in two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property	Yellow, a lot of odour, solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
COD	mg/L	-	25	169	≤750	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
pH at 25 degree C		-	-	7.4	5.5-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	75	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

Guideline : Standard of WHA Saraburi Industrial Land, Maximum levels for wastewater discharging to central wastewater treatment plant.
Sampling By : Panupong Saneri ทะเบียนเลขที่ ว-204-ว-0204

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

Technical Management Narthawadee Somboon, Specialist 2, ทะเบียนเลขที่ ว-204-ว-0010
Approved by Kanokkorn Anek, Assistant General Manager, ทะเบียนเลขที่ ว-204-ง-0004

Analysis / Test Report

TESTING No.0009

Lot ID: 2598679
Date Received : Nov 04, 2025
Date Reported : Nov 11, 2025
Report Number : 3435134-1

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name :
Project Location : WHA SIL

Page 1 of 2

Sample Number	2598679-1
Sampled Date	Nov 04, 2025 11:00 AM
Sample Description	Group 1 Wastewater WW-Plant
Location	WHA SIL : WW-IN : ys Equalization Tank
Date Analysis Commenced	Nov 05, 2025
Condition of Sample	Contained in one amber glass bottle and eight plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property	Yellow, a lot of odour, solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2.0	38.2	≤500	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Bangkok
COD	mg/L	-	25	122	≤750	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
Color (at Original pH)	ADMI	-	5	22	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2120 F	Bangkok
Color (at pH 7.0)	ADMI	-	5	22	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2120 F	Bangkok
Formaldehyde	mg/L	0.03	0.1	Not Detected	≤1	Wastewater analysis manual, Environmental Engineering Association of Thailand, 4th ed., 2004	Bangkok
Oil & Grease	mg/L	-	3	4	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Bangkok
pH at 25 degree C		-	-	7.4	5.5-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Phenol	mg/L	0.005	0.01	Not Detected	≤1	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5530 D	Bangkok

Technical Management Suwimon Charuangwut, Scientist (3), ทะเบียนเลขที่ ว-204-ว-0018
Approved by Kanokkorn Anek, Assistant General Manager, ทะเบียนเลขที่ ว-204-ง-0004

Analysis / Test Report

TESTING No.0009

Lot ID: 2598679
Date Received : Nov 04, 2025
Date Reported : Nov 11, 2025
Report Number : 3435134-1

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name :
Project Location : WHA SIL

Page 2 of 2

Sample Number	2598679-1
Sampled Date	Nov 04, 2025 11:00 AM
Sample Description	Group 1 Wastewater WW-Plant
Location	WHA SIL : WW-IN : ys Equalization Tank
Date Analysis Commenced	Nov 05, 2025
Condition of Sample	Contained in one amber glass bottle and eight plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property	Yellow, a lot of odour, solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Sulfide *	mg/L	-	0.5	<0.5	≤1	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-S2 (C, F)	Bangkok
Temperature *	Degree C	-	-	30.2	≤45	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	872	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Bangkok
Total Kjeldahl Nitrogen as N *	mg/L	0.15	1.0	18.3	≤100	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-Norg (C)	Bangkok
Total Phosphorus as P *	mg/L	0.2	0.5	3.3	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-P (B, E)	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	56	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

Guideline : Standard of WHA Saraburi Industrial Land, Maximum levels for wastewater discharging to central wastewater treatment plant.
Sampling By : Panupong Saneri ทะเบียนเลขที่ ว-204-ว-0204

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

Technical Management Suwimon Charuangwut, Scientist (3), ทะเบียนเลขที่ ว-204-ว-0018
Approved by Kanokkorn Anek, Assistant General Manager, ทะเบียนเลขที่ ว-204-ง-0004

Analysis / Test Report

TESTING No.0009

Lot ID: 2598679
Date Received : Nov 04, 2025
Date Reported : Nov 11, 2025
Report Number : 3435134-2

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name :
Project Location : WHA SIL

Page 1 of 2

Sample Number	2598679-1
Sampled Date	Nov 04, 2025 11:00 AM
Sample Description	Group 1 Wastewater WW-Plant
Location	WHA SIL : WW-IN : ys Equalization Tank
Date Analysis Commenced	Nov 05, 2025
Condition of Sample	Contained in one amber glass bottle and eight plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property	Yellow, a lot of odour, solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Iron	mg/L	0.003	0.005	0.73	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3120 B,3030 F	Bangkok
Microbiological Testing							
Total Coliform	MPN/100mL	-	-	11000000.0	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 9221 B	Bangkok
Water Testing							
Ammonia Nitrogen *	mg/L	-	0.06	13.8	No Standard	Based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-NH3 (B, F)	Bangkok
Conductivity at 25 degree C *	micromhos/cm	-	0.5	1676	No Standard	Based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2510 B	Bangkok
Dissolved Oxygen (on site) *	mg/L	-	0.1	<0.1	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-O (G)	Bangkok
Nitrate as N *	mg/L	0.06	0.2	Not Detected	No Standard	Based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-NO3 E	Bangkok
Nitrite as N *	mg/L	0.06	0.2	Not Detected	No Standard	Based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-NO2 B	Bangkok

Guideline : Standard of WHA Saraburi Industrial Land, Maximum levels for wastewater discharging to central wastewater treatment plant.
Sampling By : Panupong Saneri

Remark :

Approved by Savitree Nosangiam, Manager

Analysis / Test Report

TESTING No.0009

Lot ID: 2598679
Date Received : Nov 04, 2025
Date Reported : Nov 11, 2025
Report Number : 3435134-2

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name :
Project Location : WHA SIL

Page 2 of 2

- LOD : Limit of Detection
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- 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

Approved by Savitree Nosangiam, Manager

Analysis / Test Report

TESTING No.0009

Lot ID: 2598680
Date Received : Nov 11, 2025
Date Reported : Nov 14, 2025
Report Number : 3435148-1

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name :
Project Location : WHA SIL

Page 1 of 1

Sample Number	2598680-1
Sampled Date	Nov 11, 2025 1:15 PM
Sample Description	Group 1 Wastewater WW-Plant
Location	WHA SIL : WW-IN : ys Equalization Tank
Date Analysis Commenced	Nov 12, 2025
Condition of Sample	Contained in one plastic bottle, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property	Yellow, a lot of odour, solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
COD	mg/L	-	25	91	≤750	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
pH at 25 degree C		-	-	7.9	5.5-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	106	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

Guideline : Standard of WHA Saraburi Industrial Land, Maximum levels for wastewater discharging to central wastewater treatment plant.
Sampling By : Teerawat Puangsuk ทะเบียนเลขที่ ว-204-ว-0058

Remark :
- LOD : Limit of Detection
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- Sampling is not included in scope of accreditation ISO/IEC 17025

Technical Management Narthawadee Somboon, Specialist 2, ทะเบียนเลขที่ ว-204-ว-0010
Approved by Kanokkorn Anek, Assistant General Manager, ทะเบียนเลขที่ ว-204-ง-0004

Analysis / Test Report

TESTING No.0009

Lot ID: 2598681
Date Received : Nov 18, 2025
Date Reported : Nov 22, 2025
Report Number : 3435149-1

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name :
Project Location : WHA SIL

Page 1 of 1

Sample Number	2598681-1
Sampled Date	Nov 18, 2025 9:50 AM
Sample Description	Group 1 Wastewater WW-Plant
Location	WHA SIL : WW-IN : ys Equalization Tank
Date Analysis Commenced	Nov 19, 2025
Condition of Sample	Contained in two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property	Yellow, a lot of odour, solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
COD	mg/L	-	25	307	≤750	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
pH at 25 degree C		-	-	7.5	5.5-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	128	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

Guideline : Standard of WHA Saraburi Industrial Land, Maximum levels for wastewater discharging to central wastewater treatment plant.
Sampling By : Panupong Saneri ทะเบียนเลขที่ ว-204-ว-0204

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

Technical Management Suwimon Charuangwut, Scientist (3), ทะเบียนเลขที่ ว-204-ว-0018
Approved by Kanokkorn Anek, Assistant General Manager, ทะเบียนเลขที่ ว-204-ง-0004

Analysis / Test Report

TESTING No.0009

Lot ID: 2598682
Date Received : Nov 25, 2025
Date Reported : Nov 29, 2025
Report Number : 3435150-1

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name :
Project Location : WHA SIL

Page 1 of 1

Sample Number	2598682-1
Sampled Date	Nov 25, 2025 10:28 AM
Sample Description	Group 1 Wastewater WW-Plant
Location	WHA SIL : WW-IN : ys Equalization Tank
Date Analysis Commenced	Nov 26, 2025
Condition of Sample	Contained in two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property	Yellow, a lot of odour, solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
COD	mg/L	-	25	198	≤750	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
pH at 25 degree C		-	-	7.8	5.5-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	88	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

Guideline : Standard of WHA Saraburi Industrial Land, Maximum levels for wastewater discharging to central wastewater treatment plant.
Sampling By : Cholladet Warin ทะเบียนเลขที่ ว-204-ว-0029

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

Technical Management Suwimon Charuangwut, Scientist (3), ทะเบียนเลขที่ ว-204-ว-0018
Approved by Kanokkorn Anek, Assistant General Manager, ทะเบียนเลขที่ ว-204-ง-0004

ALS

Analysis / Test Report

TESTING No.0009

Lot ID: 25107078

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name :
Project Location : WHA SIL

Date Received : Dec 02, 2025
Date Reported : Dec 12, 2025
Report Number : 3456209-1

Sample Number 25107078-1
Sampled Date Dec 02, 2025 11:35 AM
Sample Description Group 1 Wastewater WW-Plant
Location WHA SIL : WW-IN : บ่อ Equalization Tank
Date Analysis Commenced Dec 03, 2025
Condition of Sample Contained in ten plastic bottles, three amber glass bottles and two glass vials, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property Yellow, a lot of odour, solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Arsenic	mg/L	0.0003	0.0005	0.002	≤0.25	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Barium	mg/L	0.0003	0.0005	0.05	≤1	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	≤0.03	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	0.02	≤2	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	≤0.25	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	≤0.2	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	0.07	≤5	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok

Technical Management — Siriluk P. — Siriluk Bunnak, Section Head, ทะเบียนเลขที่ ว-204-ว-0013
Approved by — Kanokkorn Anek, Assistant General Manager, ทะเบียนเลขที่ ว-204-ค-0004

ALS

Analysis / Test Report

TESTING No.0009

Lot ID: 25107078

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name :
Project Location : WHA SIL

Date Received : Dec 02, 2025
Date Reported : Dec 12, 2025
Report Number : 3456209-1

Sample Number 25107078-1
Sampled Date Dec 02, 2025 11:35 AM
Sample Description Group 1 Wastewater WW-Plant
Location WHA SIL : WW-IN : บ่อ Equalization Tank
Date Analysis Commenced Dec 03, 2025
Condition of Sample Contained in ten plastic bottles, three amber glass bottles and two glass vials, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property Yellow, a lot of odour, solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Mercury *	mg/L	0.0001	0.0005	Not Detected	≤0.005	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3112	Bangkok
Nickel	mg/L	0.0003	0.0005	0.02	≤1	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Selenium	mg/L	0.0003	0.0005	Not Detected	≤0.02	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Trivalent Chromium *	mg/L	-	0.01	<0.01	≤0.75	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Zinc	mg/L	0.003	0.005	0.09	≤5	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Pesticides - Organochlorine Group							
2,4-DDD *	ug/L	0.01	0.02	Not Detected	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 6630 D, part 6410 B	Bangkok
2,4-DDE *	ug/L	0.01	0.02	Not Detected	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 6630 D, part 6410 B	Bangkok

Technical Management — Siriluk P. — Siriluk Bunnak, Section Head, ทะเบียนเลขที่ ว-204-ว-0013
Approved by — Kanokkorn Anek, Assistant General Manager, ทะเบียนเลขที่ ว-204-ค-0004

ALS

Analysis / Test Report

TESTING No.0009

Lot ID: 25107078

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name :
Project Location : WHA SIL

Date Received : Dec 02, 2025
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Report Number : 3456209-1

Sample Number 25107078-1
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Condition of Sample Contained in ten plastic bottles, three amber glass bottles and two glass vials, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property Yellow, a lot of odour, solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Pesticides - Organochlorine Group							
2,4-DDT *	ug/L	0.01	0.02	Not Detected	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 6630 D, part 6410 B	Bangkok
4,4-DDD *	ug/L	0.01	0.02	Not Detected	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 6630 D, part 6410 B	Bangkok
4,4-DDE *	ug/L	0.01	0.02	Not Detected	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 6630 D, part 6410 B	Bangkok
4,4-DDT *	ug/L	0.01	0.02	Not Detected	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 6630 D, part 6410 B	Bangkok
Aldrin *	ug/L	0.01	0.02	Not Detected	Not Detected	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 6630 D, part 6410 B	Bangkok
alpha-BHC *	ug/L	0.01	0.02	Not Detected	Not Detected	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 6630 D, part 6410 B	Bangkok
beta-BHC *	ug/L	0.01	0.02	Not Detected	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 6630 D, part 6410 B	Bangkok

Technical Management — Siriluk P. — Siriluk Bunnak, Section Head, ทะเบียนเลขที่ ว-204-ว-0013
Approved by — Kanokkorn Anek, Assistant General Manager, ทะเบียนเลขที่ ว-204-ค-0004

ALS

Analysis / Test Report

TESTING No.0009

Lot ID: 25107078

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name :
Project Location : WHA SIL

Date Received : Dec 02, 2025
Date Reported : Dec 12, 2025
Report Number : 3456209-1

Sample Number 25107078-1
Sampled Date Dec 02, 2025 11:35 AM
Sample Description Group 1 Wastewater WW-Plant
Location WHA SIL : WW-IN : บ่อ Equalization Tank
Date Analysis Commenced Dec 03, 2025
Condition of Sample Contained in ten plastic bottles, three amber glass bottles and two glass vials, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property Yellow, a lot of odour, solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Pesticides - Organochlorine Group							
Chlordane *	ug/L	0.02	0.04	Not Detected	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 6630 D, part 6410 B	Bangkok
delta-BHC *	ug/L	0.01	0.02	Not Detected	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 6630 D, part 6410 B	Bangkok
Dieldrin *	ug/L	0.01	0.02	Not Detected	Not Detected	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 6630 D, part 6410 B	Bangkok
Endosulfan I *	ug/L	0.01	0.02	Not Detected	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 6630 D, part 6410 B	Bangkok
Endosulfan II *	ug/L	0.01	0.02	Not Detected	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 6630 D, part 6410 B	Bangkok
Endrin *	ug/L	0.01	0.02	Not Detected	Not Detected	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 6630 D, part 6410 B	Bangkok
Heptachlor *	ug/L	0.01	0.02	Not Detected	Not Detected	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 6630 D, part 6410 B	Bangkok

Technical Management — Siriluk P. — Siriluk Bunnak, Section Head, ทะเบียนเลขที่ ว-204-ว-0013
Approved by — Kanokkorn Anek, Assistant General Manager, ทะเบียนเลขที่ ว-204-ค-0004

ALS

Analysis / Test Report

TESTING No.0009

Lot ID: 25107078

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
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Date Received : Dec 02, 2025
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Sampled Date Dec 02, 2025 11:35 AM
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Condition of Sample Contained in ten plastic bottles, three amber glass bottles and two glass vials, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property Yellow, a lot of odour, solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Pesticides - Organochlorine Group							
Heptachlor-Epoxide *	ug/L	0.01	0.02	Not Detected	Not Detected	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 6630 D, part 6410 B	Bangkok
Lindane (gamma-BHC) *	ug/L	0.01	0.02	Not Detected	Not Detected	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 6630 D, part 6410 B	Bangkok
Methoxychlor *	ug/L	0.01	0.02	Not Detected	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 6630 D, part 6410 B	Bangkok
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2.0	16.5	≤500	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Bangkok
COD	mg/L	-	25	85	≤750	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
Color (at Original pH)	ADMI	-	5	22	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2120 F	Bangkok
Color (at pH 7.0)	ADMI	-	5	22	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2120 F	Bangkok

Technical Management — Siriluk P. — Siriluk Bunnak, Section Head, ทะเบียนเลขที่ ว-204-ว-0013
Approved by — Kanokkorn Anek, Assistant General Manager, ทะเบียนเลขที่ ว-204-ค-0004

ALS

Analysis / Test Report

TESTING No.0009

Lot ID: 25107078

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name :
Project Location : WHA SIL

Date Received : Dec 02, 2025
Date Reported : Dec 12, 2025
Report Number : 3456209-1

Sample Number 25107078-1
Sampled Date Dec 02, 2025 11:35 AM
Sample Description Group 1 Wastewater WW-Plant
Location WHA SIL : WW-IN : บ่อ Equalization Tank
Date Analysis Commenced Dec 03, 2025
Condition of Sample Contained in ten plastic bottles, three amber glass bottles and two glass vials, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property Yellow, a lot of odour, solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Cyanide as CN	mg/L	0.002	0.005	<0.005	≤0.2	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - CN (C, E)	Bangkok
Formaldehyde	mg/L	0.03	0.1	Not Detected	≤1	Wastewater analysis manual, Environmental Engineering Association of Thailand, 4th ed., 2004	Bangkok
Oil & Grease	mg/L	-	3	<3	≤10	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	5.5-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Phenol	mg/L	0.005	0.01	Not Detected	≤1	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5530 D	Bangkok
Residual Free Chlorine *	mg/L	-	0.1	<0.1	≤1	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500-Cl (F)	Bangkok
Sulfide *	mg/L	-	0.5	<0.5	≤1	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500-S2 (C, F)	Bangkok
Temperature *	Degree C	-	-	27.3	≤45	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Bangkok

Technical Management — Siriluk P. — Siriluk Bunnak, Section Head, ทะเบียนเลขที่ ว-204-ว-0013
Approved by — Kanokkorn Anek, Assistant General Manager, ทะเบียนเลขที่ ว-204-ค-0004

ALS

Analysis / Test Report

TESTING No.0009

Lot ID: 25107078

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name :
Project Location : WHA SIL

Date Received : Dec 02, 2025
Date Reported : Dec 12, 2025
Report Number : 3456209-1

Sample Number 25107078-1
Sampled Date Dec 02, 2025 11:35 AM
Sample Description Group 1 Wastewater WW-Plant
Location WHA SIL : WW-IN : บ่อ Equalization Tank
Date Analysis Commenced Dec 03, 2025
Condition of Sample Contained in ten plastic bottles, three amber glass bottles and two glass vials, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property Yellow, a lot of odour, solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Total Dissolved solids Dried at 180 degree C	mg/L	-	5	852	≤3000	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Bangkok
Total Kjeldahl Nitrogen as N *	mg/L	0.15	1.0	20.1	≤100	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500-Norg (C)	Bangkok
Total Phosphorus as P *	mg/L	0.2	0.5	3.8	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500-P (B, E)	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	34	≤200	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

Guideline : Standard of WHA Saraburi Industrial Land, Maximum levels for wastewater discharging to central wastewater treatment plant.
Sampling By : Teerawat Phuangsuk ทะเบียนเลขที่ ว-204-ว-0058

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

Technical Management — Siriluk P. — Siriluk Bunnak, Section Head, ทะเบียนเลขที่ ว-204-ว-0013
Approved by — Kanokkorn Anek, Assistant General Manager, ทะเบียนเลขที่ ว-204-ค-0004

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Analysis / Test Report

TESTING No.0009

Lot ID: 25107078

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name :
Project Location : WHA SIL

Date Received : Dec 02, 2025
Date Reported : Dec 12, 2025
Report Number : 3456209-2

Sample Number 25107078-1
Sampled Date Dec 02, 2025 11:35 AM
Sample Description Group 1 Wastewater WW-Plant
Location WHA SIL : WW-IN : บ่อ Equalization Tank
Date Analysis Commenced Dec 03, 2025
Condition of Sample Contained in ten plastic bottles, three amber glass bottles and two glass vials, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property Yellow, a lot of odour, solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Iron	mg/L	0.003	0.005	0.55	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Silver	mg/L	0.0003	0.0005	0.008	≤1	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Microbiological Testing							
Total Coliform	MPN/100mL	-	-	130000.0	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 9221 B	Bangkok
Pesticides - Organochlorine Group							
alpha-Chlordane *	ug/L	0.01	0.02	Not Detected	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 6630 D, part 6410 B	Bangkok
gamma-Chlordane *	ug/L	0.01	0.02	Not Detected	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 6630 D, part 6410 B	Bangkok
Hexachlorobenzene *	ug/L	0.01	0.02	Not Detected	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 6630 D, part 6410 B	Bangkok
Mirex *	ug/L	0.01	0.02	Not Detected	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 6630 D, part 6410 B	Bangkok
Water Testing							

Approved by — Sithichok T. — Sithichok Thongnguen, Scientist (3)

ALS

Analysis / Test Report

TESTING No.0009

Lot ID: 25107078

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name :
Project Location : WHA SIL

Date Received : Dec 02, 2025
Date Reported : Dec 12, 2025
Report Number : 3456209-2

Sample Number 25107078-1
Sampled Date Dec 02, 2025 11:35 AM
Sample Description Group 1 Wastewater WW-Plant
Location WHA SIL : WW-IN : บ่อ Equalization Tank
Date Analysis Commenced Dec 03, 2025
Condition of Sample Contained in ten plastic bottles, three amber glass bottles and two glass vials, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property Yellow, a lot of odour, solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Ammonia Nitrogen *	mg/L	-	0.08	19.9	No Standard	Based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500-NH3 (B, F)	Bangkok
Conductivity at 25 degree C *	micromhos/cm	-	0.5	1627	No Standard	Based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2510 B	Bangkok
Dissolved Oxygen (on site) *	mg/L	-	0.1	2.8	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500-O (G)	Bangkok
Nitrate as N *	mg/L	0.06	0.2	Not Detected	No Standard	Based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500-NO3 E	Bangkok
Nitrite as N *	mg/L	0.06	0.2	<0.200	No Standard	Based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500-NO2 B	Bangkok

Guideline : Standard of WHA Saraburi Industrial Land, Maximum levels for wastewater discharging to central wastewater treatment plant.
Sampling By : Teerawat Phuangsuk

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

Approved by — Sithichok T. — Sithichok Thongnguen, Scientist (3)

Analysis / Test Report

TESTING No.0009

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name :
Project Location: WHA SIL

Lot ID: 25107088
Date Received : Dec 09, 2025
Date Reported : Dec 15, 2025
Report Number : 3456225-1

Sample Number	25107088-1
Sampled Date	Dec 09, 2025 12:00 PM
Sample Description	Group 1 Wastewater WW-Plant
Location	WHA SIL : WW-IN : บ่อ Equalization Tank
Date Analysis Commenced	Dec 11, 2025
Condition of Sample	Contained in two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property	Yellow, a lot of odour, solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
COD	mg/L	-	25	172	≤750	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
pH at 25 degree C		-	-	7.5	5.5-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	68	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

Guideline : Standard of WHA Saraburi Industrial Land, Maximum levels for wastewater discharging to central wastewater treatment plant.
Sampling By : Panupong Saenori ทะเบียนเลขที่ ว-204-ว-0204

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

Technical Management: Suwimon C. — Suwimon Charuangwut, Scientist (3), ทะเบียนเลขที่ ว-204-ว-0018
Approved by: Kanokkorn Anek, Assistant General Manager, ทะเบียนเลขที่ ว-204-ส-0004

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Analysis / Test Report

TESTING No.0009

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name :
Project Location: WHA SIL

Lot ID: 25107089
Date Received : Dec 16, 2025
Date Reported : Dec 22, 2025
Report Number : 3456230-1

Sample Number	25107089-1
Sampled Date	Dec 16, 2025 11:40 AM
Sample Description	Group 1 Wastewater WW-Plant
Location	WHA SIL : WW-IN : บ่อ Equalization Tank
Date Analysis Commenced	Dec 17, 2025
Condition of Sample	Contained in two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property	Yellow, a lot of odour, solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
COD	mg/L	-	25	176	≤750	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
pH at 25 degree C		-	-	7.8	5.5-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	74	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

Guideline : Standard of WHA Saraburi Industrial Land, Maximum levels for wastewater discharging to central wastewater treatment plant.
Sampling By : Panupong Saenori ทะเบียนเลขที่ ว-204-ว-0204

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

Technical Management: Siriluk P. — Siriluk Bunnak, Section Head, ทะเบียนเลขที่ ว-204-ว-0013
Approved by: Kanokkorn Anek, Assistant General Manager, ทะเบียนเลขที่ ว-204-ส-0004

ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company
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Analysis / Test Report

TESTING No.0009

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name :
Project Location: WHA SIL

Lot ID: 25107090
Date Received : Dec 23, 2025
Date Reported : Dec 26, 2025
Report Number : 3456234-1

Sample Number	25107090-1
Sampled Date	Dec 23, 2025 11:50 AM
Sample Description	Group 1 Wastewater WW-Plant
Location	WHA SIL : WW-IN : บ่อ Equalization Tank
Date Analysis Commenced	Dec 24, 2025
Condition of Sample	Contained in two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property	Yellow, a lot of odour, solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
COD	mg/L	-	25	271	≤750	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
pH at 25 degree C		-	-	7.7	5.5-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	92	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

Guideline : Standard of WHA Saraburi Industrial Land, Maximum levels for wastewater discharging to central wastewater treatment plant.
Sampling By : Teerawat Puangsuk ทะเบียนเลขที่ ว-204-ว-0058

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

Technical Management: Narin Saiseng, Supervisor, ทะเบียนเลขที่ ว-204-ว-0009
Approved by: Kanokkorn Anek, Assistant General Manager, ทะเบียนเลขที่ ว-204-ส-0004

ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company
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Analysis / Test Report

TESTING No.0009

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name :
Project Location: WHA SIL

Lot ID: 25107091
Date Received : Dec 29, 2025
Date Reported : Jan 06, 2026
Report Number : 3456237-1

Sample Number	25107091-1
Sampled Date	Dec 29, 2025 11:40 AM
Sample Description	Group 1 Wastewater WW-Plant
Location	WHA SIL : WW-IN : บ่อ Equalization Tank
Date Analysis Commenced	Dec 30, 2025
Condition of Sample	Contained in two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property	Yellow, a lot of odour, solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
COD	mg/L	-	25	86	≤750	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
pH at 25 degree C		-	-	7.4	5.5-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	48	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

Guideline : Standard of WHA Saraburi Industrial Land, Maximum levels for wastewater discharging to central wastewater treatment plant.
Sampling By : Panupong Saenori ทะเบียนเลขที่ ว-204-ว-0204

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

Technical Management: Narin Saiseng, Supervisor, ทะเบียนเลขที่ ว-204-ว-0009
Approved by: Kanokkorn Anek, Assistant General Manager, ทะเบียนเลขที่ ว-204-ส-0004

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Analysis / Test Report

TESTING No.0009

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name :
Project Location: WHA SIL

Lot ID: 2559970
Date Received : Jul 01, 2025
Date Reported : Jul 08, 2025
Report Number : 3344169-1

Sample Number	2559970-1
Sampled Date	Jul 01, 2025 11:50 AM
Sample Description	Group 1 Wastewater WW-Plant
Location	WHA SIL : WW-RP : บ่อ Retention Pond
Date Analysis Commenced	Jul 02, 2025
Condition of Sample	Contained in one amber glass bottle and seven plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property	Yellow, some odour, solid, and no turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	1.0	2.4	≤20	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Bangkok
COD	mg/L	-	25	<25	≤120	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
Formaldehyde	mg/L	0.03	0.1	Not Detected	≤1.0	Wastewater analysis manual, Environmental Engineering Association of Thailand, 4th ed., 2004	Bangkok
Oil & Grease	mg/L	-	3	<3	≤5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Bangkok
pH (on site) *		-	-	8.0	5.5-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Phenol	mg/L	0.0005	0.001	Not Detected	≤1.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5530 B, D	Bangkok
Sulfide *	mg/L	-	0.5	<0.5	≤1.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-S2 (C, F)	Bangkok
Temperature *	Degree C	-	-	31.4	≤40	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Bangkok

Technical Management: Siriluk P. — Siriluk Bunnak, Section Head, ทะเบียนเลขที่ ว-204-ว-0013
Approved by: Kanokkorn Anek, Assistant General Manager, ทะเบียนเลขที่ ว-204-ส-0004

ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company
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Analysis / Test Report

TESTING No.0009

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name :
Project Location: WHA SIL

Lot ID: 2559970
Date Received : Jul 01, 2025
Date Reported : Jul 08, 2025
Report Number : 3344169-1

Sample Number	2559970-1
Sampled Date	Jul 01, 2025 11:50 AM
Sample Description	Group 1 Wastewater WW-Plant
Location	WHA SIL : WW-RP : บ่อ Retention Pond
Date Analysis Commenced	Jul 02, 2025
Condition of Sample	Contained in one amber glass bottle and seven plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property	Yellow, some odour, solid, and no turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Total Dissolved solids Dried at 180 degree C	mg/L	-	5	268	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Bangkok
Total Kjeldahl Nitrogen as N *	mg/L	0.15	1.0	1.8	≤100	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-Norg (C)	Bangkok
Total Phosphorus as P *	mg/L	0.2	0.5	<0.5	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-P (B, E)	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	10	≤50	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

Guideline : Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017).
Sampling By : Teerawat Puangsuk ทะเบียนเลขที่ ว-204-ว-0058

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

Technical Management: Siriluk P. — Siriluk Bunnak, Section Head, ทะเบียนเลขที่ ว-204-ว-0013
Approved by: Kanokkorn Anek, Assistant General Manager, ทะเบียนเลขที่ ว-204-ส-0004

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Analysis / Test Report

TESTING No.0009

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name :
Project Location: WHA SIL

Lot ID: 2559970
Date Received : Jul 01, 2025
Date Reported : Jul 08, 2025
Report Number : 3344169-2

Sample Number	2559970-1
Sampled Date	Jul 01, 2025 11:50 AM
Sample Description	Group 1 Wastewater WW-Plant
Location	WHA SIL : WW-RP : บ่อ Retention Pond
Date Analysis Commenced	Jul 02, 2025
Condition of Sample	Contained in one amber glass bottle and seven plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property	Yellow, some odour, solid, and no turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Iron	mg/L	0.003	0.005	0.22	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B, 3030 F	Bangkok
Microbiological Testing							
Total Coliform	MPN/100mL	-	-	3300.0	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 9221 B	Bangkok
Water Testing							
Ammonia Nitrogen *	mg/L	-	0.06	0.70	No Standard	Based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-NH3 (B, F)	Bangkok
Conductivity at 25 degree C *	micromhos/cm	-	0.5	515	No Standard	Based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2510 B	Bangkok
Dissolved Oxygen (on site) *	mg/L	-	0.1	7.0	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-O (G)	Bangkok
Nitrate as N *	mg/L	0.06	0.2	2.74	No Standard	Based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-NO3 E	Bangkok
Nitrite as N *	mg/L	0.08	0.2	<0.200	No Standard	Based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-NO2 B	Bangkok

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

Approved by: Sawitree N. — Sawitree Noisangiam, Manager

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Analysis / Test Report

TESTING No.0009

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name :
Project Location: WHA SIL

Lot ID: 2559970
Date Received : Jul 01, 2025
Date Reported : Jul 08, 2025
Report Number : 3344169-2

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

Approved by: Sawitree N. — Sawitree Noisangiam, Manager

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Analysis / Test Report

TESTING No.0009

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name :
Project Location: WHA SIL

Lot ID: 2559971
Date Received : Jul 08, 2025
Date Reported : Jul 14, 2025
Report Number : 3344185-1

Sample Number	2559971-1
Sampled Date	Jul 08, 2025 11:50 AM
Sample Description	Group 1 Wastewater WW-Plant
Location	WHA SIL : WW-RP : บ่อ Retention Pond
Date Analysis Commenced	Jul 09, 2025
Condition of Sample	Contained in two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property	Yellow, some odour, solid and no turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
COD	mg/L	-	25	38	≤120	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
pH (on site) *		-	-	8.5	5.5-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	18	≤50	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

Guideline : Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017).
Sampling By : Panupong Saenori ทะเบียนเลขที่ ว-204-ว-0204

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

Technical Management: Siriluk P. — Siriluk Bunnak, Section Head, ทะเบียนเลขที่ ว-204-ว-0013
Approved by: Kanokkorn Anek, Assistant General Manager, ทะเบียนเลขที่ ว-204-ส-0004

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Analysis / Test Report

TESTING No.0009

Lot ID: 2559972
Date Received : Jul 15, 2025
Date Reported : Jul 19, 2025
Report Number : 3344191-1

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name :
Project Location: WHA SIL

Sample Number 2559972-1
Sampled Date Jul 15, 2025 11:45 AM
Sample Description Group 1 Wastewater WW-Plant
Location WHA SIL : WW-RP : บ่อ Retention Pond
Date Analysis Commenced Jul 16, 2025
Condition of Sample Contained in two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property Yellow, some odour, solid and no turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
COD	mg/L	-	25	32	≤120	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
pH (on site) *		-	-	8.7	5.5-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	19	≤50	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

Guideline : Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017).
Sampling By : Teerawat Puangsuk ทะเบียนเลขที่ ว-204-ว-0058

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

Technical Management Suwimon C
Suwimon Chairuangwut
Scientist (3)
ทะเบียนเลขที่ ว-204-ว-0018

Approved by Kanokkorn Anek
Assistant General Manager
ทะเบียนเลขที่ ว-204-ค-0004

Analysis / Test Report

TESTING No.0009

Lot ID: 2559973
Date Received : Jul 22, 2025
Date Reported : Jul 26, 2025
Report Number : 3344203-1

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name :
Project Location: WHA SIL

Sample Number 2559973-1
Sampled Date Jul 22, 2025 9:50 AM
Sample Description Group 1 Wastewater WW-Plant
Location WHA SIL : WW-RP : บ่อ Retention Pond
Date Analysis Commenced Jul 23, 2025
Condition of Sample Contained in two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property Yellow, some odour, solid and no turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
COD	mg/L	-	25	41	≤120	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
pH (on site) *		-	-	7.8	5.5-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	16	≤50	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

Guideline : Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017).
Sampling By : Panupong Sanon ทะเบียนเลขที่ ว-204-ว-0204

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

Technical Management Suwimon C
Suwimon Chairuangwut
Scientist (3)
ทะเบียนเลขที่ ว-204-ว-0018

Approved by Kanokkorn Anek
Assistant General Manager
ทะเบียนเลขที่ ว-204-ค-0004

Analysis / Test Report

TESTING No.0009

Lot ID: 2559974
Date Received : Jul 29, 2025
Date Reported : Aug 01, 2025
Report Number : 3344212-1

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name :
Project Location: WHA SIL

Sample Number 2559974-1
Sampled Date Jul 29, 2025 1:10 PM
Sample Description Group 1 Wastewater WW-Plant
Location WHA SIL : WW-RP : บ่อ Retention Pond
Date Analysis Commenced Jul 30, 2025
Condition of Sample Contained in two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property Green, some odour, solid and no turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
COD	mg/L	-	25	35	≤120	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
pH (on site) *		-	-	8.5	5.5-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	15	≤50	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

Guideline : Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017).
Sampling By : Panupong Sanon ทะเบียนเลขที่ ว-204-ว-0204

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

Technical Management Nant Sont
Nanthawadee Sontboon
Specialist 2
ทะเบียนเลขที่ ว-204-ว-0010

Approved by Kanokkorn Anek
Assistant General Manager
ทะเบียนเลขที่ ว-204-ค-0004

Analysis / Test Report

TESTING No.0009

Lot ID: 2569674
Date Received : Aug 05, 2025
Date Reported : Aug 13, 2025
Report Number : 3366085-1

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name :
Project Location: WHA SIL

Sample Number 2569674-1
Sampled Date Aug 05, 2025 10:30 AM
Sample Description Group 1 Wastewater WW-Plant
Location WHA SIL : WW-RP : บ่อ Retention Pond
Date Analysis Commenced Aug 06, 2025
Condition of Sample Contained in one amber glass bottle and seven plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property Yellow, some odour, solid and no turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2.0	4.8	≤20	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Bangkok
COD	mg/L	-	25	37	≤120	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
Formaldehyde	mg/L	0.03	0.1	Not Detected	≤1.0	Wastewater analysis manual, Environmental Engineering Association of Thailand, 4th ed., 2004	Bangkok
Oil & Grease	mg/L	-	3	<3	≤5	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Bangkok
pH (on site) *		-	-	8.0	5.5-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Phenol	mg/L	0.0005	0.001	Not Detected	≤1.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5530 B, D	Bangkok
Sulfide *	mg/L	-	0.5	<0.5	≤1.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500-S2 (C, F)	Bangkok
Temperature *	Degree C	-	-	32.6	≤40	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Bangkok

Technical Management Suwimon C
Suwimon Chairuangwut
Scientist (3)
ทะเบียนเลขที่ ว-204-ว-0018

Approved by Kanokkorn Anek
Assistant General Manager
ทะเบียนเลขที่ ว-204-ค-0004

Analysis / Test Report

TESTING No.0009

Lot ID: 2569674
Date Received : Aug 05, 2025
Date Reported : Aug 13, 2025
Report Number : 3366085-1

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name :
Project Location: WHA SIL

Sample Number 2569674-1
Sampled Date Aug 05, 2025 10:30 AM
Sample Description Group 1 Wastewater WW-Plant
Location WHA SIL : WW-RP : บ่อ Retention Pond
Date Analysis Commenced Aug 06, 2025
Condition of Sample Contained in one amber glass bottle and seven plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property Yellow, some odour, solid and no turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Total Dissolved solids Dried at 180 degree C	mg/L	-	5	832	≤3000	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Bangkok
Total Kjeldahl Nitrogen as N *	mg/L	0.15	1.0	5.4	≤100	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500-Norg (C)	Bangkok
Total Phosphorus as P *	mg/L	0.2	0.5	1.0	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500-P (B, E)	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	13	≤50	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

Guideline : Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017).
Sampling By : Panupong Sanon ทะเบียนเลขที่ ว-204-ว-0204

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

Technical Management Suwimon C
Suwimon Chairuangwut
Scientist (3)
ทะเบียนเลขที่ ว-204-ว-0018

Approved by Kanokkorn Anek
Assistant General Manager
ทะเบียนเลขที่ ว-204-ค-0004

Analysis / Test Report

TESTING No.0009

Lot ID: 2569674
Date Received : Aug 05, 2025
Date Reported : Aug 13, 2025
Report Number : 3366085-2

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name :
Project Location: WHA SIL

Sample Number 2569674-1
Sampled Date Aug 05, 2025 10:30 AM
Sample Description Group 1 Wastewater WW-Plant
Location WHA SIL : WW-RP : บ่อ Retention Pond
Date Analysis Commenced Aug 06, 2025
Condition of Sample Contained in one amber glass bottle and seven plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property Yellow, some odour, solid and no turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Iron	mg/L	0.003	0.005	0.21	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Microbiological Testing							
Total Coliform	MPN/100mL	-	-	17000.0	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 9221 B	Bangkok
Water Testing							
Ammonia Nitrogen *	mg/L	-	0.08	2.37	No Standard	Based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500-NH3 (B, F)	Bangkok
Conductivity at 25 degree C *	micromhos/cm	-	0.5	1346	No Standard	Based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2510 B	Bangkok
Dissolved Oxygen (on site) *	mg/L	-	0.1	7.0	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500-O (G)	Bangkok
Nitrate as N *	mg/L	0.06	0.2	3.17	No Standard	Based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500-NO3 E	Bangkok
Nitrite as N *	mg/L	0.06	0.2	0.322	No Standard	Based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500-NO2 B	Bangkok

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

Approved by Sawitree N.
Sawitree Noisangiam
Manager

Analysis / Test Report

TESTING No.0009

Lot ID: 2569674
Date Received : Aug 05, 2025
Date Reported : Aug 13, 2025
Report Number : 3366085-2

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name :
Project Location: WHA SIL

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

Approved by Sawitree N.
Sawitree Noisangiam
Manager

Analysis / Test Report

TESTING No.0009

Lot ID: 2569676
Date Received : Aug 13, 2025
Date Reported : Aug 18, 2025
Report Number : 3366107-1

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name :
Project Location: WHA SIL

Sample Number 2569676-1
Sampled Date Aug 13, 2025 8:10 AM
Sample Description Group 1 Wastewater WW-Plant
Location WHA SIL : WW-RP : บ่อ Retention Pond
Date Analysis Commenced Aug 14, 2025
Condition of Sample Contained in three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property Yellow, some odour, solid and no turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
COD	mg/L	-	25	33	≤120	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
pH (on site) *		-	-	7.8	5.5-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	10	≤50	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

Guideline : Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017).
Sampling By : Panupong Sanon ทะเบียนเลขที่ ว-204-ว-0204

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

Technical Management Suwimon C
Suwimon Chairuangwut
Scientist (3)
ทะเบียนเลขที่ ว-204-ว-0018

Approved by Kanokkorn Anek
Assistant General Manager
ทะเบียนเลขที่ ว-204-ค-0004

Analysis / Test Report

TESTING No.0009

Lot ID: 2569677
Date Received : Aug 19, 2025
Date Reported : Aug 22, 2025
Report Number : 3366108-1

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name :
Project Location: WHA SIL

Sample Number 2569677-1
Sampled Date Aug 19, 2025 10:35 AM
Sample Description Group 1 Wastewater WW-Plant
Location WHA SIL : WW-RP : บ่อ Retention Pond
Date Analysis Commenced Aug 20, 2025
Condition of Sample Contained in two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property Yellow, some odour, no solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
COD	mg/L	-	25	33	≤120	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
pH (on site) *		-	-	8.4	5.5-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	10	≤50	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

Guideline : Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017).
Sampling By : Teerawat Puangsuk ทะเบียนเลขที่ ว-204-ว-0058

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

Technical Management Nant Sont
Nanthawadee Sontboon
Specialist 2
ทะเบียนเลขที่ ว-204-ว-0010

Approved by Kanokkorn Anek
Assistant General Manager
ทะเบียนเลขที่ ว-204-ค-0004

Analysis / Test Report

TESTING No.0009

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name :
Project Location: WHA SIL

Lot ID: 2569678
Date Received : Aug 26, 2025
Date Reported : Aug 29, 2025
Report Number : 3366109-1

Sample Number	2569678-1
Sampled Date	Aug 26, 2025 2:25 PM
Sample Description	Group 1 Wastewater WW-Plant
Location	WHA SIL : WW-RP : ws Retention Pond
Date Analysis Commenced	Aug 27, 2025
Condition of Sample	Contained in two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property	Yellow, some odour, solid and no turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
COD	mg/L	-	25	28	≤120	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
pH (on site) *		-	-	8.5	5.5-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	12	≤50	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

Guideline : Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017).
Sampling By : Panupong Saneri ทะเบียนเลขที่ ว-204-ว-0204

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

Technical Management Siriluk P. — Siriluk Bunnak, Section Head, ทะเบียนเลขที่ ว-204-ว-0013
Approved by Kanokkorn Anek — Kanokkorn Anek, Assistant General Manager, ทะเบียนเลขที่ ว-204-ค-0004

Analysis / Test Report

TESTING No.0009

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name :
Project Location: WHA SIL

Lot ID: 2579714
Date Received : Sep 02, 2025
Date Reported : Sep 09, 2025
Report Number : 3389546-1

Sample Number	2579714-1
Sampled Date	Sep 02, 2025 11:20 AM
Sample Description	Group 1 Wastewater WW-Plant
Location	WHA SIL : WW-RP : ws Retention Pond
Date Analysis Commenced	Sep 03, 2025
Condition of Sample	Contained in two glass vials, eight plastic bottles and one amber glass bottle, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property	Green, some odour, solid and no turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Cadmium	mg/L	0.0003	0.0005	Not Detected	≤0.03	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	≤2.0	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	0.001	0.01	Not Detected	≤0.25	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	0.005	≤0.2	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	≤0.005	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3112	Bangkok
Nickel	mg/L	0.0003	0.0005	0.008	≤1.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Trivalent Chromium *	mg/L	-	0.01	<0.01	≤0.75	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok

Technical Management Sawitree N. — Sawitree Nosangiam, Manager, ทะเบียนเลขที่ ว-204-ว-0007
Approved by Kanokkorn Anek — Kanokkorn Anek, Assistant General Manager, ทะเบียนเลขที่ ว-204-ค-0004

Analysis / Test Report

TESTING No.0009

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name :
Project Location: WHA SIL

Lot ID: 2579714
Date Received : Sep 02, 2025
Date Reported : Sep 09, 2025
Report Number : 3389546-1

Sample Number	2579714-1
Sampled Date	Sep 02, 2025 11:20 AM
Sample Description	Group 1 Wastewater WW-Plant
Location	WHA SIL : WW-RP : ws Retention Pond
Date Analysis Commenced	Sep 03, 2025
Condition of Sample	Contained in two glass vials, eight plastic bottles and one amber glass bottle, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property	Green, some odour, solid and no turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Zinc	mg/L	0.003	0.005	0.02	≤5.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Water Testing							
BOD (5 days at 20 degree C)	mg/L	--	2.0	9.4	≤20	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Bangkok
COD	mg/L	-	25	42	≤120	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
Formaldehyde	mg/L	0.03	0.1	<0.1	≤1.0	Wastewater analysis manual, Environmental Engineering Association of Thailand, 4th ed., 2004	Bangkok
Oil & Grease	mg/L	-	3	<3	≤5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Bangkok
pH (on site) *		-	-	8.8	5.5-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Phenol	mg/L	0.0005	0.001	Not Detected	≤1.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5530 B, D	Bangkok
Sulfide *	mg/L	-	0.5	<0.5	≤1.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-S2 (C, F)	Bangkok

Technical Management Sawitree N. — Sawitree Nosangiam, Manager, ทะเบียนเลขที่ ว-204-ว-0007
Approved by Kanokkorn Anek — Kanokkorn Anek, Assistant General Manager, ทะเบียนเลขที่ ว-204-ค-0004

Analysis / Test Report

TESTING No.0009

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name :
Project Location: WHA SIL

Lot ID: 2579714
Date Received : Sep 02, 2025
Date Reported : Sep 09, 2025
Report Number : 3389546-1

Sample Number	2579714-1
Sampled Date	Sep 02, 2025 11:20 AM
Sample Description	Group 1 Wastewater WW-Plant
Location	WHA SIL : WW-RP : ws Retention Pond
Date Analysis Commenced	Sep 03, 2025
Condition of Sample	Contained in two glass vials, eight plastic bottles and one amber glass bottle, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property	Green, some odour, solid and no turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Temperature *	Degree C	-	-	32.7	≤40	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	852	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Bangkok
Total Kjeldahl Nitrogen as N *	mg/L	0.15	1.0	5.6	≤100	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-Norg (C)	Bangkok
Total Phosphorus as P *	mg/L	0.2	0.5	1.5	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-P (B, E)	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	21	≤50	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

Guideline : Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017).
Sampling By : Panupong Saneri ทะเบียนเลขที่ ว-204-ว-0204

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

Technical Management Sawitree N. — Sawitree Nosangiam, Manager, ทะเบียนเลขที่ ว-204-ว-0007
Approved by Kanokkorn Anek — Kanokkorn Anek, Assistant General Manager, ทะเบียนเลขที่ ว-204-ค-0004

Analysis / Test Report

TESTING No.0009

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name :
Project Location: WHA SIL

Lot ID: 2579714
Date Received : Sep 02, 2025
Date Reported : Sep 09, 2025
Report Number : 3389546-2

Sample Number	2579714-1
Sampled Date	Sep 02, 2025 11:20 AM
Sample Description	Group 1 Wastewater WW-Plant
Location	WHA SIL : WW-RP : ws Retention Pond
Date Analysis Commenced	Sep 03, 2025
Condition of Sample	Contained in two glass vials, eight plastic bottles and one amber glass bottle, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property	Green, some odour, solid and no turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Iron	mg/L	0.003	0.005	0.14	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Microbiological Testing							
Total Coliform	MPN/100mL	-	-	3300.0	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 9221 B	Bangkok
Water Testing							
Ammonia Nitrogen *	mg/L	-	0.06	1.60	No Standard	Based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-NH3 (B, F)	Bangkok
Conductivity at 25 degree C *	micromhos/cm	-	0.5	1429	No Standard	Based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2510 B	Bangkok
Dissolved Oxygen (on site) *	mg/L	-	0.1	7.1	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-O (G)	Bangkok
Nitrate as N *	mg/L	0.06	0.2	5.09	No Standard	Based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-NO3 E	Bangkok
Nitrite as N *	mg/L	0.06	0.2	0.332	No Standard	Based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-NO2 B	Bangkok

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

Approved by Sawitree N. — Sawitree Nosangiam, Manager

Analysis / Test Report

TESTING No.0009

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name :
Project Location: WHA SIL

Lot ID: 2579714
Date Received : Sep 02, 2025
Date Reported : Sep 09, 2025
Report Number : 3389546-2

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

Approved by Sawitree N. — Sawitree Nosangiam, Manager

Analysis / Test Report

TESTING No.0009

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name :
Project Location: WHA SIL

Lot ID: 2579715
Date Received : Sep 09, 2025
Date Reported : Sep 13, 2025
Report Number : 3389563-1

Sample Number	2579715-1
Sampled Date	Sep 09, 2025 12:40 PM
Sample Description	Group 1 Wastewater WW-Plant
Location	WHA SIL : WW-RP : ws Retention Pond
Date Analysis Commenced	Sep 10, 2025
Condition of Sample	Contained in two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property	Yellow, some odour, solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
COD	mg/L	-	25	33	≤120	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
pH (on site) *		-	-	7.6	5.5-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok

Guideline : Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017).
Sampling By : Panupong Saneri ทะเบียนเลขที่ ว-204-ว-0204

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

Technical Management Suwimon C. — Suwimon Chaisangpet, Scientist (3), ทะเบียนเลขที่ ว-204-ว-0018
Approved by Kanokkorn Anek — Kanokkorn Anek, Assistant General Manager, ทะเบียนเลขที่ ว-204-ค-0004

Analysis / Test Report

TESTING No.0009

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name :
Project Location: WHA SIL

Lot ID: 2587116
Date Received : Sep 17, 2025
Date Reported : Sep 20, 2025
Report Number : 3406084-1

Sample Number	2587116-1
Sampled Date	Sep 17, 2025 10:25 AM
Sample Description	Wastewater
Location	WHA SIL : WW-RP : ws Retention Pond
Date Analysis Commenced	Sep 18, 2025
Condition of Sample	Contained in one plastic bottle, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property	Yellow, some odour, solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	19	≤50	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

Guideline : Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017).
Sampling By : Chawanthat Nakpanom ทะเบียนเลขที่ ว-204-ว-0087

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

Technical Management Suwimon C. — Suwimon Chaisangpet, Scientist (3), ทะเบียนเลขที่ ว-204-ว-0018
Approved by Kanokkorn Anek — Kanokkorn Anek, Assistant General Manager, ทะเบียนเลขที่ ว-204-ค-0004

Analysis / Test Report

TESTING No.0009

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name :
Project Location: WHA SIL

Lot ID: 2579716
Date Received : Sep 17, 2025
Date Reported : Sep 20, 2025
Report Number : 3389570-1

Sample Number	2579716-1
Sampled Date	Sep 17, 2025 10:25 AM
Sample Description	Group 1 Wastewater WW-Plant
Location	WHA SIL : WW-RP : ws Retention Pond
Date Analysis Commenced	Sep 18, 2025
Condition of Sample	Contained in two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property	Yellow, some odour, solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
COD	mg/L	-	25	<25	≤120	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
pH (on site) *		-	-	7.3	5.5-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	18	≤50	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

Guideline : Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017).
Sampling By : Chawanthat Nakpanom ทะเบียนเลขที่ ว-204-ว-0087

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

Technical Management Suwimon C. — Suwimon Chaisangpet, Scientist (3), ทะเบียนเลขที่ ว-204-ว-0018
Approved by Kanokkorn Anek — Kanokkorn Anek, Assistant General Manager, ทะเบียนเลขที่ ว-204-ค-0004

Analysis / Test Report

TESTING No.0009

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name :
Project Location : WHA SIL

Lot ID: 2579717
Date Received : Sep 23, 2025
Date Reported : Sep 27, 2025
Report Number : 3369576-1

Page 1 of 1

Sample Number	2579717-1
Sampled Date	Sep 23, 2025 9:33 AM
Sample Description	Group 1 Wastewater WW-Plant
Location	WHA SIL : WW-RP : ws Retention Pond
Date Analysis Commenced	Sep 24, 2025
Condition of Sample	Contained in two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property	Yellow, some odour, solid and no turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
COD	mg/L	-	25	<25	≤120	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
pH (on site) *		-	-	7.9	5.5-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	12	≤50	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

Guideline : Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017).
Sampling By : Teerawat Puangsuk ทะเบียนเลขที่ ว-204-ว-0058

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

Technical Management Suwimon Chaiyangwut, Scientist (3), ทะเบียนเลขที่ ว-204-ว-0018

Approved by Kanokkorn Anek, Assistant General Manager, ทะเบียนเลขที่ ว-204-ฆ-0004

Analysis / Test Report

TESTING No.0009

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name :
Project Location : WHA SIL

Lot ID: 2579718
Date Received : Sep 30, 2025
Date Reported : Oct 03, 2025
Report Number : 3369579-1

Page 1 of 1

Sample Number	2579718-1
Sampled Date	Sep 30, 2025 9:20 AM
Sample Description	Group 1 Wastewater WW-Plant
Location	WHA SIL : WW-RP : ws Retention Pond
Date Analysis Commenced	Oct 01, 2025
Condition of Sample	Contained in two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property	Green, some odour, solid and no turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
COD	mg/L	-	25	<25	≤120	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
pH (on site) *		-	-	7.9	5.5-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	12	≤50	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

Guideline : Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017).
Sampling By : Panupong Sanen ทะเบียนเลขที่ ว-204-ว-0204

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

Technical Management Nanthawadee Somboon, Specialist 2, ทะเบียนเลขที่ ว-204-ว-0010

Approved by Kanokkorn Anek, Assistant General Manager, ทะเบียนเลขที่ ว-204-ฆ-0004

Analysis / Test Report

TESTING No.0009

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name :
Project Location : WHA SIL

Lot ID: 2589443
Date Received : Oct 07, 2025
Date Reported : Oct 15, 2025
Report Number : 3412848-1

Page 1 of 2

Sample Number	2589443-1
Sampled Date	Oct 07, 2025 10:15 AM
Sample Description	Group 1 Wastewater WW-Plant
Location	WHA SIL : WW-RP : ws Retention Pond
Date Analysis Commenced	Oct 08, 2025
Condition of Sample	Contained in seven plastic bottles and one amber glass bottle, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property	Yellow, some odour, solid and no turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2.0	3.7	≤20	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Bangkok
COD	mg/L	-	25	32	≤120	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
Formaldehyde	mg/L	0.03	0.1	<0.1	≤1.0	Wastewater analysis manual, Environmental Engineering Association of Thailand, 4th ed., 2004	Bangkok
Oil & Grease	mg/L	-	3	<3	≤5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Bangkok
pH (on site) *		-	-	8.8	5.5-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Phenol	mg/L	0.005	0.01	Not Detected	≤1.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5530 D	Bangkok
Sulfide *	mg/L	-	0.5	<0.5	≤1.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-S2 (C, F)	Bangkok
Temperature *	Degree C	-	-	32.0	≤40	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Bangkok

Technical Management Narin Saiseng, Supervisor, ทะเบียนเลขที่ ว-204-ว-0009

Approved by Kanokkorn Anek, Assistant General Manager, ทะเบียนเลขที่ ว-204-ฆ-0004

Analysis / Test Report

TESTING No.0009

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name :
Project Location : WHA SIL

Lot ID: 2589443
Date Received : Oct 07, 2025
Date Reported : Oct 15, 2025
Report Number : 3412848-1

Page 2 of 2

Sample Number	2589443-1
Sampled Date	Oct 07, 2025 10:15 AM
Sample Description	Group 1 Wastewater WW-Plant
Location	WHA SIL : WW-RP : ws Retention Pond
Date Analysis Commenced	Oct 08, 2025
Condition of Sample	Contained in seven plastic bottles and one amber glass bottle, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property	Yellow, some odour, solid and no turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Total Dissolved solids Dried at 180 degree C	mg/L	-	5	482	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Bangkok
Total Kjeldahl Nitrogen as N *	mg/L	0.15	1.0	1.6	≤100	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-Norg (C)	Bangkok
Total Phosphorus as P *	mg/L	0.2	0.5	0.9	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-P (B, E)	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	18	≤50	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

Guideline : Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017).
Sampling By : Chainarong Sriburin ทะเบียนเลขที่ ว-204-ว-0149

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

Technical Management Narin Saiseng, Supervisor, ทะเบียนเลขที่ ว-204-ว-0009

Approved by Kanokkorn Anek, Assistant General Manager, ทะเบียนเลขที่ ว-204-ฆ-0004

Analysis / Test Report

TESTING No.0009

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name :
Project Location : WHA SIL

Lot ID: 2589443
Date Received : Oct 07, 2025
Date Reported : Oct 15, 2025
Report Number : 3412848-2

Page 1 of 2

Sample Number	2589443-1
Sampled Date	Oct 07, 2025 10:15 AM
Sample Description	Group 1 Wastewater WW-Plant
Location	WHA SIL : WW-RP : ws Retention Pond
Date Analysis Commenced	Oct 08, 2025
Condition of Sample	Contained in seven plastic bottles and one amber glass bottle, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property	Yellow, some odour, solid and no turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Iron	mg/L	0.003	0.005	0.39	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3120 B, 3030 F	Bangkok
Microbiological Testing							
Total Coliform	MPN/100mL	-	-	3300.0	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 9221 B	Bangkok
Water Testing							
Ammonia Nitrogen *	mg/L	-	0.06	0.10	No Standard	Based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-NH3 (B, F)	Bangkok
Conductivity at 25 degree C *	micromhos/cm	-	0.5	979	No Standard	Based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2510 B	Bangkok
Dissolved Oxygen (on site) *	mg/L	-	0.1	12.8	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-O (G)	Bangkok
Nitrate as N *	mg/L	0.06	0.2	2.05	No Standard	Based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-NO3 E	Bangkok
Nitrite as N *	mg/L	0.06	0.2	<0.200	No Standard	Based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-NO2 B	Bangkok

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

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 Chanattagarn Inchom, Section Head

Analysis / Test Report

TESTING No.0009

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name :
Project Location : WHA SIL

Lot ID: 2589443
Date Received : Oct 07, 2025
Date Reported : Oct 15, 2025
Report Number : 3412848-2

Page 2 of 2

Remark :
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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 Chanattagarn Inchom, Section Head

Analysis / Test Report

TESTING No.0009

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name :
Project Location : WHA SIL

Lot ID: 2589444
Date Received : Oct 14, 2025
Date Reported : Oct 18, 2025
Report Number : 3412913-1

Page 1 of 1

Sample Number	2589444-1
Sampled Date	Oct 14, 2025 1:10 PM
Sample Description	Group 1 Wastewater WW-Plant
Location	WHA SIL : WW-RP : ws Retention Pond
Date Analysis Commenced	Oct 15, 2025
Condition of Sample	Contained in two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property	Yellow, some odour, solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
COD	mg/L	-	25	<25	≤120	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
pH (on site) *		-	-	8.1	5.5-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	44	≤50	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

Guideline : Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017).
Sampling By : Panupong Sanen ทะเบียนเลขที่ ว-204-ว-0204

Remark :
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Technical Management Nanthawadee Somboon, Specialist 2, ทะเบียนเลขที่ ว-204-ว-0010

Approved by Kanokkorn Anek, Assistant General Manager, ทะเบียนเลขที่ ว-204-ฆ-0004

Analysis / Test Report

TESTING No.0009

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name :
Project Location : WHA SIL

Lot ID: 2589445
Date Received : Oct 21, 2025
Date Reported : Oct 27, 2025
Report Number : 3412920-1

Page 1 of 1

Sample Number	2589445-1
Sampled Date	Oct 21, 2025 1:10 PM
Sample Description	Group 1 Wastewater WW-Plant
Location	WHA SIL : WW-RP : ws Retention Pond
Date Analysis Commenced	Oct 22, 2025
Condition of Sample	Contained in two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property	Green, some odour, some solid and no turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
COD	mg/L	-	25	34	≤120	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
pH (on site) *		-	-	7.7	5.5-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	17	≤50	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

Guideline : Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017).
Sampling By : Panupong Sanen ทะเบียนเลขที่ ว-204-ว-0204

Remark :
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- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
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Technical Management Siriluk Bunnak, Section Head, ทะเบียนเลขที่ ว-204-ว-0013

Approved by Kanokkorn Anek, Assistant General Manager, ทะเบียนเลขที่ ว-204-ฆ-0004

Analysis / Test Report

TESTING No.0009

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name :
Project Location : WHA SIL

Lot ID: 2589446
Date Received : Oct 28, 2025
Date Reported : Oct 31, 2025
Report Number : 3412921-1

Page 1 of 1

Sample Number	2589446-1
Sampled Date	Oct 28, 2025 9:00 AM
Sample Description	Group 1 Wastewater WW-Plant
Location	WHA SIL : WW-RP : ws Retention Pond
Date Analysis Commenced	Oct 29, 2025
Condition of Sample	Contained in two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property	Yellow, some odour, solid and no turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
COD	mg/L	-	25	44	≤120	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
pH (on site) *		-	-	7.9	5.5-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	12	≤50	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

Guideline : Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017).
Sampling By : Panupong Sanen ทะเบียนเลขที่ ว-204-ว-0204

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

Technical Management Nanthawadee Somboon, Specialist 2, ทะเบียนเลขที่ ว-204-ว-0010

Approved by Kanokkorn Anek, Assistant General Manager, ทะเบียนเลขที่ ว-204-ฆ-0004

Analysis / Test Report

TESTING No.0009

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name :
Project Location: WHA SIL

Lot ID: 2598687
Date Received : Nov 04, 2025
Date Reported : Nov 11, 2025
Report Number : 3435137-1

Page 1 of 2

Sample Number	2598687-1
Sampled Date	Nov 04, 2025 11:30 AM
Sample Description	Group 1 Wastewater WW-Plant
Location	WHA SIL : WW-RP : บ่อ Retention Pond
Date Analysis Commenced	Nov 05, 2025
Condition of Sample	Contained in one amber glass bottle and eight plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property	Green, some odour, solid and no turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2.0	4.4	≤20	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Bangkok
COD	mg/L	-	25	32	≤120	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
Color (at Original pH)	ADMI	-	5	24	≤300	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2120 F	Bangkok
Color (at pH 7.0)	ADMI	-	5	24	≤300	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2120 F	Bangkok
Formaldehyde	mg/L	0.03	0.1	Not Detected	≤1.0	Wastewater analysis manual, Environmental Engineering Association of Thailand, 4th ed., 2004	Bangkok
Oil & Grease	mg/L	-	3	<3	≤5	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Bangkok
pH (on site) *	-	-	-	7.9	5.5-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Phenol	mg/L	0.005	0.01	Not Detected	≤1.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5530 D	Bangkok

Technical Management Suwimon C. — Suwimon Charuangwut, Scientist (3), ทะเบียนเลขที่ ว-204-ว-0018

Approved by Kanokkorn Anek, Assistant General Manager, ทะเบียนเลขที่ ว-204-ค-0004

Analysis / Test Report

TESTING No.0009

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name :
Project Location: WHA SIL

Lot ID: 2598687
Date Received : Nov 04, 2025
Date Reported : Nov 11, 2025
Report Number : 3435137-1

Page 2 of 2

Sample Number	2598687-1
Sampled Date	Nov 04, 2025 11:30 AM
Sample Description	Group 1 Wastewater WW-Plant
Location	WHA SIL : WW-RP : บ่อ Retention Pond
Date Analysis Commenced	Nov 05, 2025
Condition of Sample	Contained in one amber glass bottle and eight plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property	Green, some odour, solid and no turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Sulfide *	mg/L	-	0.5	<0.5	≤1.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500-S2 (C, F)	Bangkok
Temperature *	Degree C	-	-	29.6	≤40	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	232	≤3000	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Bangkok
Total Kjeldahl Nitrogen as N *	mg/L	0.15	1.0	1.4	≤100	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500-Norg (C)	Bangkok
Total Phosphorus as P *	mg/L	0.2	0.5	<0.5	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500-P (B, E)	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	15	≤50	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

Guideline : Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017).
Sampling By : Panupong Saneri ทะเบียนเลขที่ ว-204-ว-0204

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

Technical Management Suwimon C. — Suwimon Charuangwut, Scientist (3), ทะเบียนเลขที่ ว-204-ว-0018

Approved by Kanokkorn Anek, Assistant General Manager, ทะเบียนเลขที่ ว-204-ค-0004

Analysis / Test Report

TESTING No.0009

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name :
Project Location: WHA SIL

Lot ID: 2598687
Date Received : Nov 04, 2025
Date Reported : Nov 11, 2025
Report Number : 3435137-2

Page 1 of 2

Sample Number	2598687-1
Sampled Date	Nov 04, 2025 11:30 AM
Sample Description	Group 1 Wastewater WW-Plant
Location	WHA SIL : WW-RP : บ่อ Retention Pond
Date Analysis Commenced	Nov 05, 2025
Condition of Sample	Contained in one amber glass bottle and eight plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property	Green, some odour, solid and no turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Iron	mg/L	0.003	0.005	0.54	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Microbiological Testing							
Total Coliform	MPN/100mL	-	-	3300.0	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 9221 B	Bangkok
Water Testing							
Ammonia Nitrogen *	mg/L	-	0.06	0.52	No Standard	Based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500-NH3 (B, F)	Bangkok
Conductivity at 25 degree C *	micromhos/cm	-	0.5	481	No Standard	Based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2510 B	Bangkok
Dissolved Oxygen (on site) *	mg/L	-	0.1	6.3	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500-O (G)	Bangkok
Nitrate as N *	mg/L	0.06	0.2	1.08	No Standard	Based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500-NO3 E	Bangkok
Nitrite as N *	mg/L	0.06	0.2	<0.200	No Standard	Based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500-NO2 B	Bangkok

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

Approved by Sawitree Noisangiam, Manager

Analysis / Test Report

TESTING No.0009

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name :
Project Location: WHA SIL

Lot ID: 2598687
Date Received : Nov 04, 2025
Date Reported : Nov 11, 2025
Report Number : 3435137-2

Page 2 of 2

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

Approved by Sawitree Noisangiam, Manager

Analysis / Test Report

TESTING No.0009

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name :
Project Location: WHA SIL

Lot ID: 2598688
Date Received : Nov 11, 2025
Date Reported : Nov 14, 2025
Report Number : 3435155-1

Page 1 of 1

Sample Number	2598688-1
Sampled Date	Nov 11, 2025 12:50 PM
Sample Description	Group 1 Wastewater WW-Plant
Location	WHA SIL : WW-RP : บ่อ Retention Pond
Date Analysis Commenced	Nov 12, 2025
Condition of Sample	Contained in two plastic bottle, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property	Yellow, odourless, no solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
COD	mg/L	-	25	<25	≤120	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
pH (on site) *		-	-	8.4	5.5-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	13	≤50	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

Guideline : Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017).
Sampling By : Teerawat Puangsuk ทะเบียนเลขที่ ว-204-ว-0050

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

Technical Management Nanthawadee Sornboon, Specialist 2, ทะเบียนเลขที่ ว-204-ว-0010

Approved by Kanokkorn Anek, Assistant General Manager, ทะเบียนเลขที่ ว-204-ค-0004

Analysis / Test Report

TESTING No.0009

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name :
Project Location: WHA SIL

Lot ID: 2598689
Date Received : Nov 18, 2025
Date Reported : Nov 22, 2025
Report Number : 3435156-1

Page 1 of 1

Sample Number	2598689-1
Sampled Date	Nov 18, 2025 10:00 AM
Sample Description	Group 1 Wastewater WW-Plant
Location	WHA SIL : WW-RP : บ่อ Retention Pond
Date Analysis Commenced	Nov 19, 2025
Condition of Sample	Contained in two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property	Green, some odour, solid and no turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
COD	mg/L	-	25	30	≤120	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
pH (on site) *		-	-	8.5	5.5-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	14	≤50	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

Guideline : Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017).
Sampling By : Panupong Saneri ทะเบียนเลขที่ ว-204-ว-0204

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

Technical Management Suwimon C. — Suwimon Charuangwut, Scientist (3), ทะเบียนเลขที่ ว-204-ว-0018

Approved by Kanokkorn Anek, Assistant General Manager, ทะเบียนเลขที่ ว-204-ค-0004

Analysis / Test Report

TESTING No.0009

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name :
Project Location: WHA SIL

Lot ID: 2598690
Date Received : Nov 25, 2025
Date Reported : Nov 29, 2025
Report Number : 3435157-1

Page 1 of 1

Sample Number	2598690-1
Sampled Date	Nov 25, 2025 10:32 AM
Sample Description	Group 1 Wastewater WW-Plant
Location	WHA SIL : WW-RP : บ่อ Retention Pond
Date Analysis Commenced	Nov 26, 2025
Condition of Sample	Contained in two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property	Yellow, some odour, no solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
COD	mg/L	-	25	<25	≤120	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
pH (on site) *		-	-	8.2	5.5-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	13	≤50	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

Guideline : Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017).
Sampling By : Chutadet Wanh ทะเบียนเลขที่ ว-204-ว-0029

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

Technical Management Suwimon C. — Suwimon Charuangwut, Scientist (3), ทะเบียนเลขที่ ว-204-ว-0018

Approved by Kanokkorn Anek, Assistant General Manager, ทะเบียนเลขที่ ว-204-ค-0004

Analysis / Test Report

TESTING No.0009

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name :
Project Location: WHA SIL

Lot ID: 25107100
Date Received : Dec 02, 2025
Date Reported : Dec 12, 2025
Report Number : 3456214-1

Page 1 of 7

Sample Number	25107100-1
Sampled Date	Dec 02, 2025 11:30 AM
Sample Description	Group 1 Wastewater WW-Plant
Location	WHA SIL : WW-RP : บ่อ Retention Pond
Date Analysis Commenced	Dec 03, 2025
Condition of Sample	Contained in nine plastic bottles, three amber glass bottles and two glass vials, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property	Green, some odour, solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Arsenic	mg/L	0.0003	0.0005	0.002	≤0.25	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Barium	mg/L	0.0003	0.0005	0.03	≤1.0	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	≤0.03	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	0.002	≤2.0	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	≤0.25	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	0.002	≤0.2	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	0.03	≤5.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok

Technical Management Siriluk P. — Siriluk Bunnak, Section Head, ทะเบียนเลขที่ ว-204-ว-0013

Approved by Kanokkorn Anek, Assistant General Manager, ทะเบียนเลขที่ ว-204-ค-0004

Analysis / Test Report

TESTING No.0009

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name :
Project Location: WHA SIL

Lot ID: 25107100
Date Received : Dec 02, 2025
Date Reported : Dec 12, 2025
Report Number : 3456214-1

Page 2 of 7

Sample Number	25107100-1
Sampled Date	Dec 02, 2025 11:30 AM
Sample Description	Group 1 Wastewater WW-Plant
Location	WHA SIL : WW-RP : บ่อ Retention Pond
Date Analysis Commenced	Dec 03, 2025
Condition of Sample	Contained in nine plastic bottles, three amber glass bottles and two glass vials, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property	Green, some odour, solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Mercury *	mg/L	0.0001	0.0005	Not Detected	≤0.005	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3112	Bangkok
Nickel	mg/L	0.0003	0.0005	0.01	≤1.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Selenium	mg/L	0.0003	0.0005	<0.0005	≤0.02	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Trivalent Chromium *	mg/L	-	0.01	<0.01	≤0.75	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Zinc	mg/L	0.003	0.005	0.03	≤5.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Pesticides - Organochlorine Group							
2,4-DDD *	ug/L	0.01	0.02	Not Detected	Not Detected	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 6630 D, part 6410 B	Bangkok
2,4-DDE *	ug/L	0.01	0.02	Not Detected	Not Detected	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 6630 D, part 6410 B	Bangkok

Technical Management Siriluk P. — Siriluk Bunnak, Section Head, ทะเบียนเลขที่ ว-204-ว-0013

Approved by Kanokkorn Anek, Assistant General Manager, ทะเบียนเลขที่ ว-204-ค-0004

ALS — Analysis / Test Report

TESTING No.0009

Lot ID: 25107100

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name :
Project Location: WHA SIL

Date Received : Dec 02, 2025
Date Reported : Dec 12, 2025
Report Number : 3456214-1

Sample Number	25107100-1
Sampled Date	Dec 02, 2025 11:30 AM
Sample Description	Group 1 Wastewater WW-Plant
Location	WHA SIL : WW-RP : ye Retention Pond
Date Analysis Commenced	Dec 03, 2025
Condition of Sample	Contained in nine plastic bottles, three amber glass bottles and two glass vials, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property	Green, some odour, solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Pesticides - Organochlorine Group							
2,4-DDT *	ug/L	0.01	0.02	Not Detected	Not Detected	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 6630 D, part 6410 B	Bangkok
4,4-DDD *	ug/L	0.01	0.02	Not Detected	Not Detected	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 6630 D, part 6410 B	Bangkok
4,4-DDE *	ug/L	0.01	0.02	Not Detected	Not Detected	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 6630 D, part 6410 B	Bangkok
4,4-DDT *	ug/L	0.01	0.02	Not Detected	Not Detected	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 6630 D, part 6410 B	Bangkok
Aldrin *	ug/L	0.01	0.02	Not Detected	Not Detected	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 6630 D, part 6410 B	Bangkok
alpha-BHC *	ug/L	0.01	0.02	Not Detected	Not Detected	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 6630 D, part 6410 B	Bangkok
beta-BHC *	ug/L	0.01	0.02	Not Detected	Not Detected	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 6630 D, part 6410 B	Bangkok

Technical Management Siriluk P. — Siriluk Bunnak, Section Head, ทะเบียนเลขที่ ว-204-ว-0013
Approved by Kanokkorn Anek — Kanokkorn Anek, Assistant General Manager, ทะเบียนเลขที่ ว-204-ต-0004

ALS — Analysis / Test Report

TESTING No.0009

Lot ID: 25107100

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name :
Project Location: WHA SIL

Date Received : Dec 02, 2025
Date Reported : Dec 12, 2025
Report Number : 3456214-1

Sample Number	25107100-1
Sampled Date	Dec 02, 2025 11:30 AM
Sample Description	Group 1 Wastewater WW-Plant
Location	WHA SIL : WW-RP : ye Retention Pond
Date Analysis Commenced	Dec 03, 2025
Condition of Sample	Contained in nine plastic bottles, three amber glass bottles and two glass vials, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property	Green, some odour, solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Pesticides - Organochlorine Group							
Chlordane *	ug/L	0.02	0.04	Not Detected	Not Detected	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 6630 D, part 6410 B	Bangkok
delta-BHC *	ug/L	0.01	0.02	Not Detected	Not Detected	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 6630 D, part 6410 B	Bangkok
Dieldrin *	ug/L	0.01	0.02	Not Detected	Not Detected	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 6630 D, part 6410 B	Bangkok
Endosulfan I *	ug/L	0.01	0.02	Not Detected	Not Detected	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 6630 D, part 6410 B	Bangkok
Endosulfan II *	ug/L	0.01	0.02	Not Detected	Not Detected	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 6630 D, part 6410 B	Bangkok
Endrin *	ug/L	0.01	0.02	Not Detected	Not Detected	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 6630 D, part 6410 B	Bangkok
Heptachlor *	ug/L	0.01	0.02	Not Detected	Not Detected	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 6630 D, part 6410 B	Bangkok

Technical Management Siriluk P. — Siriluk Bunnak, Section Head, ทะเบียนเลขที่ ว-204-ว-0013
Approved by Kanokkorn Anek — Kanokkorn Anek, Assistant General Manager, ทะเบียนเลขที่ ว-204-ต-0004

ALS — Analysis / Test Report

TESTING No.0009

Lot ID: 25107100

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name :
Project Location: WHA SIL

Date Received : Dec 02, 2025
Date Reported : Dec 12, 2025
Report Number : 3456214-1

Sample Number	25107100-1
Sampled Date	Dec 02, 2025 11:30 AM
Sample Description	Group 1 Wastewater WW-Plant
Location	WHA SIL : WW-RP : ye Retention Pond
Date Analysis Commenced	Dec 03, 2025
Condition of Sample	Contained in nine plastic bottles, three amber glass bottles and two glass vials, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property	Green, some odour, solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Pesticides - Organochlorine Group							
Heptachlor-Epoxide *	ug/L	0.01	0.02	Not Detected	Not Detected	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 6630 D, part 6410 B	Bangkok
Lindane (gamma-BHC) *	ug/L	0.01	0.02	Not Detected	Not Detected	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 6630 D, part 6410 B	Bangkok
Methoxychlor *	ug/L	0.01	0.02	Not Detected	Not Detected	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 6630 D, part 6410 B	Bangkok
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2.0	8.8	≤20	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Bangkok
COD	mg/L	-	25	50	≤120	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
Color (at Original pH)	ADMI	-	5	16	≤300	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2120 F	Bangkok
Color (at pH 7.0)	ADMI	-	5	17	≤300	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2120 F	Bangkok

Technical Management Siriluk P. — Siriluk Bunnak, Section Head, ทะเบียนเลขที่ ว-204-ว-0013
Approved by Kanokkorn Anek — Kanokkorn Anek, Assistant General Manager, ทะเบียนเลขที่ ว-204-ต-0004

ALS — Analysis / Test Report

TESTING No.0009

Lot ID: 25107100

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name :
Project Location: WHA SIL

Date Received : Dec 02, 2025
Date Reported : Dec 12, 2025
Report Number : 3456214-1

Sample Number	25107100-1
Sampled Date	Dec 02, 2025 11:30 AM
Sample Description	Group 1 Wastewater WW-Plant
Location	WHA SIL : WW-RP : ye Retention Pond
Date Analysis Commenced	Dec 03, 2025
Condition of Sample	Contained in nine plastic bottles, three amber glass bottles and two glass vials, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property	Green, some odour, solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Cyanide as CN	mg/L	0.002	0.005	<0.005	≤0.2	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - CN (C, E)	Bangkok
Formaldehyde	mg/L	0.03	0.1	Not Detected	≤1.0	Wastewater analysis manual, Environmental Engineering Association of Thailand, 4th ed., 2004	Bangkok
Oil & Grease	mg/L	-	3	<3	≤5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Bangkok
pH (on site) *	-	-	-	8.8	5.5-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Phenol	mg/L	0.005	0.01	Not Detected	≤1.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5530 D	Bangkok
Residual Free Chlorine *	mg/L	-	0.1	<0.1	≤1.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-Cl (F)	Bangkok
Sulfide *	mg/L	-	0.5	<0.5	≤1.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-S2 (C, F)	Bangkok
Temperature *	Degree C	-	-	28.0	≤40	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Bangkok

Technical Management Siriluk P. — Siriluk Bunnak, Section Head, ทะเบียนเลขที่ ว-204-ว-0013
Approved by Kanokkorn Anek — Kanokkorn Anek, Assistant General Manager, ทะเบียนเลขที่ ว-204-ต-0004

ALS — Analysis / Test Report

TESTING No.0009

Lot ID: 25107100

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name :
Project Location: WHA SIL

Date Received : Dec 02, 2025
Date Reported : Dec 12, 2025
Report Number : 3456214-1

Sample Number	25107100-1
Sampled Date	Dec 02, 2025 11:30 AM
Sample Description	Group 1 Wastewater WW-Plant
Location	WHA SIL : WW-RP : ye Retention Pond
Date Analysis Commenced	Dec 03, 2025
Condition of Sample	Contained in nine plastic bottles, three amber glass bottles and two glass vials, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property	Green, some odour, solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Total Dissolved solids Dried at 180 degree C	mg/L	-	5	896	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Bangkok
Total Kjeldahl Nitrogen as N *	mg/L	0.15	1.0	4.5	≤100	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-Norg (C)	Bangkok
Total Phosphorus as P *	mg/L	0.2	0.5	1.8	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-P (B, E)	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	14	≤50	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

Guideline : Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017).
Sampling By : Teerawat Puangsok ทะเบียนเลขที่ ว-204-ว-0058

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

Technical Management Siriluk P. — Siriluk Bunnak, Section Head, ทะเบียนเลขที่ ว-204-ว-0013
Approved by Kanokkorn Anek — Kanokkorn Anek, Assistant General Manager, ทะเบียนเลขที่ ว-204-ต-0004

ALS — Analysis / Test Report

TESTING No.0009

Lot ID: 25107100

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name :
Project Location: WHA SIL

Date Received : Dec 02, 2025
Date Reported : Dec 12, 2025
Report Number : 3456214-2

Sample Number	25107100-1
Sampled Date	Dec 02, 2025 11:30 AM
Sample Description	Group 1 Wastewater WW-Plant
Location	WHA SIL : WW-RP : ye Retention Pond
Date Analysis Commenced	Dec 03, 2025
Condition of Sample	Contained in nine plastic bottles, three amber glass bottles and two glass vials, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property	Green, some odour, solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Iron	mg/L	0.003	0.005	0.05	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Silver	mg/L	0.0003	0.0005	Not Detected	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Microbiological Testing							
Total Coliform	MPN/100mL	-	-	1300.0	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 9221 B	Bangkok
Pesticides - Organochlorine Group							
alpha-Chlordane *	ug/L	0.01	0.02	Not Detected	Not Detected	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 6630 D, part 6410 B	Bangkok
gamma-Chlordane *	ug/L	0.01	0.02	Not Detected	Not Detected	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 6630 D, part 6410 B	Bangkok
Hexachlorobenzene *	ug/L	0.01	0.02	Not Detected	Not Detected	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 6630 D, part 6410 B	Bangkok
Mirex *	ug/L	0.01	0.02	Not Detected	Not Detected	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 6630 D, part 6410 B	Bangkok
Water Testing							

Approved by Sithichok T. — Sithichok Thongnguen, Scientist (3)

ALS — Analysis / Test Report

TESTING No.0009

Lot ID: 25107100

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name :
Project Location: WHA SIL

Date Received : Dec 02, 2025
Date Reported : Dec 12, 2025
Report Number : 3456214-2

Sample Number	25107100-1
Sampled Date	Dec 02, 2025 11:30 AM
Sample Description	Group 1 Wastewater WW-Plant
Location	WHA SIL : WW-RP : ye Retention Pond
Date Analysis Commenced	Dec 03, 2025
Condition of Sample	Contained in nine plastic bottles, three amber glass bottles and two glass vials, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property	Green, some odour, solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Ammonia Nitrogen *	mg/L	-	0.06	0.65	No Standard	Based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-NH3 (B, F)	Bangkok
Conductivity at 25 degree C *	micromhos/cm	-	0.5	1520	No Standard	Based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2510 B	Bangkok
Dissolved Oxygen (on site) *	mg/L	-	0.1	14.5	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-O (G)	Bangkok
Nitrate as N *	mg/L	0.06	0.2	0.64	No Standard	Based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-NO3 E	Bangkok
Nitrite as N *	mg/L	0.06	0.2	<0.200	No Standard	Based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-NO2 B	Bangkok

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

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

Approved by Sithichok T. — Sithichok Thongnguen, Scientist (3)

ALS — Analysis / Test Report

TESTING No.0009

Lot ID: 25107102

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name :
Project Location: WHA SIL

Date Received : Dec 09, 2025
Date Reported : Dec 15, 2025
Report Number : 3456229-1

Sample Number	25107102-1
Sampled Date	Dec 09, 2025 12:10 PM
Sample Description	Group 1 Wastewater WW-Plant
Location	WHA SIL : WW-RP : ye Retention Pond
Date Analysis Commenced	Dec 11, 2025
Condition of Sample	Contained in two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property	Green, some odour, solid, and no turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
COD	mg/L	-	25	<25	≤120	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
pH (on site) *		-	-	7.7	5.5-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	11	≤50	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

Guideline : Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017).
Sampling By : Panupong Saeset ทะเบียนเลขที่ ว-204-ว-0204

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

Technical Management Suwimon C. — Suwimon Chainangpost, Scientist (3), ทะเบียนเลขที่ ว-204-ว-0018
Approved by Kanokkorn Anek — Kanokkorn Anek, Assistant General Manager, ทะเบียนเลขที่ ว-204-ต-0004

ALS — Analysis / Test Report

TESTING No.0009

Lot ID: 25107103

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name :
Project Location: WHA SIL

Date Received : Dec 16, 2025
Date Reported : Dec 22, 2025
Report Number : 3456233-1

Sample Number	25107103-1
Sampled Date	Dec 16, 2025 11:50 AM
Sample Description	Group 1 Wastewater WW-Plant
Location	WHA SIL : WW-RP : ye Retention Pond
Date Analysis Commenced	Dec 17, 2025
Condition of Sample	Contained in two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property	Green, some odour, solid, and no turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
COD	mg/L	-	25	54	≤120	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
pH (on site) *		-	-	8.8	5.5-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	16	≤50	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

Guideline : Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017).
Sampling By : Panupong Saeset ทะเบียนเลขที่ ว-204-ว-0204

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

Technical Management Siriluk P. — Siriluk Bunnak, Section Head, ทะเบียนเลขที่ ว-204-ว-0013
Approved by Kanokkorn Anek — Kanokkorn Anek, Assistant General Manager, ทะเบียนเลขที่ ว-204-ต-0004

Analysis / Test Report

TESTING
No.0009

Lot ID: 25107104
Date Received : Dec 23, 2025
Date Reported : Dec 26, 2025
Report Number : 3456236-1

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakrad Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name :
Project Location: WHA SZL

Sample Number 25107104-1
Sampled Date Dec 23, 2025 12:10 PM
Sample Description Group 1 Wastewater WW-Plant
Location WHA SZL : WW-RP : ss Retention Pond
Date Analysis Commenced Dec 24, 2025
Condition of Sample Contained in two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property Green, some odour, no solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
COD	mg/L	-	25	81	≤120	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
pH (on site) *		-	-	8.3	5.5-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	17	≤50	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

Guideline : Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017).
Sampling By : Teeravat Puangruk หน่วยงานที่ ว-204-ว-0058

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

Technical Management — Narin Saiseng, Supervisor, หน่วยงานที่ ว-204-ว-0009

Approved by — Kanokkorn Anek, Assistant General Manager, หน่วยงานที่ ว-204-ว-0004

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

Lot ID: 25107105
Date Received : Dec 29, 2025
Date Reported : Jan 06, 2026
Report Number : 3456239-1

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakrad Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name :
Project Location: WHA SZL

Sample Number 25107105-1
Sampled Date Dec 29, 2025 11:55 AM
Sample Description Group 1 Wastewater WW-Plant
Location WHA SZL : WW-RP : ss Retention Pond
Date Analysis Commenced Dec 30, 2025
Condition of Sample Contained in two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property Yellow, odourless, no solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
COD	mg/L	-	25	39	≤120	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
pH (on site) *		-	-	8.6	5.5-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	19	≤50	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

Guideline : Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017).
Sampling By : Panupong Saenon หน่วยงานที่ ว-204-ว-0204

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

Technical Management — Narin Saiseng, Supervisor, หน่วยงานที่ ว-204-ว-0009

Approved by — Kanokkorn Anek, Assistant General Manager, หน่วยงานที่ ว-204-ว-0004

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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ภาคผนวก ค-6

คุณภาพน้ำทิ้ง (โรงงานอุตสาหกรรม)

Analysis / Test Report

TESTING No.0009

Lot ID: 2559786
Date Received : Jul 03, 2025
Date Reported : Jul 11, 2025
Report Number : 3340883-1

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name : Factory I Monthly
Project Location: WHA SIL

Page 1 of 1

Sample Number	2559786-1
Sampled Date	Jul 03, 2025 10:35 AM
Sample Description	Group 2 Wastewater WW-CT
Contract ID	SIL_001_2554 **Plot** 1 **Site** Air Liquide (Thailand) Co.,Ltd.
Date Analysis Commenced	Jul 04, 2025
Condition of Sample	Contained in one amber glass bottle and three plastic bottles. sample containers comply to pretreatment - preservation standards (APHA/USEPA)
Physical Property	Yellow, some odour, solid and no turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2.0	5.4	≤500	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Bangkok
COD	mg/L	-	25	38	≤750	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Bangkok
pH (on site) *		-	-	8.1	5.5-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Temperature *	Degree C	-	-	31.6	≤45	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	6	≤200	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

Guideline : Standard of WHA Saraburi Industrial Land, Maximum levels for wastewater discharging to central wastewater treatment plant.
Sampling By : Panupong Sanet ทะเบียนเลขที่ ว-204-ว-0204

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

Technical Management Siriluk P. — Siriluk Bunnak, Section Head, ทะเบียนเลขที่ ว-204-ว-0013
Approved by Kanokkorn Anek, Assistant General Manager, ทะเบียนเลขที่ ว-204-ค-0004

Analysis / Test Report

TESTING No.0009

Lot ID: 2559820
Date Received : Jul 02, 2025
Date Reported : Jul 09, 2025
Report Number : 3340775-1

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name : Factory I Monthly
Project Location: WHA SIL

Page 1 of 1

Sample Number	2559820-1
Sampled Date	Jul 02, 2025 9:20 AM
Sample Description	Group 2 Wastewater WW-CT
Contract ID	SIL_043_2556 **Plot** 93D **Site** Daiyu Seat (Thailand) Co.,Ltd.
Date Analysis Commenced	Jul 03, 2025
Condition of Sample	Contained in one amber glass bottle and three plastic bottles. sample containers comply to pretreatment - preservation standards (APHA/USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2.0	5.5	≤500	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Bangkok
COD	mg/L	-	25	43	≤750	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
Oil & Grease	mg/L	-	3	5	≤10	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Bangkok
pH (on site) *		-	-	7.6	5.5-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Temperature *	Degree C	-	-	29.0	≤45	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	47	≤200	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

Guideline : Standard of WHA Saraburi Industrial Land, Maximum levels for wastewater discharging to central wastewater treatment plant.
Sampling By : Panupong Sanet ทะเบียนเลขที่ ว-204-ว-0204

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

Technical Management Siriluk P. — Siriluk Bunnak, Section Head, ทะเบียนเลขที่ ว-204-ว-0013
Approved by Kanokkorn Anek, Assistant General Manager, ทะเบียนเลขที่ ว-204-ค-0004

Analysis / Test Report

TESTING No.0009

Lot ID: 2559846
Date Received : Jul 02, 2025
Date Reported : Jul 09, 2025
Report Number : 3340806-1

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name : Factory I Monthly
Project Location: WHA SIL

Page 1 of 1

Sample Number	2559846-1
Sampled Date	Jul 02, 2025 11:30 AM
Sample Description	Group 2 Wastewater WW-CT
Contract ID	SIL_004_2560 **Plot** 48,84 **Site** D-HAPPENING COMPANY LIMITED
Date Analysis Commenced	Jul 03, 2025
Condition of Sample	Contained in one amber glass bottle and three plastic bottles. sample containers comply to pretreatment - preservation standards (APHA/USEPA)
Physical Property	Yellow, some odour, solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2.0	3.1	≤500	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Bangkok
COD	mg/L	-	25	52	≤750	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Bangkok
pH (on site) *		-	-	7.9	5.5-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Temperature *	Degree C	-	-	30.0	≤45	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	166	≤200	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

Guideline : Standard of WHA Saraburi Industrial Land, Maximum levels for wastewater discharging to central wastewater treatment plant.
Sampling By : Panupong Sanet ทะเบียนเลขที่ ว-204-ว-0204

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

Technical Management Siriluk P. — Siriluk Bunnak, Section Head, ทะเบียนเลขที่ ว-204-ว-0013
Approved by Kanokkorn Anek, Assistant General Manager, ทะเบียนเลขที่ ว-204-ค-0004

Analysis / Test Report

TESTING No.0009

Lot ID: 2559790
Date Received : Jul 02, 2025
Date Reported : Jul 09, 2025
Report Number : 3340738-1

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name : Factory I Monthly
Project Location: WHA SIL

Page 1 of 1

Sample Number	2559790-1
Sampled Date	Jul 02, 2025 9:45 AM
Sample Description	Group 2 Wastewater WW-CT
Contract ID	SIL_003_2554 **Plot** 54 **Site** D-Rubber Products Co.,Ltd.
Date Analysis Commenced	Jul 03, 2025
Condition of Sample	Contained in one amber glass bottle and three plastic bottles. sample containers comply to pretreatment - preservation standards (APHA/USEPA)
Physical Property	Yellow, a lot of odour, solid, and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2.0	97.4	≤500	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Bangkok
COD	mg/L	-	25	185	≤750	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
Oil & Grease	mg/L	-	3	4	≤10	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Bangkok
pH (on site) *		-	-	5.9	5.5-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Temperature *	Degree C	-	-	32.2	≤45	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	47	≤200	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

Guideline : Standard of WHA Saraburi Industrial Land, Maximum levels for wastewater discharging to central wastewater treatment plant.
Sampling By : Teerawat Puangsuk ทะเบียนเลขที่ ว-204-ว-0058

Remark :
- LOD : Limit of Detection
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- Sampling is not included in scope of accreditation ISO/IEC 17025

Technical Management Siriluk P. — Siriluk Bunnak, Section Head, ทะเบียนเลขที่ ว-204-ว-0013
Approved by Kanokkorn Anek, Assistant General Manager, ทะเบียนเลขที่ ว-204-ค-0004

Analysis / Test Report

TESTING No.0009

Lot ID: 2559791
Date Received : Jul 09, 2025
Date Reported : Jul 17, 2025
Report Number : 3340739-1

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name : Factory I Monthly
Project Location: WHA SIL

Page 1 of 1

Sample Number	2559791-1
Sampled Date	Jul 09, 2025 10:50 AM
Sample Description	Group 2 Wastewater WW-CT
Contract ID	SIL_004_2554 **Plot** 39 **Site** DSG International (Thailand) PLC.
Date Analysis Commenced	Jul 09, 2025
Condition of Sample	Contained in one amber glass bottle and three plastic bottles. sample containers comply to pretreatment - preservation standards (APHA/USEPA)
Physical Property	Yellow, some odour, solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2.0	18.8	≤500	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Bangkok
COD	mg/L	-	25	81	≤750	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Bangkok
pH (on site) *		-	-	7.5	5.5-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Temperature *	Degree C	-	-	32.8	≤45	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	14	≤200	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

Guideline : Standard of WHA Saraburi Industrial Land, Maximum levels for wastewater discharging to central wastewater treatment plant.
Sampling By : Panupong Sanet ทะเบียนเลขที่ ว-204-ว-0204

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

Technical Management Suwimon C. — Suwimon Chairsangmut, Scientist (3), ทะเบียนเลขที่ ว-204-ว-0018
Approved by Kanokkorn Anek, Assistant General Manager, ทะเบียนเลขที่ ว-204-ค-0004

Analysis / Test Report

TESTING No.0009

Lot ID: 2559812
Date Received : Jul 09, 2025
Date Reported : Jul 17, 2025
Report Number : 3340765-1

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name : Factory I Monthly
Project Location: WHA SIL

Page 1 of 1

Sample Number	2559812-1
Sampled Date	Jul 09, 2025 11:30 AM
Sample Description	Group 2 Wastewater WW-CT
Contract ID	SIL_031_2555 **Plot** 148 **Site** FTN (Saraburi) Co.,Ltd
Date Analysis Commenced	Jul 09, 2025
Condition of Sample	Contained in one amber glass bottle and three plastic bottles. sample containers comply to pretreatment - preservation standards (APHA/USEPA)
Physical Property	Yellow, some odour, solid and no turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2.0	4.2	≤500	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Bangkok
COD	mg/L	-	25	26	≤750	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Bangkok
pH (on site) *		-	-	7.6	5.5-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Temperature *	Degree C	-	-	31.2	≤45	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	6	≤200	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

Guideline : Standard of WHA Saraburi Industrial Land, Maximum levels for wastewater discharging to central wastewater treatment plant.
Sampling By : Panupong Sanet ทะเบียนเลขที่ ว-204-ว-0204

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

Technical Management Suwimon C. — Suwimon Chairsangmut, Scientist (3), ทะเบียนเลขที่ ว-204-ว-0018
Approved by Kanokkorn Anek, Assistant General Manager, ทะเบียนเลขที่ ว-204-ค-0004

Analysis / Test Report

TESTING No.0009

Lot ID: 2559792
Date Received : Jul 09, 2025
Date Reported : Jul 17, 2025
Report Number : 3340740-1

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name : Factory I Monthly
Project Location: WHA SIL

Page 1 of 1

Sample Number	2559792-1
Sampled Date	Jul 09, 2025 11:00 AM
Sample Description	Group 2 Wastewater WW-CT
Contract ID	SIL_005_2554 **Plot** 77,78 **Site** Fujikoki Corporation
Date Analysis Commenced	Jul 09, 2025
Condition of Sample	Contained in one amber glass bottle and three plastic bottles. sample containers comply to pretreatment - preservation standards (APHA/USEPA)
Physical Property	Yellow, some odour, solid and no turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2.0	2.7	≤500	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Bangkok
COD	mg/L	-	25	<25	≤750	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Bangkok
pH (on site) *		-	-	7.7	5.5-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Temperature *	Degree C	-	-	31.6	≤45	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	5	≤200	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

Guideline : Standard of WHA Saraburi Industrial Land, Maximum levels for wastewater discharging to central wastewater treatment plant.
Sampling By : Panupong Sanet ทะเบียนเลขที่ ว-204-ว-0204

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Technical Management Suwimon C. — Suwimon Chairsangmut, Scientist (3), ทะเบียนเลขที่ ว-204-ว-0018
Approved by Kanokkorn Anek, Assistant General Manager, ทะเบียนเลขที่ ว-204-ค-0004

Analysis / Test Report

TESTING No.0009

Lot ID: 2559793
Date Received : Jul 03, 2025
Date Reported : Jul 11, 2025
Report Number : 3340741-1

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name : Factory I Monthly
Project Location: WHA SIL

Page 1 of 1

Sample Number	2559793-1
Sampled Date	Jul 03, 2025 1:45 PM
Sample Description	Group 2 Wastewater WW-CT
Contract ID	SIL_006_2554 **Plot** 2 **Site** Guardian Industries Corp Ltd.
Location	Point 1
Date Analysis Commenced	Jul 04, 2025
Condition of Sample	Contained in one amber glass bottle and three plastic bottles. sample containers comply to pretreatment - preservation standards (APHA/USEPA)
Physical Property	Yellow, some odour, solid and no turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2.0	<2.0	≤500	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Bangkok
COD	mg/L	-	25	48	≤750	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Bangkok
pH (on site) *		-	-	7.6	5.5-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Temperature *	Degree C	-	-	35.7	≤45	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	<5	≤200	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

Guideline : Standard of WHA Saraburi Industrial Land, Maximum levels for wastewater discharging to central wastewater treatment plant.
Sampling By : Panupong Sanet ทะเบียนเลขที่ ว-204-ว-0204

Remark :
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Technical Management Siriluk P. — Siriluk Bunnak, Section Head, ทะเบียนเลขที่ ว-204-ว-0013
Approved by Kanokkorn Anek, Assistant General Manager, ทะเบียนเลขที่ ว-204-ค-0004

Analysis / Test Report

TESTING No.0009

Lot ID: 2559794
Date Received : Jul 03, 2025
Date Reported : Jul 11, 2025
Report Number : 3340742-1

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name : Factory I Monthly
Project Location: WHA SIL

Page 1 of 1

Sample Number	2559794-1
Sampled Date	Jul 03, 2025 1:50 PM
Sample Description	Group 2 Wastewater WW-CT
Contract ID	SIL_007_2554 **Plot** 2 **Site** Guardian Industries Corp Ltd
Location	Point 2
Date Analysis Commenced	Jul 04, 2025
Condition of Sample	Contained in one amber glass bottle and three plastic bottles. sample containers comply to pretreatment - preservation standards (APHA/USEPA)
Physical Property	Yellow, some odour, solid and no turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2.0	9.4	≤500	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Bangkok
COD	mg/L	-	25	49	≤750	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Bangkok
pH (on site) *		-	-	7.4	5.5-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Temperature *	Degree C	-	-	30.7	≤45	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	18	≤200	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

Guideline : Standard of WHA Saraburi Industrial Land, Maximum levels for wastewater discharging to central wastewater treatment plant.
Sampling By : Panupong Sanet ทะเบียนเลขที่ ว-204-ว-0204

Remark :
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Technical Management Siriluk P. — Siriluk Bunnak, Section Head, ทะเบียนเลขที่ ว-204-ว-0013
Approved by Kanokkorn Anek, Assistant General Manager, ทะเบียนเลขที่ ว-204-ค-0004

Analysis / Test Report

TESTING No.0009

Lot ID: 2559795
Date Received : Jul 03, 2025
Date Reported : Jul 11, 2025
Report Number : 3340744-1

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name : Factory I Monthly
Project Location : WHA SIL

Sample Number	2559795-1
Sampled Date	Jul 03, 2025 1:40 PM
Sample Description	Group 2 Wastewater WW-CT
Contract ID	SIL_008_2554 **Plot** 2 **Site** Guardian Industries Corp Ltd
Location	Point 3
Date Analysis Commenced	Jul 04, 2025
Condition of Sample	Contained in one amber glass bottle and three plastic bottles. sample containers comply to pretreatment - preservation standards (APHA/USEPA)
Physical Property	Yellow, some odour, solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2.0	<2.0	≤500	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Bangkok
COD	mg/L	-	25	58	≤750	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Bangkok
pH (on site) *		-	-	7.9	5.5-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Temperature *	Degree C	-	-	31.4	≤45	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	31	≤200	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

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

Sampling By : Panupong Sanei ทะเบียนเลขที่ ว-204-ว-0204

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

Technical Management Siriluk P. — Siriluk Bunnak, Section Head, ทะเบียนเลขที่ ว-204-ว-0013

Approved by Kanokkorn Anek, Assistant General Manager, ทะเบียนเลขที่ ว-204-ล-0004

Analysis / Test Report

TESTING No.0009

Lot ID: 2559887
Date Received : Jul 03, 2025
Date Reported : Jul 11, 2025
Report Number : 3340871-1

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name : Factory I Monthly
Project Location : WHA SIL

Sample Number	2559887-1
Sampled Date	Jul 03, 2025 10:10 AM
Sample Description	Group 2 Wastewater WW-CT
Contract ID	SIL_072_2557 **Plot** 88 **Site** Gulf JP NK2 Co.,Ltd
Date Analysis Commenced	Jul 04, 2025
Condition of Sample	Contained in one amber glass bottle and four plastic bottles. sample containers comply to pretreatment - preservation standards (APHA/USEPA)
Physical Property	Yellow, some odour, solid and no turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Hexavalent Chromium	mg/L	0.003	0.01	Not Detected	≤0.25	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3500-Cr B	Bangkok
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2.0	<2.0	≤500	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Bangkok
COD	mg/L	-	25	52	≤750	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Bangkok
pH (on site) *		-	-	7.7	5.5-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Temperature *	Degree C	-	-	29.9	≤45	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	1432	≤3000	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	<5	≤200	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

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

Technical Management Siriluk P. — Siriluk Bunnak, Section Head, ทะเบียนเลขที่ ว-204-ว-0013

Approved by Kanokkorn Anek, Assistant General Manager, ทะเบียนเลขที่ ว-204-ล-0004

Analysis / Test Report

TESTING No.0009

Lot ID: 2559887
Date Received : Jul 03, 2025
Date Reported : Jul 11, 2025
Report Number : 3340871-1

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name : Factory I Monthly
Project Location : WHA SIL

Sampling By : Panupong Sanei ทะเบียนเลขที่ ว-204-ว-0204

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

Technical Management Siriluk P. — Siriluk Bunnak, Section Head, ทะเบียนเลขที่ ว-204-ว-0013

Approved by Kanokkorn Anek, Assistant General Manager, ทะเบียนเลขที่ ว-204-ล-0004

Analysis / Test Report

Lot ID: 2559887
Date Received : Jul 03, 2025
Date Reported : Jul 11, 2025
Report Number : 3340871-2

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name : Factory I Monthly
Project Location : WHA SIL

Sample Number	2559887-1
Sampled Date	Jul 03, 2025 10:10 AM
Sample Description	Group 2 Wastewater WW-CT
Contract ID	SIL_072_2557 **Plot** 88 **Site** Gulf JP NK2 Co.,Ltd
Date Analysis Commenced	Jul 04, 2025
Condition of Sample	Contained in one amber glass bottle and four plastic bottles. sample containers comply to pretreatment - preservation standards (APHA/USEPA)
Physical Property	Yellow, some odour, solid and no turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Conductivity at 25 degree C	micromhos/cm	-	0.5	1988	No Standard	Based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2510 B	Bangkok

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

Sampling By : Panupong Sanei

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

Approved by Siriluk P. — Siriluk Bunnak, Section Head

Analysis / Test Report

TESTING No.0009

Lot ID: 2559895
Date Received : Jul 03, 2025
Date Reported : Jul 11, 2025
Report Number : 3340882-1

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name : Factory I Monthly
Project Location : WHA SIL

Sample Number	2559895-1
Sampled Date	Jul 03, 2025 9:50 AM
Sample Description	Group 2 Wastewater WW-CT
Contract ID	SIL_004_2562 **Plot** 131 **Site** Gulf NPM Co.,Ltd
Date Analysis Commenced	Jul 04, 2025
Condition of Sample	Contained in one amber glass bottle and three plastic bottles. sample containers comply to pretreatment - preservation standards (APHA/USEPA)
Physical Property	Yellow, some odour, solid and no turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2.0	14.1	≤500	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Bangkok
COD	mg/L	-	25	66	≤750	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Bangkok
pH (on site) *		-	-	7.8	5.5-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Temperature *	Degree C	-	-	30.0	≤45	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	2332	≤3000	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	10	≤200	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

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

Sampling By : Panupong Sanei ทะเบียนเลขที่ ว-204-ว-0204

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

Technical Management Suwimon C. — Suwimon Chaisangpet, Scientist (3), ทะเบียนเลขที่ ว-204-ว-0018

Approved by Kanokkorn Anek, Assistant General Manager, ทะเบียนเลขที่ ว-204-ล-0004

Analysis / Test Report

TESTING No.0009

Lot ID: 2559895
Date Received : Jul 03, 2025
Date Reported : Jul 11, 2025
Report Number : 3340882-1

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name : Factory I Monthly
Project Location : WHA SIL

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

Technical Management Suwimon C. — Suwimon Chaisangpet, Scientist (3), ทะเบียนเลขที่ ว-204-ว-0018

Approved by Kanokkorn Anek, Assistant General Manager, ทะเบียนเลขที่ ว-204-ล-0004

Analysis / Test Report

TESTING No.0009

Lot ID: 2559893
Date Received : Jul 02, 2025
Date Reported : Jul 09, 2025
Report Number : 3340878-1

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name : Factory I Monthly
Project Location : WHA SIL

Sample Number	2559893-1
Sampled Date	Jul 02, 2025 1:25 PM
Sample Description	Group 2 Wastewater WW-CT
Contract ID	SIL_032_2556 **Plot** 149 **Site** Hygenie (Thailand) Co.,Ltd. (1st)
Date Analysis Commenced	Jul 03, 2025
Condition of Sample	Contained in one amber glass bottle and three plastic bottles. sample containers comply to pretreatment - preservation standards (APHA/USEPA)
Physical Property	Colorless, some odour, solid, and no turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2.0	<2.0	≤500	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Bangkok
COD	mg/L	-	25	<25	≤750	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Bangkok
pH (on site) *		-	-	7.8	5.5-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Temperature *	Degree C	-	-	29.6	≤45	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	896	≤3000	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	<5	≤200	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

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

Sampling By : Panupong Sanei ทะเบียนเลขที่ ว-204-ว-0204

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

Technical Management Siriluk P. — Siriluk Bunnak, Section Head, ทะเบียนเลขที่ ว-204-ว-0013

Approved by Kanokkorn Anek, Assistant General Manager, ทะเบียนเลขที่ ว-204-ล-0004

Analysis / Test Report

TESTING No.0009

Lot ID: 2559893
Date Received : Jul 02, 2025
Date Reported : Jul 09, 2025
Report Number : 3340878-1

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name : Factory I Monthly
Project Location : WHA SIL

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

Technical Management Siriluk P. — Siriluk Bunnak, Section Head, ทะเบียนเลขที่ ว-204-ว-0013

Approved by Kanokkorn Anek, Assistant General Manager, ทะเบียนเลขที่ ว-204-ล-0004

Analysis / Test Report

TESTING No.0009

Lot ID: 2559894
Date Received : Jul 09, 2025
Date Reported : Jul 17, 2025
Report Number : 3340881-1

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name : Factory I Monthly
Project Location : WHA SIL

Sample Number	2559894-1
Sampled Date	Jul 09, 2025 11:20 AM
Sample Description	Group 2 Wastewater WW-CT
Contract ID	SIL_032_2556 **Plot** 149 **Site** Hygenie (Thailand) Co.,Ltd. (2nd)
Date Analysis Commenced	Jul 10, 2025
Condition of Sample	Contained in one amber glass bottle and three plastic bottles. sample containers comply to pretreatment - preservation standards (APHA/USEPA)
Physical Property	Colorless, some odour, solid and no turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2.0	2.9	≤500	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Bangkok
COD	mg/L	-	25	<25	≤750	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Bangkok
pH (on site) *		-	-	8.5	5.5-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Temperature *	Degree C	-	-	33.7	≤45	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	820	≤3000	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	<5	≤200	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

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

Sampling By : Panupong Sanei ทะเบียนเลขที่ ว-204-ว-0204

Remark :
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- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
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Technical Management Suwimon C. — Suwimon Chaisangpet, Scientist (3), ทะเบียนเลขที่ ว-204-ว-0018

Approved by Kanokkorn Anek, Assistant General Manager, ทะเบียนเลขที่ ว-204-ล-0004

Analysis / Test Report

TESTING No.0009

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name : Factory l Monthly
Project Location: WHA SIL

Lot ID: 2559894
Date Received : Jul 09, 2025
Date Reported : Jul 17, 2025
Report Number : 3340881-1

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

Technical Management Suwimon C. — Suwimon Chaiyangwat, Scientist (3), ทะเบียนเลขที่ ว-204-ว-0018

Approved by Kanokkorn Anek, Assistant General Manager, ทะเบียนเลขที่ ว-204-ค-0004

Analysis / Test Report

TESTING No.0009

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name : Factory l Monthly
Project Location: WHA SIL

Lot ID: 2559819
Date Received : Jul 02, 2025
Date Reported : Jul 09, 2025
Report Number : 3340774-1

Sample Number 2559819-1
Sampled Date Jul 02, 2025 10:15 AM
Sample Description Group 2 Wastewater WW-CT
Contract ID SIL_042_2556 **Plot** 64 **Site** IDEC Asia (Thailand) Co.,Ltd
Date Analysis Commenced Jul 03, 2025
Condition of Sample Contained in one amber glass bottle and three plastic bottles. sample containers comply to pretreatment - preservation standards (APHA/USEPA)
Physical Property Yellow, a lot of odour, solid, and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2.0	146	≤500	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Bangkok
COD	mg/L	-	25	243	≤750	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
Oil & Grease	mg/L	-	3	19	≤10	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Bangkok
pH (on site) *		-	-	6.7	5.5-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Temperature *	Degree C	-	-	31.3	≤45	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	45	≤200	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

Guideline : Standard of WHA Saraburi Industrial Land, Maximum levels for wastewater discharging to central wastewater treatment plant.
Sampling By : Teerawat Puangsuk ทะเบียนเลขที่ ว-204-ว-0058

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

Technical Management Siriluk P. — Siriluk Bunnak, Section Head, ทะเบียนเลขที่ ว-204-ว-0013

Approved by Kanokkorn Anek, Assistant General Manager, ทะเบียนเลขที่ ว-204-ค-0004

Analysis / Test Report

TESTING No.0009

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name : Factory l Monthly
Project Location: WHA SIL

Lot ID: 2559796
Date Received : Jul 02, 2025
Date Reported : Jul 09, 2025
Report Number : 3340745-1

Sample Number 2559796-1
Sampled Date Jul 02, 2025 11:25 AM
Sample Description Group 2 Wastewater WW-CT
Contract ID SIL_009_2554 **Plot** 43,44 **Site** JCY HDD Technology Co.,Ltd
Date Analysis Commenced Jul 03, 2025
Condition of Sample Contained in one amber glass bottle and three plastic bottles. sample containers comply to pretreatment - preservation standards (APHA/USEPA)
Physical Property Colorless, odourless, no solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2.0	<2.0	≤500	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Bangkok
COD	mg/L	-	25	<25	≤750	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Bangkok
pH (on site) *		-	-	7.5	5.5-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Temperature *	Degree C	-	-	31.4	≤45	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	<5	≤200	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

Guideline : Standard of WHA Saraburi Industrial Land, Maximum levels for wastewater discharging to central wastewater treatment plant.
Sampling By : Teerawat Puangsuk ทะเบียนเลขที่ ว-204-ว-0058

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

Technical Management Siriluk P. — Siriluk Bunnak, Section Head, ทะเบียนเลขที่ ว-204-ว-0013

Approved by Kanokkorn Anek, Assistant General Manager, ทะเบียนเลขที่ ว-204-ค-0004

Analysis / Test Report

TESTING No.0009

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name : Factory l Monthly
Project Location: WHA SIL

Lot ID: 2559813
Date Received : Jul 09, 2025
Date Reported : Jul 17, 2025
Report Number : 3340767-1

Sample Number 2559813-1
Sampled Date Jul 09, 2025 11:10 AM
Sample Description Group 2 Wastewater WW-CT
Contract ID SIL_034_2556 **Plot** 162/1 **Site** Johnan F. Tech (Thailand) Co.,Ltd.
Date Analysis Commenced Jul 10, 2025
Condition of Sample Contained in one amber glass bottle and three plastic bottles. sample containers comply to pretreatment - preservation standards (APHA/USEPA)
Physical Property Yellow, a lot of odour, solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2.0	37.1	≤500	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Bangkok
COD	mg/L	-	25	153	≤750	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Bangkok
pH (on site) *		-	-	7.5	5.5-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Temperature *	Degree C	-	-	32.2	≤45	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	31	≤200	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

Guideline : Standard of WHA Saraburi Industrial Land, Maximum levels for wastewater discharging to central wastewater treatment plant.
Sampling By : Panupong Sanet ทะเบียนเลขที่ ว-204-ว-0204

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

Technical Management Suwimon C. — Suwimon Chaiyangwat, Scientist (3), ทะเบียนเลขที่ ว-204-ว-0018

Approved by Kanokkorn Anek, Assistant General Manager, ทะเบียนเลขที่ ว-204-ค-0004

Analysis / Test Report

TESTING No.0009

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name : Factory l Monthly
Project Location: WHA SIL

Lot ID: 2559797
Date Received : Jul 09, 2025
Date Reported : Jul 17, 2025
Report Number : 3340746-1

Sample Number 2559797-1
Sampled Date Jul 09, 2025 11:45 AM
Sample Description Group 2 Wastewater WW-CT
Contract ID SIL_010_2556 **Plot** 146 **Site** Knauf Gypsum (Thailand) Co.,Ltd
Date Analysis Commenced Jul 09, 2025
Condition of Sample Contained in one amber glass bottle and three plastic bottles. sample containers comply to pretreatment - preservation standards (APHA/USEPA)
Physical Property Yellow, some odour, solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2.0	8.8	≤500	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Bangkok
COD	mg/L	-	25	40	≤750	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Bangkok
pH (on site) *		-	-	7.8	5.5-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Temperature *	Degree C	-	-	36.0	≤45	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	12	≤200	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

Guideline : Standard of WHA Saraburi Industrial Land, Maximum levels for wastewater discharging to central wastewater treatment plant.
Sampling By : Panupong Sanet ทะเบียนเลขที่ ว-204-ว-0204

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

Technical Management Suwimon C. — Suwimon Chaiyangwat, Scientist (3), ทะเบียนเลขที่ ว-204-ว-0018

Approved by Kanokkorn Anek, Assistant General Manager, ทะเบียนเลขที่ ว-204-ค-0004

Analysis / Test Report

TESTING No.0009

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name : Factory l Monthly
Project Location: WHA SIL

Lot ID: 2559874
Date Received : Jul 02, 2025
Date Reported : Jul 09, 2025
Report Number : 3340848-1

Sample Number 2559874-1
Sampled Date Jul 02, 2025 1:20 PM
Sample Description Group 2 Wastewater WW-CT
Contract ID SIL_013_2587 **Plot** 58/1 **Site** Kuramo (Thailand) CO.,LTD.
Date Analysis Commenced Jul 03, 2025
Condition of Sample Contained in one amber glass bottle and three plastic bottles. sample containers comply to pretreatment - preservation standards (APHA/USEPA)
Physical Property Yellow, a lot of odour, solid, and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2.0	115	≤500	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Bangkok
COD	mg/L	-	25	271	≤750	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
Oil & Grease	mg/L	-	3	7	≤10	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Bangkok
pH (on site) *		-	-	6.7	5.5-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Temperature *	Degree C	-	-	32.8	≤45	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	96	≤200	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

Guideline : Standard of WHA Saraburi Industrial Land, Maximum levels for wastewater discharging to central wastewater treatment plant.
Sampling By : Teerawat Puangsuk ทะเบียนเลขที่ ว-204-ว-0058

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

Technical Management Siriluk P. — Siriluk Bunnak, Section Head, ทะเบียนเลขที่ ว-204-ว-0013

Approved by Kanokkorn Anek, Assistant General Manager, ทะเบียนเลขที่ ว-204-ค-0004

Analysis / Test Report

TESTING No.0009

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name : Factory l Monthly
Project Location: WHA SIL

Lot ID: 2559803
Date Received : Jul 09, 2025
Date Reported : Jul 17, 2025
Report Number : 3340755-1

Sample Number 2559803-1
Sampled Date Jul 09, 2025 10:10 AM
Sample Description Group 2 Wastewater WW-CT
Contract ID SIL_018_2554 **Plot** 18,82,40 **Site** Maxion Wheels (Thailand) Co.,Ltd.
Date Analysis Commenced Jul 09, 2025
Condition of Sample Contained in one amber glass bottle and three plastic bottles. sample containers comply to pretreatment - preservation standards (APHA/USEPA)
Physical Property Yellow, some odour, solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2.0	13.4	≤500	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Bangkok
COD	mg/L	-	25	54	≤750	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
Oil & Grease	mg/L	-	3	4	≤10	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Bangkok
pH (on site) *		-	-	7.8	5.5-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Temperature *	Degree C	-	-	32.9	≤45	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	40	≤200	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

Guideline : Standard of WHA Saraburi Industrial Land, Maximum levels for wastewater discharging to central wastewater treatment plant.
Sampling By : Panupong Sanet ทะเบียนเลขที่ ว-204-ว-0204

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

Technical Management Suwimon C. — Suwimon Chaiyangwat, Scientist (3), ทะเบียนเลขที่ ว-204-ว-0018

Approved by Kanokkorn Anek, Assistant General Manager, ทะเบียนเลขที่ ว-204-ค-0004

Analysis / Test Report

TESTING No.0009

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name : Factory l Monthly
Project Location: WHA SIL

Lot ID: 2559811
Date Received : Jul 02, 2025
Date Reported : Jul 09, 2025
Report Number : 3340764-1

Sample Number 2559811-1
Sampled Date Jul 02, 2025 10:20 AM
Sample Description Group 2 Wastewater WW-CT
Contract ID SIL_011_2554 **Plot** 65 **Site** Michelin ROH Co.,Ltd.
Date Analysis Commenced Jul 03, 2025
Condition of Sample Contained in one amber glass bottle and three plastic bottles. sample containers comply to pretreatment - preservation standards (APHA/USEPA)
Physical Property Yellow, some odour, a lot of solid, and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2.0	31.4	≤500	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Bangkok
COD	mg/L	-	25	146	≤750	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
Oil & Grease	mg/L	-	3	5	≤10	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Bangkok
pH (on site) *		-	-	7.6	5.5-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Temperature *	Degree C	-	-	30.6	≤45	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	37	≤200	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

Guideline : Standard of WHA Saraburi Industrial Land, Maximum levels for wastewater discharging to central wastewater treatment plant.
Sampling By : Teerawat Puangsuk ทะเบียนเลขที่ ว-204-ว-0058

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

Technical Management Siriluk P. — Siriluk Bunnak, Section Head, ทะเบียนเลขที่ ว-204-ว-0013

Approved by Kanokkorn Anek, Assistant General Manager, ทะเบียนเลขที่ ว-204-ค-0004

Analysis / Test Report

TESTING No.0009

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name : Factory l Monthly
Project Location: WHA SIL

Lot ID: 2559799
Date Received : Jul 02, 2025
Date Reported : Jul 09, 2025
Report Number : 3340748-1

Sample Number 2559799-1
Sampled Date Jul 02, 2025 1:50 PM
Sample Description Group 2 Wastewater WW-CT
Contract ID SIL_013_2554 **Plot** 5,83,92 **Site** Michelin Siam Co.,Ltd. (1st)
Date Analysis Commenced Jul 03, 2025
Condition of Sample Contained in one amber glass bottle and three plastic bottles. sample containers comply to pretreatment - preservation standards (APHA/USEPA)
Physical Property Yellow, some odour, solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2.0	12.7	≤500	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Bangkok
COD	mg/L	-	25	58	≤750	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
Oil & Grease	mg/L	-	3	3	≤10	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Bangkok
pH (on site) *		-	-	7.9	5.5-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Temperature *	Degree C	-	-	33.3	≤45	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	520	≤3000	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	14	≤200	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

Guideline : Standard of WHA Saraburi Industrial Land, Maximum levels for wastewater discharging to central wastewater treatment plant.
Sampling By : Panupong Sanet ทะเบียนเลขที่ ว-204-ว-0204

Remark :
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Technical Management Siriluk P. — Siriluk Bunnak, Section Head, ทะเบียนเลขที่ ว-204-ว-0013

Approved by Kanokkorn Anek, Assistant General Manager, ทะเบียนเลขที่ ว-204-ค-0004

Analysis / Test Report

TESTING No.0009

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name : Factory / Monthly
Project Location: WHA SIL

Lot ID: 2559799
Date Received : Jul 02, 2025
Date Reported : Jul 09, 2025
Report Number : 3340748-1

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

Technical Management Siriluk P. — Siriluk Bunnak, Section Head, ทะเบียนเลขที่ ว-204-ว-0013

Approved by Kanokkorn Anek — Assistant General Manager, ทะเบียนเลขที่ ว-204-ผ-0004

Analysis / Test Report

TESTING No.0009

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name : Factory / Monthly
Project Location: WHA SIL

Lot ID: 2559878
Date Received : Jul 09, 2025
Date Reported : Jul 15, 2025
Report Number : 3340854-1

Sample Number 2559878-1
Sampled Date Jul 09, 2025 1:10 PM
Sample Description Group 2 Wastewater WW-CT
Contract ID SIL_013_2554 **Plot** 5,83,92 **Site** Michelin Siam Co.,Ltd. (2nd)
Date Analysis Commenced Jul 11, 2025
Condition of Sample Contained in one plastic bottle. sample containers comply to pretreatment - preservation standards (APHA/USEPA)
Physical Property Yellow, some odour, solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Total Dissolved solids Dried at 180 degree C	mg/L	-	5	512	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Bangkok

Guideline : Standard of WHA Saraburi Industrial Land, Maximum levels for wastewater discharging to central wastewater treatment plant.
Sampling By : Panupong Samer ทะเบียนเลขที่ ว-204-ว-0204

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

Technical Management Suwimon C. — Suwimon Chairungsrit, Scientist (3), ทะเบียนเลขที่ ว-204-ว-0018

Approved by Kanokkorn Anek — Assistant General Manager, ทะเบียนเลขที่ ว-204-ผ-0004

Analysis / Test Report

TESTING No.0009

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name : Factory / Monthly
Project Location: WHA SIL

Lot ID: 2559845
Date Received : Jul 02, 2025
Date Reported : Jul 09, 2025
Report Number : 3340804-1

Sample Number 2559845-1
Sampled Date Jul 02, 2025 9:50 AM
Sample Description Group 2 Wastewater WW-CT
Contract ID SIL_002_2560 **Plot** 17 **Site** Michelin Siam Co.,Ltd.
Date Analysis Commenced Jul 03, 2025
Condition of Sample Contained in one amber glass bottle and three plastic bottles. sample containers comply to pretreatment - preservation standards (APHA/USEPA)
Physical Property Yellow, a lot of odour, some solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2.0	20.0	≤500	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Bangkok
COD	mg/L	-	25	96	≤750	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
Oil & Grease	mg/L	-	3	3	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Bangkok
pH (on site) *		-	-	7.9	5.5-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Temperature *	Degree C	-	-	33.2	≤45	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	26	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

Guideline : Standard of WHA Saraburi Industrial Land, Maximum levels for wastewater discharging to central wastewater treatment plant.
Sampling By : Panupong Samer ทะเบียนเลขที่ ว-204-ว-0204

Remark :
- LOD : Limit of Detection
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- Sampling is not included in scope of accreditation ISO/IEC 17025

Technical Management Siriluk P. — Siriluk Bunnak, Section Head, ทะเบียนเลขที่ ว-204-ว-0013

Approved by Kanokkorn Anek — Assistant General Manager, ทะเบียนเลขที่ ว-204-ผ-0004

Analysis / Test Report

TESTING No.0009

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name : Factory / Monthly
Project Location: WHA SIL

Lot ID: 2559857
Date Received : Jul 03, 2025
Date Reported : Jul 11, 2025
Report Number : 3340818-1

Sample Number 2559857-1
Sampled Date Jul 03, 2025 9:40 AM
Sample Description Group 2 Wastewater WW-CT
Contract ID SIL_003_2566 **Plot** 135 **Site** Miyago Industry (Thailand) Co.,Ltd.
Date Analysis Commenced Jul 04, 2025
Condition of Sample Contained in one amber glass bottle and three plastic bottles. sample containers comply to pretreatment - preservation standards (APHA/USEPA)
Physical Property Yellow, some odour, solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2.0	19.2	≤500	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Bangkok
COD	mg/L	-	25	93	≤750	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Bangkok
pH (on site) *		-	-	7.8	5.5-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Temperature *	Degree C	-	-	30.1	≤45	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	37	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

Guideline : Standard of WHA Saraburi Industrial Land, Maximum levels for wastewater discharging to central wastewater treatment plant.
Sampling By : Panupong Samer ทะเบียนเลขที่ ว-204-ว-0204

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

Technical Management Siriluk P. — Siriluk Bunnak, Section Head, ทะเบียนเลขที่ ว-204-ว-0013

Approved by Kanokkorn Anek — Assistant General Manager, ทะเบียนเลขที่ ว-204-ผ-0004

Analysis / Test Report

TESTING No.0009

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name : Factory / Monthly
Project Location: WHA SIL

Lot ID: 2559825
Date Received : Jul 09, 2025
Date Reported : Jul 17, 2025
Report Number : 3340781-1

Sample Number 2559825-1
Sampled Date Jul 09, 2025 11:15 AM
Sample Description Group 2 Wastewater WW-CT
Contract ID SIL_048_2556 **Plot** 160, 161, 162, 166, 168 **Site** Muto (Thailand) Co.,Ltd.
Date Analysis Commenced Jul 10, 2025
Condition of Sample Contained in one amber glass bottle and three plastic bottles. sample containers comply to pretreatment - preservation standards (APHA/USEPA)
Physical Property Yellow, a lot of odour, some solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2.0	60.8	≤500	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Bangkok
COD	mg/L	-	25	154	≤750	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
Oil & Grease	mg/L	-	3	4	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Bangkok
pH (on site) *		-	-	8.1	5.5-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Temperature *	Degree C	-	-	31.9	≤45	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	48	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

Guideline : Standard of WHA Saraburi Industrial Land, Maximum levels for wastewater discharging to central wastewater treatment plant.
Sampling By : Panupong Samer ทะเบียนเลขที่ ว-204-ว-0204

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

Technical Management Suwimon C. — Suwimon Chairungsrit, Scientist (3), ทะเบียนเลขที่ ว-204-ว-0018

Approved by Kanokkorn Anek — Assistant General Manager, ทะเบียนเลขที่ ว-204-ผ-0004

Analysis / Test Report

TESTING No.0009

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name : Factory / Monthly
Project Location: WHA SIL

Lot ID: 2559855
Date Received : Jul 02, 2025
Date Reported : Jul 09, 2025
Report Number : 3340816-1

Sample Number 2559855-1
Sampled Date Jul 02, 2025 10:00 AM
Sample Description Group 2 Wastewater WW-CT
Contract ID SIL_005_2565 **Plot** 6 **Site** Nawaplastic Industries Co., Ltd.
Date Analysis Commenced Jul 03, 2025
Condition of Sample Contained in one amber glass bottle and three plastic bottles. sample containers comply to pretreatment - preservation standards (APHA/USEPA)
Physical Property Yellow, a lot of odour, some solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2.0	28.1	≤500	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Bangkok
COD	mg/L	-	25	123	≤750	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Bangkok
pH (on site) *		-	-	7.8	5.5-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Temperature *	Degree C	-	-	30.4	≤45	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	40	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

Guideline : Standard of WHA Saraburi Industrial Land, Maximum levels for wastewater discharging to central wastewater treatment plant.
Sampling By : Panupong Samer ทะเบียนเลขที่ ว-204-ว-0204

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

Technical Management Siriluk P. — Siriluk Bunnak, Section Head, ทะเบียนเลขที่ ว-204-ว-0013

Approved by Kanokkorn Anek — Assistant General Manager, ทะเบียนเลขที่ ว-204-ผ-0004

Analysis / Test Report

TESTING No.0009

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name : Factory / Monthly
Project Location: WHA SIL

Lot ID: 2559826
Date Received : Jul 03, 2025
Date Reported : Jul 11, 2025
Report Number : 3340782-1

Sample Number 2559826-1
Sampled Date Jul 03, 2025 11:10 AM
Sample Description Group 2 Wastewater WW-CT
Contract ID SIL_055_2554 **Plot** 80, 81 **Site** Nidec Component Technology(Thailand) Co., Ltd.
Date Analysis Commenced Jul 04, 2025
Condition of Sample Contained in one amber glass bottle and three plastic bottles. sample containers comply to pretreatment - preservation standards (APHA/USEPA)
Physical Property Yellow, some odour, solid and no turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2.0	6.8	≤500	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Bangkok
COD	mg/L	-	25	38	≤750	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Bangkok
pH (on site) *		-	-	7.3	5.5-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Temperature *	Degree C	-	-	29.0	≤45	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	<5	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

Guideline : Standard of WHA Saraburi Industrial Land, Maximum levels for wastewater discharging to central wastewater treatment plant.
Sampling By : Panupong Samer ทะเบียนเลขที่ ว-204-ว-0204

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

Technical Management Siriluk P. — Siriluk Bunnak, Section Head, ทะเบียนเลขที่ ว-204-ว-0013

Approved by Kanokkorn Anek — Assistant General Manager, ทะเบียนเลขที่ ว-204-ผ-0004

Analysis / Test Report

TESTING No.0009

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name : Factory / Monthly
Project Location: WHA SIL

Lot ID: 2559856
Date Received : Jul 02, 2025
Date Reported : Jul 09, 2025
Report Number : 3340817-1

Sample Number 2559856-1
Sampled Date Jul 02, 2025 10:45 AM
Sample Description Group 2 Wastewater WW-CT
Contract ID SIL_007_2565 **Plot** 68 **Site** Nihonichi Food (Thailand) Co.,Ltd.
Date Analysis Commenced Jul 03, 2025
Condition of Sample Contained in one amber glass bottle and three plastic bottles. sample containers comply to pretreatment - preservation standards (APHA/USEPA)
Physical Property Yellow, odourless, solid, and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2.0	<2.0	≤500	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Bangkok
COD	mg/L	-	25	<25	≤750	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Bangkok
pH (on site) *		-	-	7.2	5.5-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Temperature *	Degree C	-	-	30.6	≤45	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	21	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

Guideline : Standard of WHA Saraburi Industrial Land, Maximum levels for wastewater discharging to central wastewater treatment plant.
Sampling By : Teerawat Puangsuk ทะเบียนเลขที่ ว-204-ว-0058

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

Technical Management Siriluk P. — Siriluk Bunnak, Section Head, ทะเบียนเลขที่ ว-204-ว-0013

Approved by Kanokkorn Anek — Assistant General Manager, ทะเบียนเลขที่ ว-204-ผ-0004

Analysis / Test Report

TESTING No.0009

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name : Factory / Monthly
Project Location: WHA SIL

Lot ID: 2559830
Date Received : Jul 02, 2025
Date Reported : Jul 09, 2025
Report Number : 3340787-1

Sample Number 2559830-1
Sampled Date Jul 02, 2025 9:30 AM
Sample Description Group 2 Wastewater WW-CT
Contract ID SIL_063_2556 **Plot** 93C **Site** Nikon (Thailand) Co.,Ltd.
Date Analysis Commenced Jul 03, 2025
Condition of Sample Contained in one amber glass bottle and three plastic bottles. sample containers comply to pretreatment - preservation standards (APHA/USEPA)
Physical Property Yellow, a lot of odour, solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2.0	88.5	≤500	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Bangkok
COD	mg/L	-	25	192	≤750	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
Oil & Grease	mg/L	-	3	5	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Bangkok
pH (on site) *		-	-	7.8	5.5-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Temperature *	Degree C	-	-	30.1	≤45	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	55	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

Guideline : Standard of WHA Saraburi Industrial Land, Maximum levels for wastewater discharging to central wastewater treatment plant.
Sampling By : Panupong Samer ทะเบียนเลขที่ ว-204-ว-0204

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

Technical Management Siriluk P. — Siriluk Bunnak, Section Head, ทะเบียนเลขที่ ว-204-ว-0013

Approved by Kanokkorn Anek — Assistant General Manager, ทะเบียนเลขที่ ว-204-ผ-0004

Analysis / Test Report

TESTING No.0009

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name : Factory / Monthly
Project Location: WHA SIL

Lot ID: 2559816
Date Received : Jul 02, 2025
Date Reported : Jul 09, 2025
Report Number : 3340771-1

Sample Number	2559816-1
Sampled Date	Jul 02, 2025 11:35 AM
Sample Description	Group 2 Wastewater WW-CT
Contract ID	SIL_040_2558 **Plot** 21 **Site** Noritake SA (Thailand) Co.,Ltd.
Date Analysis Commenced	Jul 03, 2025
Condition of Sample	Contained in one amber glass bottle and three plastic bottles. sample containers comply to pretreatment - preservation standards (APHA/USEPA)
Physical Property	Yellow, some odour, solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2.0	9.6	≤500	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Bangkok
COD	mg/L	-	25	38	≤750	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
Oil & Grease	mg/L	-	3	3	≤10	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Bangkok
pH (on site) *		-	-	7.0	5.5-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Temperature *	Degree C	-	-	30.5	≤45	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	20	≤200	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

Guideline : Standard of WHA Saraburi Industrial Land, Maximum levels for wastewater discharging to central wastewater treatment plant.
Sampling By : Panupong Sanet ทะเบียนเลขที่ ว-204-ว-0204

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

Technical Management Siriluk P. — Siriluk Bunnak, Section Head, ทะเบียนเลขที่ ว-204-ว-0013
Approved by Kanokkorn Anek — Kanokkorn Anek, Assistant General Manager, ทะเบียนเลขที่ ว-204-ส-0004

Analysis / Test Report

TESTING No.0009

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name : Factory / Monthly
Project Location: WHA SIL

Lot ID: 2559892
Date Received : Jul 08, 2025
Date Reported : Jul 16, 2025
Report Number : 3340877-1

Sample Number	2559892-1
Sampled Date	Jul 08, 2025 1:10 PM
Sample Description	Group 2 Wastewater WW-CT
Contract ID	SIL_019_2554 **Plot** 20 **Site** Noritake SCG Plaster Co.,Ltd.
Date Analysis Commenced	Jul 09, 2025
Condition of Sample	Contained in one amber glass bottle and three plastic bottles. sample containers comply to pretreatment - preservation standards (APHA/USEPA)
Physical Property	Yellow, some odour, solid, and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2.0	15.5	≤500	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Bangkok
COD	mg/L	-	25	55	≤750	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Bangkok
pH (on site) *		-	-	7.9	5.5-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Temperature *	Degree C	-	-	32.5	≤45	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	1444	≤3000	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	7	≤200	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

Guideline : Standard of WHA Saraburi Industrial Land, Maximum levels for wastewater discharging to central wastewater treatment plant.
Sampling By : Panupong Sanet ทะเบียนเลขที่ ว-204-ว-0204

Remark :
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Technical Management Suwimon C — Suwimon Charuangsrit, Scientist (3), ทะเบียนเลขที่ ว-204-ว-0018
Approved by Kanokkorn Anek — Kanokkorn Anek, Assistant General Manager, ทะเบียนเลขที่ ว-204-ส-0004

Analysis / Test Report

TESTING No.0009

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name : Factory / Monthly
Project Location: WHA SIL

Lot ID: 2559892
Date Received : Jul 08, 2025
Date Reported : Jul 16, 2025
Report Number : 3340877-1

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

Technical Management Suwimon C — Suwimon Charuangsrit, Scientist (3), ทะเบียนเลขที่ ว-204-ว-0018
Approved by Kanokkorn Anek — Kanokkorn Anek, Assistant General Manager, ทะเบียนเลขที่ ว-204-ส-0004

Analysis / Test Report

TESTING No.0009

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name : Factory / Monthly
Project Location: WHA SIL

Lot ID: 2559847
Date Received : Jul 03, 2025
Date Reported : Jul 11, 2025
Report Number : 3340807-1

Sample Number	2559847-1
Sampled Date	Jul 03, 2025 11:30 AM
Sample Description	Group 2 Wastewater WW-CT
Contract ID	SIL_007_2560 **Plot** 142/2 **Site** NX SHOE (THAILAND) CO., LTD.
Date Analysis Commenced	Jul 04, 2025
Condition of Sample	Contained in one amber glass bottle and three plastic bottles. sample containers comply to pretreatment - preservation standards (APHA/USEPA)
Physical Property	Yellow, a lot of odour, solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2.0	84.6	≤500	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Bangkok
COD	mg/L	-	25	282	≤750	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
Oil & Grease	mg/L	-	3	5	≤10	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Bangkok
pH (on site) *		-	-	7.3	5.5-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Temperature *	Degree C	-	-	30.4	≤45	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	198	≤200	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

Guideline : Standard of WHA Saraburi Industrial Land, Maximum levels for wastewater discharging to central wastewater treatment plant.
Sampling By : Panupong Sanet ทะเบียนเลขที่ ว-204-ว-0204

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

Technical Management Siriluk P. — Siriluk Bunnak, Section Head, ทะเบียนเลขที่ ว-204-ว-0013
Approved by Kanokkorn Anek — Kanokkorn Anek, Assistant General Manager, ทะเบียนเลขที่ ว-204-ส-0004

Analysis / Test Report

TESTING No.0009

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name : Factory / Monthly
Project Location: WHA SIL

Lot ID: 2559848
Date Received : Jul 03, 2025
Date Reported : Jul 11, 2025
Report Number : 3340808-1

Sample Number	2559848-1
Sampled Date	Jul 03, 2025 11:35 AM
Sample Description	Group 2 Wastewater WW-CT
Contract ID	SIL_008_2560 **Plot** 142/4 **Site** NX SHOE (THAILAND) CO., LTD.
Date Analysis Commenced	Jul 04, 2025
Condition of Sample	Contained in one amber glass bottle and three plastic bottles. sample containers comply to pretreatment - preservation standards (APHA/USEPA)
Physical Property	Yellow, a lot of odour, solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2.0	19.5	≤500	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Bangkok
COD	mg/L	-	25	109	≤750	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Bangkok
pH (on site) *		-	-	8.0	5.5-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Temperature *	Degree C	-	-	31.1	≤45	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	47	≤200	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

Guideline : Standard of WHA Saraburi Industrial Land, Maximum levels for wastewater discharging to central wastewater treatment plant.
Sampling By : Panupong Sanet ทะเบียนเลขที่ ว-204-ว-0204

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

Technical Management Siriluk P. — Siriluk Bunnak, Section Head, ทะเบียนเลขที่ ว-204-ว-0013
Approved by Kanokkorn Anek — Kanokkorn Anek, Assistant General Manager, ทะเบียนเลขที่ ว-204-ส-0004

Analysis / Test Report

TESTING No.0009

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name : Factory / Monthly
Project Location: WHA SIL

Lot ID: 2559886
Date Received : Jul 02, 2025
Date Reported : Jul 11, 2025
Report Number : 3340869-1

Sample Number	2559886-1
Sampled Date	Jul 02, 2025 10:55 AM
Sample Description	Group 2 Wastewater WW-CT
Contract ID	SIL_053_2554 **Plot** 36 **Site** Ready Clean Co.,Ltd.
Date Analysis Commenced	Jul 03, 2025
Condition of Sample	Contained in one amber glass bottle and four plastic bottles. sample containers comply to pretreatment - preservation standards (APHA/USEPA)
Physical Property	Yellow, some odour, solid and no turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2.0	<2.0	≤500	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Bangkok
COD	mg/L	-	25	29	≤750	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Bangkok
pH (on site) *		-	-	7.5	5.5-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Temperature *	Degree C	-	-	29.1	≤45	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	<5	≤200	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

Guideline : Standard of WHA Saraburi Industrial Land, Maximum levels for wastewater discharging to central wastewater treatment plant.
Sampling By : Panupong Sanet ทะเบียนเลขที่ ว-204-ว-0204

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

Technical Management Siriluk P. — Siriluk Bunnak, Section Head, ทะเบียนเลขที่ ว-204-ว-0013
Approved by Kanokkorn Anek — Kanokkorn Anek, Assistant General Manager, ทะเบียนเลขที่ ว-204-ส-0004

Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name : Factory / Monthly
Project Location: WHA SIL

Lot ID: 2559886
Date Received : Jul 02, 2025
Date Reported : Jul 11, 2025
Report Number : 3340869-2

Sample Number	2559886-1
Sampled Date	Jul 02, 2025 10:55 AM
Sample Description	Group 2 Wastewater WW-CT
Contract ID	SIL_053_2554 **Plot** 36 **Site** Ready Clean Co.,Ltd.
Date Analysis Commenced	Jul 03, 2025
Condition of Sample	Contained in one amber glass bottle and four plastic bottles. sample containers comply to pretreatment - preservation standards (APHA/USEPA)
Physical Property	Yellow, some odour, solid and no turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Anionic Surfactant as MBAS	mg/L	0.015	0.05	0.20	≤30	Based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5540 B, C	Bangkok

Guideline : Standard of WHA Saraburi Industrial Land, Maximum levels for wastewater discharging to central wastewater treatment plant.
Sampling By : Panupong Sanet

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

Approved by Siriluk P. — Siriluk Bunnak, Section Head

Analysis / Test Report

TESTING No.0009

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name : Factory / Monthly
Project Location: WHA SIL

Lot ID: 2559824
Date Received : Jul 01, 2025
Date Reported : Jul 08, 2025
Report Number : 3340780-1

Sample Number	2559824-1
Sampled Date	Jul 01, 2025 10:30 AM
Sample Description	Group 2 Wastewater WW-CT
Contract ID	SIL_047_2556 **Plot** 130 **Site** Rohm Mechatech (Thailand) Co.,Ltd.
Date Analysis Commenced	Jul 02, 2025
Condition of Sample	Contained in one amber glass bottle and three plastic bottles. sample containers comply to pretreatment - preservation standards (APHA/USEPA)
Physical Property	Yellow, some odour, solid and no turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2.0	6.3	≤500	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Bangkok
COD	mg/L	-	25	30	≤750	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Bangkok
pH (on site) *		-	-	7.7	5.5-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Temperature *	Degree C	-	-	30.4	≤45	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	9	≤200	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

Guideline : Standard of WHA Saraburi Industrial Land, Maximum levels for wastewater discharging to central wastewater treatment plant.
Sampling By : Teerawat Puangsuk ทะเบียนเลขที่ ว-204-ว-0058

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

Technical Management Siriluk P. — Siriluk Bunnak, Section Head, ทะเบียนเลขที่ ว-204-ว-0013
Approved by Kanokkorn Anek — Kanokkorn Anek, Assistant General Manager, ทะเบียนเลขที่ ว-204-ส-0004

Analysis / Test Report

TESTING No.0009

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name : Factory / Monthly
Project Location: WHA SIL

Lot ID: 2559844
Date Received : Jul 02, 2025
Date Reported : Jul 09, 2025
Report Number : 3340802-1

Sample Number	2559844-1
Sampled Date	Jul 02, 2025 9:00 AM
Sample Description	Group 2 Wastewater WW-CT
Contract ID	SIL_001_2560 **Plot** 01 **Site** SCG Ceramics Co.,Ltd.
Date Analysis Commenced	Jul 03, 2025
Condition of Sample	Contained in one amber glass bottle and three plastic bottles. sample containers comply to pretreatment - preservation standards (APHA/USEPA)
Physical Property	Yellow, some odour, solid and no turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2.0	2.2	≤500	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Bangkok
COD	mg/L	-	25	<25	≤750	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Bangkok
pH (on site) *		-	-	7.5	5.5-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Temperature *	Degree C	-	-	28.6	≤45	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	<5	≤200	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

Guideline : Standard of WHA Saraburi Industrial Land, Maximum levels for wastewater discharging to central wastewater treatment plant.
Sampling By : Panupong Sanet ทะเบียนเลขที่ ว-204-ว-0204

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

Technical Management Siriluk P. — Siriluk Bunnak, Section Head, ทะเบียนเลขที่ ว-204-ว-0013
Approved by Kanokkorn Anek — Kanokkorn Anek, Assistant General Manager, ทะเบียนเลขที่ ว-204-ส-0004

Analysis / Test Report

TESTING No.0009

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name : Factory I Monthly
Project Location: WHA SIL

Lot ID: 2559853
Date Received : Jul 02, 2025
Date Reported : Jul 09, 2025
Report Number : 3340814-1

Sample Number	2559853-1
Sampled Date	Jul 02, 2025 1:10 PM
Sample Description	Group 2 Wastewater WW-CT
Contract ID	SIL_001_2565 **Plot** 14 **Site** SCG Landscape
Date Analysis Commenced	Jul 03, 2025
Condition of Sample	Contained in one amber glass bottle and three plastic bottles. sample containers comply to pretreatment - preservation standards (APHA/USEPA)
Physical Property	Yellow, some odour, solid, and no turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2.0	3.0	≤500	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Bangkok
COD	mg/L	-	25	<25	≤750	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Bangkok
pH (on site) *		-	-	7.0	5.5-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Temperature *	Degree C	-	-	31.8	≤45	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	12	≤200	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

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

Sampling By : Panupong Sanei ทะเบียนเลขที่ ว-204-ร-0204

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

Technical Management: Siriluk P. — Siriluk Bunnak, Section Head, ทะเบียนเลขที่ ว-204-ร-0013

Approved by: Kanokkorn Anek, Assistant General Manager, ทะเบียนเลขที่ ว-204-ร-0004

Analysis / Test Report

TESTING No.0009

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name : Factory I Monthly
Project Location: WHA SIL

Lot ID: 2559789
Date Received : Jul 02, 2025
Date Reported : Jul 09, 2025
Report Number : 3340736-1

Sample Number	2559789-1
Sampled Date	Jul 02, 2025 11:00 AM
Sample Description	Group 2 Wastewater WW-CT
Contract ID	SIL_002_2554 **Plot** 10, 11 **Site** SCG Roofing Co.,Ltd
Date Analysis Commenced	Jul 03, 2025
Condition of Sample	Contained in one amber glass bottle and three plastic bottles. sample containers comply to pretreatment - preservation standards (APHA/USEPA)
Physical Property	Yellow, some odour, solid and no turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2.0	<2.0	≤500	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Bangkok
COD	mg/L	-	25	<25	≤750	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Bangkok
pH (on site) *		-	-	7.2	5.5-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Temperature *	Degree C	-	-	30.1	≤45	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	22	≤200	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

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

Sampling By : Panupong Sanei ทะเบียนเลขที่ ว-204-ร-0204

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

Technical Management: Siriluk P. — Siriluk Bunnak, Section Head, ทะเบียนเลขที่ ว-204-ร-0013

Approved by: Kanokkorn Anek, Assistant General Manager, ทะเบียนเลขที่ ว-204-ร-0004

Analysis / Test Report

TESTING No.0009

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name : Factory I Monthly
Project Location: WHA SIL

Lot ID: 2559808
Date Received : Jul 02, 2025
Date Reported : Jul 09, 2025
Report Number : 3340781-1

Sample Number	2559808-1
Sampled Date	Jul 02, 2025 8:55 AM
Sample Description	Group 2 Wastewater WW-CT
Contract ID	SIL_025_2554 **Plot** 19,41 **Site** SCG Roofing Co.,Ltd
Date Analysis Commenced	Jul 03, 2025
Condition of Sample	Contained in one amber glass bottle and three plastic bottles. sample containers comply to pretreatment - preservation standards (APHA/USEPA)
Physical Property	Colorless, some odour, solid and no turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2.0	<2.0	≤500	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Bangkok
COD	mg/L	-	25	<25	≤750	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Bangkok
pH (on site) *		-	-	7.5	5.5-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Temperature *	Degree C	-	-	29.4	≤45	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	<5	≤200	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

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

Sampling By : Panupong Sanei ทะเบียนเลขที่ ว-204-ร-0204

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

Technical Management: Siriluk P. — Siriluk Bunnak, Section Head, ทะเบียนเลขที่ ว-204-ร-0013

Approved by: Kanokkorn Anek, Assistant General Manager, ทะเบียนเลขที่ ว-204-ร-0004

Analysis / Test Report

TESTING No.0009

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name : Factory I Monthly
Project Location: WHA SIL

Lot ID: 2559882
Date Received : Jul 03, 2025
Date Reported : Jul 11, 2025
Report Number : 3340863-1

Sample Number	2559882-1
Sampled Date	Jul 03, 2025 11:50 AM
Sample Description	Group 2 Wastewater WW-CT
Contract ID	SIL_008_2568 **Plot** 27D **Site** Scholmi Technology (Thailand) Company Limited
Date Analysis Commenced	Jul 04, 2025
Condition of Sample	Contained in one amber glass bottle and three plastic bottles. sample containers comply to pretreatment - preservation standards (APHA/USEPA)
Physical Property	Yellow, a lot of odour, some solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2.0	194	≤500	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Bangkok
COD	mg/L	-	25	326	≤750	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
Oil & Grease	mg/L	-	3	6	≤10	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Bangkok
pH (on site) *		-	-	8.0	5.5-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Temperature *	Degree C	-	-	30.5	≤45	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	74	≤200	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

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

Sampling By : Panupong Sanei ทะเบียนเลขที่ ว-204-ร-0204

Remark :
- LOD : Limit of Detection
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- Sampling is not included in scope of accreditation ISO/IEC 17025

Technical Management: Siriluk P. — Siriluk Bunnak, Section Head, ทะเบียนเลขที่ ว-204-ร-0013

Approved by: Kanokkorn Anek, Assistant General Manager, ทะเบียนเลขที่ ว-204-ร-0004

Analysis / Test Report

TESTING No.0009

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name : Factory I Monthly
Project Location: WHA SIL

Lot ID: 2559800
Date Received : Jul 02, 2025
Date Reported : Jul 09, 2025
Report Number : 3340752-1

Sample Number	2559800-1
Sampled Date	Jul 02, 2025 11:00 AM
Sample Description	Group 2 Wastewater WW-CT
Contract ID	SIL_015_2556 **Plot** 61,62 **Site** SEKI Corp (Thailand) Co.,Ltd.
Date Analysis Commenced	Jul 03, 2025
Condition of Sample	Contained in one amber glass bottle and three plastic bottles. sample containers comply to pretreatment - preservation standards (APHA/USEPA)
Physical Property	Yellow, a lot of odour, solid, and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2.0	112	≤500	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Bangkok
COD	mg/L	-	25	215	≤750	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
Oil & Grease	mg/L	-	3	8	≤10	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Bangkok
pH (on site) *		-	-	7.5	5.5-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Temperature *	Degree C	-	-	31.1	≤45	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	74	≤200	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

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

Sampling By : Teerawat Puangsuk ทะเบียนเลขที่ ว-204-ร-0058

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

Technical Management: Siriluk P. — Siriluk Bunnak, Section Head, ทะเบียนเลขที่ ว-204-ร-0013

Approved by: Kanokkorn Anek, Assistant General Manager, ทะเบียนเลขที่ ว-204-ร-0004

Analysis / Test Report

TESTING No.0009

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name : Factory I Monthly
Project Location: WHA SIL

Lot ID: 2559828
Date Received : Jul 02, 2025
Date Reported : Jul 09, 2025
Report Number : 3340785-1

Sample Number	2559828-1
Sampled Date	Jul 02, 2025 10:40 AM
Sample Description	Group 2 Wastewater WW-CT
Contract ID	SIL_057_2556 **Plot** 66 **Site** Sekisui Plastics (Thailand) Co.,Ltd.
Date Analysis Commenced	Jul 03, 2025
Condition of Sample	Contained in one amber glass bottle and three plastic bottles. sample containers comply to pretreatment - preservation standards (APHA/USEPA)
Physical Property	Yellow, odourless, solid, and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2.0	<2.0	≤500	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Bangkok
COD	mg/L	-	25	<25	≤750	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
Oil & Grease	mg/L	-	3	4	≤10	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Bangkok
pH (on site) *		-	-	8.7	5.5-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Temperature *	Degree C	-	-	38.7	≤45	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	<5	≤200	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

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

Sampling By : Teerawat Puangsuk ทะเบียนเลขที่ ว-204-ร-0058

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

Technical Management: Siriluk P. — Siriluk Bunnak, Section Head, ทะเบียนเลขที่ ว-204-ร-0013

Approved by: Kanokkorn Anek, Assistant General Manager, ทะเบียนเลขที่ ว-204-ร-0004

Analysis / Test Report

TESTING No.0009

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name : Factory I Monthly
Project Location: WHA SIL

Lot ID: 2559821
Date Received : Jul 09, 2025
Date Reported : Jul 17, 2025
Report Number : 3340776-1

Sample Number	2559821-1
Sampled Date	Jul 09, 2025 11:55 AM
Sample Description	Group 2 Wastewater WW-CT
Contract ID	SIL_071_2557 **Plot** 144,145 **Site** Sekisui-SCG Industrial Co.,Ltd.
Location	Point 1
Date Analysis Commenced	Jul 10, 2025
Condition of Sample	Contained in one amber glass bottle and three plastic bottles. sample containers comply to pretreatment - preservation standards (APHA/USEPA)
Physical Property	Yellow, some odour, solid and no turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2.0	<2.0	≤500	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Bangkok
COD	mg/L	-	25	<25	≤750	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Bangkok
pH (on site) *		-	-	7.6	5.5-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Temperature *	Degree C	-	-	30.1	≤45	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	<5	≤200	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

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

Sampling By : Panupong Sanei ทะเบียนเลขที่ ว-204-ร-0204

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

Technical Management: Suwimon C. — Suwimon Chansangpet, Scientist (3), ทะเบียนเลขที่ ว-204-ร-0018

Approved by: Kanokkorn Anek, Assistant General Manager, ทะเบียนเลขที่ ว-204-ร-0004

Analysis / Test Report

TESTING No.0009

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name : Factory I Monthly
Project Location: WHA SIL

Lot ID: 2559822
Date Received : Jul 09, 2025
Date Reported : Jul 17, 2025
Report Number : 3340777-1

Sample Number	2559822-1
Sampled Date	Jul 09, 2025 11:50 AM
Sample Description	Group 2 Wastewater WW-CT
Contract ID	SIL_005_2558 **Plot** 144,145 **Site** Sekisui-SCG Industrial Co.,Ltd.
Location	Point 2
Date Analysis Commenced	Jul 10, 2025
Condition of Sample	Contained in one amber glass bottle and three plastic bottles. sample containers comply to pretreatment - preservation standards (APHA/USEPA)
Physical Property	Yellow, some odour, solid and no turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2.0	<2.0	≤500	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Bangkok
COD	mg/L	-	25	<25	≤750	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Bangkok
pH (on site) *		-	-	7.8	5.5-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Temperature *	Degree C	-	-	32.1	≤45	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	<5	≤200	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

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

Sampling By : Panupong Sanei ทะเบียนเลขที่ ว-204-ร-0204

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

Technical Management: Suwimon C. — Suwimon Chansangpet, Scientist (3), ทะเบียนเลขที่ ว-204-ร-0018

Approved by: Kanokkorn Anek, Assistant General Manager, ทะเบียนเลขที่ ว-204-ร-0004

Analysis / Test Report

TESTING No.0009

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name : Factory I Monthly
Project Location: WHA SIL

Lot ID: 2559831
Date Received : Jul 02, 2025
Date Reported : Jul 09, 2025
Report Number : 3340788-1

Sample Number	2559831-1
Sampled Date	Jul 02, 2025 10:30 AM
Sample Description	Group 2 Wastewater WW-CT
Contract ID	SIL_068_2557 **Plot** 59 **Site** Shibakawa (Thailand) Co.,Ltd.
Location	Point 2
Date Analysis Commenced	Jul 03, 2025
Condition of Sample	Contained in one amber glass bottle and three plastic bottles. sample containers comply to pretreatment - preservation standards (APHA/USEPA)
Physical Property	Yellow, a lot of odour, solid, and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2.0	6.8	≤500	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Bangkok
COD	mg/L	-	25	84	≤750	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
Oil & Grease	mg/L	-	3	6	≤10	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Bangkok
pH (on site) *		-	-	7.4	5.5-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Temperature *	Degree C	-	-	31.4	≤45	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	23	≤200	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

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

Sampling By : Teerawat Puangsuk ทะเบียนเลขที่ ว-204-ร-0058

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

Technical Management: Siriluk P. — Siriluk Bunnak, Section Head, ทะเบียนเลขที่ ว-204-ร-0013

Approved by: Kanokkorn Anek, Assistant General Manager, ทะเบียนเลขที่ ว-204-ร-0004

Analysis / Test Report

TESTING No.0009

Lot ID: 2559837
Date Received : Jul 02, 2025
Date Reported : Jul 09, 2025
Report Number : 3340795-1

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name : Factory I Monthly
Project Location: WHA SIL

Sample Number 2559837-1
Sampled Date Jul 02, 2025 11:50 AM
Sample Description Group 2 Wastewater WW-CT
Contract ID SIL_081_2557 **Plot** 150 **Site** Shinantech (DKCT Co.,Ltd.)
Date Analysis Commenced Jul 03, 2025
Condition of Sample Contained in one amber glass bottle and three plastic bottles. sample containers comply to pretreatment - preservation standards (APHA/USEPA)
Physical Property Yellow, odourless, some solid, and no turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2.0	<2.0	≤500	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Bangkok
COD	mg/L	-	25	27	≤750	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Bangkok
pH (on site) *		-	-	7.3	5.5-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Temperature *	Degree C	-	-	29.5	≤45	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	16	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

Guideline : Standard of WHA Saraburi Industrial Land, Maximum levels for wastewater discharging to central wastewater treatment plant.
Sampling By : Teerawat Puangsuk ทะเบียนเลขที่ ว-204-ว-0058

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

Technical Management: Siriluk P. — Siriluk Bunnak, Section Head, ทะเบียนเลขที่ ว-204-ว-0013
Approved by: Kanokkorn Anek, Assistant General Manager, ทะเบียนเลขที่ ว-204-ด-0004

Analysis / Test Report

TESTING No.0009

Lot ID: 2559888
Date Received : Jul 02, 2025
Date Reported : Jul 09, 2025
Report Number : 3340872-1

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name : Factory I Monthly
Project Location: WHA SIL

Sample Number 2559888-1
Sampled Date Jul 02, 2025 10:45 AM
Sample Description Group 2 Wastewater WW-CT
Contract ID SIL_052_2554 **Plot** 6 **Site** SIAM FIBERGLASS COMPANY LIMITED
Date Analysis Commenced Jul 03, 2025
Condition of Sample Contained in one amber glass bottle and three plastic bottles. sample containers comply to pretreatment - preservation standards (APHA/USEPA)
Physical Property Green, some odour, solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2.0	19.7	≤500	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Bangkok
COD	mg/L	-	25	82	≤750	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
Formaldehyde	mg/L	0.03	0.1	0.3	≤1	Wastewater analysis manual, Environmental Engineering Association of Thailand, 4th ed., 2004	Bangkok
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Bangkok
pH (on site) *		-	-	7.6	5.5-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Temperature *	Degree C	-	-	30.8	≤45	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	18	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

Guideline : Standard of WHA Saraburi Industrial Land, Maximum levels for wastewater discharging to central wastewater treatment plant.
Sampling By : Panupong Sanwi ทะเบียนเลขที่ ว-204-ว-0204

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

Technical Management: Siriluk P. — Siriluk Bunnak, Section Head, ทะเบียนเลขที่ ว-204-ว-0013
Approved by: Kanokkorn Anek, Assistant General Manager, ทะเบียนเลขที่ ว-204-ด-0004

Analysis / Test Report

TESTING No.0009

Lot ID: 2559888
Date Received : Jul 02, 2025
Date Reported : Jul 09, 2025
Report Number : 3340872-1

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name : Factory I Monthly
Project Location: WHA SIL

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

Technical Management: Siriluk P. — Siriluk Bunnak, Section Head, ทะเบียนเลขที่ ว-204-ว-0013
Approved by: Kanokkorn Anek, Assistant General Manager, ทะเบียนเลขที่ ว-204-ด-0004

Analysis / Test Report

TESTING No.0009

Lot ID: 2559890
Date Received : Jul 09, 2025
Date Reported : Jul 17, 2025
Report Number : 3340874-1

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name : Factory I Monthly
Project Location: WHA SIL

Sample Number 2559890-1
Sampled Date Jul 09, 2025 10:40 AM
Sample Description Group 2 Wastewater WW-CT
Contract ID SIL_050_2554 **Plot** 69 **Site** Siam Furukawa Co.,Ltd. (2nd)
Date Analysis Commenced Jul 10, 2025
Condition of Sample Contained in one amber glass bottle and four plastic bottles. sample containers comply to pretreatment - preservation standards (APHA/USEPA)
Physical Property Yellow, some odour, solid and no turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Lead	mg/L	0.0003	0.0005	0.006	≤0.2	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2.0	2.7	≤500	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Bangkok
COD	mg/L	-	25	32	≤750	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Bangkok
pH (on site) *		-	-	7.7	5.5-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Temperature *	Degree C	-	-	31.2	≤45	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	740	≤3000	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	<5	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

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

Technical Management: Chanatt L. — Chanattagarn Inchom, Section Head, ทะเบียนเลขที่ ว-204-ว-0008
Approved by: Kanokkorn Anek, Assistant General Manager, ทะเบียนเลขที่ ว-204-ด-0004

Analysis / Test Report

TESTING No.0009

Lot ID: 2559890
Date Received : Jul 09, 2025
Date Reported : Jul 17, 2025
Report Number : 3340874-1

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name : Factory I Monthly
Project Location: WHA SIL

Sampling By : Panupong Sanwi ทะเบียนเลขที่ ว-204-ว-0204

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

Technical Management: Chanatt L. — Chanattagarn Inchom, Section Head, ทะเบียนเลขที่ ว-204-ว-0008
Approved by: Kanokkorn Anek, Assistant General Manager, ทะเบียนเลขที่ ว-204-ด-0004

Analysis / Test Report

TESTING No.0009

Lot ID: 2559889
Date Received : Jul 02, 2025
Date Reported : Jul 09, 2025
Report Number : 3340873-1

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name : Factory I Monthly
Project Location: WHA SIL

Sample Number 2559889-1
Sampled Date Jul 02, 2025 9:30 AM
Sample Description Group 2 Wastewater WW-CT
Contract ID SIL_050_2554 **Plot** 69 **Site** Siam Furukawa Co.,Ltd.(1st)
Date Analysis Commenced Jul 03, 2025
Condition of Sample Contained in one amber glass bottle and four plastic bottles. sample containers comply to pretreatment - preservation standards (APHA/USEPA)
Physical Property Colorless, odourless, no solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Lead	mg/L	0.0003	0.0005	0.004	≤0.2	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2.0	<2.0	≤500	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Bangkok
COD	mg/L	-	25	<25	≤750	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Bangkok
pH (on site) *		-	-	7.4	5.5-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Temperature *	Degree C	-	-	29.8	≤45	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	684	≤3000	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	<5	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

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

Technical Management: Sawitree N. — Sawitree Nokangam, Manager, ทะเบียนเลขที่ ว-204-ว-0007
Approved by: Kanokkorn Anek, Assistant General Manager, ทะเบียนเลขที่ ว-204-ด-0004

Analysis / Test Report

TESTING No.0009

Lot ID: 2559889
Date Received : Jul 02, 2025
Date Reported : Jul 09, 2025
Report Number : 3340873-1

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name : Factory I Monthly
Project Location: WHA SIL

Sampling By : Teerawat Puangsuk ทะเบียนเลขที่ ว-204-ว-0058

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

Technical Management: Sawitree N. — Sawitree Nokangam, Manager, ทะเบียนเลขที่ ว-204-ว-0007
Approved by: Kanokkorn Anek, Assistant General Manager, ทะเบียนเลขที่ ว-204-ด-0004

Analysis / Test Report

TESTING No.0009

Lot ID: 2559850
Date Received : Jul 02, 2025
Date Reported : Jul 09, 2025
Report Number : 3340811-1

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name : Factory I Monthly
Project Location: WHA SIL

Sample Number 2559850-1
Sampled Date Jul 02, 2025 9:20 AM
Sample Description Group 2 Wastewater WW-CT
Contract ID SIL_010_2560 **Plot** 31 **Site** Siam Furukawa Co.,Ltd.
Date Analysis Commenced Jul 03, 2025
Condition of Sample Contained in one amber glass bottle and three plastic bottles. sample containers comply to pretreatment - preservation standards (APHA/USEPA)
Physical Property Yellow, some odour, solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2.0	11.5	≤500	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Bangkok
COD	mg/L	-	25	105	≤750	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
Oil & Grease	mg/L	-	3	4	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Bangkok
pH (on site) *		-	-	7.1	5.5-9.0	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	≤45	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	34	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

Guideline : Standard of WHA Saraburi Industrial Land, Maximum levels for wastewater discharging to central wastewater treatment plant.
Sampling By : Teerawat Puangsuk ทะเบียนเลขที่ ว-204-ว-0058

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

Technical Management: Siriluk P. — Siriluk Bunnak, Section Head, ทะเบียนเลขที่ ว-204-ว-0013
Approved by: Kanokkorn Anek, Assistant General Manager, ทะเบียนเลขที่ ว-204-ด-0004

Analysis / Test Report

TESTING No.0009

Lot ID: 2559806
Date Received : Jul 02, 2025
Date Reported : Jul 09, 2025
Report Number : 3340759-1

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name : Factory I Monthly
Project Location: WHA SIL

Sample Number 2559806-1
Sampled Date Jul 02, 2025 9:00 AM
Sample Description Group 2 Wastewater WW-CT
Contract ID SIL_022_2554 **Plot** 55 **Site** Siam Furukawa Co.,Ltd.
Date Analysis Commenced Jul 03, 2025
Condition of Sample Contained in one amber glass bottle and three plastic bottles. sample containers comply to pretreatment - preservation standards (APHA/USEPA)
Physical Property Yellow, a lot of odour, solid, and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2.0	90.4	≤500	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Bangkok
COD	mg/L	-	25	221	≤750	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
Oil & Grease	mg/L	-	3	9	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Bangkok
pH (on site) *		-	-	8.0	5.5-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Temperature *	Degree C	-	-	31.2	≤45	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	125	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

Guideline : Standard of WHA Saraburi Industrial Land, Maximum levels for wastewater discharging to central wastewater treatment plant.
Sampling By : Teerawat Puangsuk ทะเบียนเลขที่ ว-204-ว-0058

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

Technical Management: Siriluk P. — Siriluk Bunnak, Section Head, ทะเบียนเลขที่ ว-204-ว-0013
Approved by: Kanokkorn Anek, Assistant General Manager, ทะเบียนเลขที่ ว-204-ด-0004

Analysis / Test Report

TESTING No.0009

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name : Factory I Monthly
Project Location: WHA SIL

Lot ID: 2559801
Date Received : Jul 02, 2025
Date Reported : Jul 09, 2025
Report Number : 3340753-1

Page 1 of 1

Sample Number: 2559801-1
Sampled Date: Jul 02, 2025 11:15 AM
Sample Description: Group 2 Wastewater WW-CT
Contract ID: SIL_018_2554 **Plot** 9,15 **Site** Siam Gypsum Industry (Saraburi) Co.,Ltd.
Location: Factory 1
Date Analysis Commenced: Jul 03, 2025
Condition of Sample: Contained in one amber glass bottle and three plastic bottles. sample containers comply to pretreatment - preservation standards (APHA/USEPA)
Physical Property: Yellow, some odour, solid and no turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2.0	<2.0	≤500	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Bangkok
COD	mg/L	-	25	<25	≤750	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Bangkok
pH (on site) *		-	-	7.4	5.5-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Temperature *	Degree C	-	-	30.7	≤45	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	<5	≤200	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

Guideline : Standard of WHA Saraburi Industrial Land, Maximum levels for wastewater discharging to central wastewater treatment plant.
Sampling By : Panupong Sanet ทะเบียนเลขที่ ว-204-ว-0204

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

Technical Management Siriluk P. — Siriluk Bunnak, Section Head, ทะเบียนเลขที่ ว-204-ว-0013
Approved by Kanokkorn Anek, Assistant General Manager, ทะเบียนเลขที่ ว-204-ต-0004

Analysis / Test Report

TESTING No.0009

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name : Factory I Monthly
Project Location: WHA SIL

Lot ID: 2559802
Date Received : Jul 02, 2025
Date Reported : Jul 09, 2025
Report Number : 3340754-1

Page 1 of 1

Sample Number: 2559802-1
Sampled Date: Jul 02, 2025 11:30 AM
Sample Description: Group 2 Wastewater WW-CT
Contract ID: SIL_017_2554 **Plot** 42,79,98 **Site** Siam Gypsum Industry (Saraburi) Co.,Ltd.
Location: Factory 2
Date Analysis Commenced: Jul 03, 2025
Condition of Sample: Contained in one amber glass bottle and three plastic bottles. sample containers comply to pretreatment - preservation standards (APHA/USEPA)
Physical Property: Yellow, a lot of odour, solid, and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2.0	19.8	≤500	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Bangkok
COD	mg/L	-	25	96	≤750	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
Oil & Grease	mg/L	-	3	3	≤10	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Bangkok
pH (on site) *		-	-	7.6	5.5-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Temperature *	Degree C	-	-	32.0	≤45	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	32	≤200	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

Guideline : Standard of WHA Saraburi Industrial Land, Maximum levels for wastewater discharging to central wastewater treatment plant.
Sampling By : Teerawat Puangsuk ทะเบียนเลขที่ ว-204-ว-0058

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

Technical Management Siriluk P. — Siriluk Bunnak, Section Head, ทะเบียนเลขที่ ว-204-ว-0013
Approved by Kanokkorn Anek, Assistant General Manager, ทะเบียนเลขที่ ว-204-ต-0004

Analysis / Test Report

TESTING No.0009

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name : Factory I Monthly
Project Location: WHA SIL

Lot ID: 2559852
Date Received : Jul 02, 2025
Date Reported : Jul 09, 2025
Report Number : 3340813-1

Page 1 of 1

Sample Number: 2559852-1
Sampled Date: Jul 02, 2025 11:06 AM
Sample Description: Group 2 Wastewater WW-CT
Contract ID: SIL_005_2562 **Plot** 63 **Site** Siam Hanamaruki Co.,Ltd.
Location: (บ่อ 59)
Date Analysis Commenced: Jul 03, 2025
Condition of Sample: Contained in one amber glass bottle and three plastic bottles. sample containers comply to pretreatment - preservation standards (APHA/USEPA)
Physical Property: Yellow, a lot of odour, solid, and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2.0	54.4	≤500	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Bangkok
COD	mg/L	-	25	126	≤750	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
Oil & Grease	mg/L	-	3	6	≤10	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Bangkok
pH (on site) *		-	-	7.7	5.5-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Temperature *	Degree C	-	-	32.3	≤45	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	46	≤200	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

Guideline : Standard of WHA Saraburi Industrial Land, Maximum levels for wastewater discharging to central wastewater treatment plant.
Sampling By : Teerawat Puangsuk ทะเบียนเลขที่ ว-204-ว-0058

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

Technical Management Siriluk P. — Siriluk Bunnak, Section Head, ทะเบียนเลขที่ ว-204-ว-0013
Approved by Kanokkorn Anek, Assistant General Manager, ทะเบียนเลขที่ ว-204-ต-0004

Analysis / Test Report

TESTING No.0009

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name : Factory I Monthly
Project Location: WHA SIL

Lot ID: 2559804
Date Received : Jul 02, 2025
Date Reported : Jul 09, 2025
Report Number : 3340757-1

Page 1 of 1

Sample Number: 2559804-1
Sampled Date: Jul 02, 2025 11:45 AM
Sample Description: Group 2 Wastewater WW-CT
Contract ID: SIL_020_2554 **Plot** 74 **Site** Siam NGK Technocera Co.,Ltd.
Date Analysis Commenced: Jul 03, 2025
Condition of Sample: Contained in one amber glass bottle and three plastic bottles. sample containers comply to pretreatment - preservation standards (APHA/USEPA)
Physical Property: Yellow, some odour, solid and no turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2.0	16.4	≤500	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Bangkok
COD	mg/L	-	25	63	≤750	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
Oil & Grease	mg/L	-	3	3	≤10	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Bangkok
pH (on site) *		-	-	7.6	5.5-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Temperature *	Degree C	-	-	30.0	≤45	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	18	≤200	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

Guideline : Standard of WHA Saraburi Industrial Land, Maximum levels for wastewater discharging to central wastewater treatment plant.
Sampling By : Panupong Sanet ทะเบียนเลขที่ ว-204-ว-0204

Remark :
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Technical Management Siriluk P. — Siriluk Bunnak, Section Head, ทะเบียนเลขที่ ว-204-ว-0013
Approved by Kanokkorn Anek, Assistant General Manager, ทะเบียนเลขที่ ว-204-ต-0004

Analysis / Test Report

TESTING No.0009

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name : Factory I Monthly
Project Location: WHA SIL

Lot ID: 2559805
Date Received : Jul 03, 2025
Date Reported : Jul 11, 2025
Report Number : 3340758-1

Page 1 of 1

Sample Number: 2559805-1
Sampled Date: Jul 03, 2025 1:20 PM
Sample Description: Group 2 Wastewater WW-CT
Contract ID: SIL_021_2554 **Plot** 56 **Site** Siam Totsu Ceramics Co.,Ltd.
Date Analysis Commenced: Jul 04, 2025
Condition of Sample: Contained in one amber glass bottle and three plastic bottles. sample containers comply to pretreatment - preservation standards (APHA/USEPA)
Physical Property: Yellow, some odour, a lot of solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2.0	20.0	≤500	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Bangkok
COD	mg/L	-	25	90	≤750	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
Oil & Grease	mg/L	-	3	3	≤10	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Bangkok
pH (on site) *		-	-	7.5	5.5-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Temperature *	Degree C	-	-	30.6	≤45	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	156	≤200	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

Guideline : Standard of WHA Saraburi Industrial Land, Maximum levels for wastewater discharging to central wastewater treatment plant.
Sampling By : Panupong Sanet ทะเบียนเลขที่ ว-204-ว-0204

Remark :
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Technical Management Siriluk P. — Siriluk Bunnak, Section Head, ทะเบียนเลขที่ ว-204-ว-0013
Approved by Kanokkorn Anek, Assistant General Manager, ทะเบียนเลขที่ ว-204-ต-0004

Analysis / Test Report

TESTING No.0009

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name : Factory I Monthly
Project Location: WHA SIL

Lot ID: 2559823
Date Received : Jul 03, 2025
Date Reported : Jul 11, 2025
Report Number : 3340776-1

Page 1 of 1

Sample Number: 2559823-1
Sampled Date: Jul 03, 2025 9:45 AM
Sample Description: Group 2 Wastewater WW-CT
Contract ID: SIL_046_2556 **Plot** 132 **Site** SLIK (Thailand) Co.,Ltd.
Date Analysis Commenced: Jul 04, 2025
Condition of Sample: Contained in one amber glass bottle and three plastic bottles. sample containers comply to pretreatment - preservation standards (APHA/USEPA)
Physical Property: Yellow, some odour, solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2.0	20.0	≤500	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Bangkok
COD	mg/L	-	25	107	≤750	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
Oil & Grease	mg/L	-	3	3	≤10	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Bangkok
pH (on site) *		-	-	7.7	5.5-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Temperature *	Degree C	-	-	29.6	≤45	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	27	≤200	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

Guideline : Standard of WHA Saraburi Industrial Land, Maximum levels for wastewater discharging to central wastewater treatment plant.
Sampling By : Panupong Sanet ทะเบียนเลขที่ ว-204-ว-0204

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Technical Management Siriluk P. — Siriluk Bunnak, Section Head, ทะเบียนเลขที่ ว-204-ว-0013
Approved by Kanokkorn Anek, Assistant General Manager, ทะเบียนเลขที่ ว-204-ต-0004

Analysis / Test Report

TESTING No.0009

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name : Factory I Monthly
Project Location: WHA SIL

Lot ID: 2559854
Date Received : Jul 09, 2025
Date Reported : Jul 17, 2025
Report Number : 3340815-1

Page 1 of 1

Sample Number: 2559854-1
Sampled Date: Jul 09, 2025 2:00 PM
Sample Description: Group 2 Wastewater WW-CT
Contract ID: SIL_003_2565 **Plot** 139-140 **Site** TERAHOP (THAILAND) CO., LTD.
Date Analysis Commenced: Jul 10, 2025
Condition of Sample: Contained in one amber glass bottle and three plastic bottles. sample containers comply to pretreatment - preservation standards (APHA/USEPA)
Physical Property: Yellow, a lot of odour, some solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2.0	13.3	≤500	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Bangkok
COD	mg/L	-	25	74	≤750	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Bangkok
pH (on site) *		-	-	7.6	5.5-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Temperature *	Degree C	-	-	31.9	≤45	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	124	≤200	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

Guideline : Standard of WHA Saraburi Industrial Land, Maximum levels for wastewater discharging to central wastewater treatment plant.
Sampling By : Panupong Sanet ทะเบียนเลขที่ ว-204-ว-0204

Remark :
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Technical Management Suwimon C. — Suwimon Chansangjant, Scientist (3), ทะเบียนเลขที่ ว-204-ว-0018
Approved by Kanokkorn Anek, Assistant General Manager, ทะเบียนเลขที่ ว-204-ต-0004

Analysis / Test Report

TESTING No.0009

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name : Factory I Monthly
Project Location: WHA SIL

Lot ID: 2559807
Date Received : Jul 03, 2025
Date Reported : Jul 11, 2025
Report Number : 3340760-1

Page 1 of 1

Sample Number: 2559807-1
Sampled Date: Jul 03, 2025 2:05 PM
Sample Description: Group 2 Wastewater WW-CT
Contract ID: SIL_024_2554 **Plot** 23 **Site** Thai Beverage Can Co.,Ltd.
Location: Point 2
Date Analysis Commenced: Jul 04, 2025
Condition of Sample: Contained in one amber glass bottle and three plastic bottles. sample containers comply to pretreatment - preservation standards (APHA/USEPA)
Physical Property: Colorless, some odour, solid and no turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2.0	<2.0	≤500	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Bangkok
COD	mg/L	-	25	31	≤750	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
Oil & Grease	mg/L	-	3	3	≤10	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Bangkok
pH (on site) *		-	-	7.5	5.5-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Temperature *	Degree C	-	-	31.4	≤45	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	7	≤200	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

Guideline : Standard of WHA Saraburi Industrial Land, Maximum levels for wastewater discharging to central wastewater treatment plant.
Sampling By : Panupong Sanet ทะเบียนเลขที่ ว-204-ว-0204

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Technical Management Siriluk P. — Siriluk Bunnak, Section Head, ทะเบียนเลขที่ ว-204-ว-0013
Approved by Kanokkorn Anek, Assistant General Manager, ทะเบียนเลขที่ ว-204-ต-0004

Analysis / Test Report

TESTING No.0009

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name : Factory I Monthly
Project Location: WHA SIL

Lot ID: 2559861
Date Received : Jul 03, 2025
Date Reported : Jul 11, 2025
Report Number : 3340823-1

Page 1 of 1

Sample Number: 2559861-1
Sampled Date: Jul 03, 2025 2:10 PM
Sample Description: Group 2 Wastewater WW-CT
Contract ID: SIL_013_2566 **Plot** 25 **Site** Thai Beverage Can Co.,Ltd.
Date Analysis Commenced: Jul 04, 2025
Condition of Sample: Contained in one amber glass bottle and three plastic bottles. sample containers comply to pretreatment - preservation standards (APHA/USEPA)
Physical Property: Yellow, some odour, solid and no turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2.0	5.0	≤500	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Bangkok
COD	mg/L	-	25	78	≤750	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
Oil & Grease	mg/L	-	3	4	≤10	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Bangkok
pH (on site) *		-	-	8.1	5.5-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Temperature *	Degree C	-	-	32.8	≤45	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	17	≤200	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

Guideline : Standard of WHA Saraburi Industrial Land, Maximum levels for wastewater discharging to central wastewater treatment plant.
Sampling By : Panupong Sanet ทะเบียนเลขที่ ว-204-ว-0204

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

Technical Management Siriluk P. — Siriluk Bunnak, Section Head, ทะเบียนเลขที่ ว-204-ว-0013
Approved by Kanokkorn Anek, Assistant General Manager, ทะเบียนเลขที่ ว-204-ต-0004

Analysis / Test Report

TESTING No.0009

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name : Factory I Monthly
Project Location: WHA SIL

Lot ID: 2559862
Date Received : Jul 09, 2025
Date Reported : Jul 17, 2025
Report Number : 3340825-1

Sample Number	2559862-1
Sampled Date	Jul 09, 2025 10:00 AM
Sample Description	Group 2 Wastewater WW-CT
Contract ID	SIL_001_2567 **Plot** 136/1 **Site** Thai Inaba Foods (Thailand) Co., Ltd.
Date Analysis Commenced	Jul 10, 2025
Condition of Sample	Contained in one amber glass bottle and three plastic bottles. sample containers comply to pretreatment - preservation standards (APHA/USEPA)
Physical Property	Yellow, a lot of odour, some solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2.0	194	≤500	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Bangkok
COD	mg/L	-	25	396	≤750	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
Oil & Grease	mg/L	-	3	7	≤10	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Bangkok
pH (on site) *		-	-	7.0	5.5-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Temperature *	Degree C	-	-	31.6	≤45	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	74	≤200	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

Guideline : Standard of WHA Saraburi Industrial Land, Maximum levels for wastewater discharging to central wastewater treatment plant.
Sampling By : Panupong Sanet ทะเบียนเลขที่ ว-204-ว-0204

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

Technical Management Suwimon C.
Suwimon Chairuangwut
Scientist (3)
ทะเบียนเลขที่ ว-204-ว-0018

Approved by Kanokkorn Anek
Kanokkorn Anek
Assistant General Manager
ทะเบียนเลขที่ ว-204-ต-0004

Analysis / Test Report

TESTING No.0009

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name : Factory I Monthly
Project Location: WHA SIL

Lot ID: 2559827
Date Received : Jul 09, 2025
Date Reported : Jul 17, 2025
Report Number : 3340784-1

Sample Number	2559827-1
Sampled Date	Jul 09, 2025 9:50 AM
Sample Description	Group 2 Wastewater WW-CT
Contract ID	SIL_050_2556 **Plot** 133 **Site** Thai Inaba Foods (Thailand) Co.,Ltd. (1st)
Date Analysis Commenced	Jul 10, 2025
Condition of Sample	Contained in one amber glass bottle and three plastic bottles. sample containers comply to pretreatment - preservation standards (APHA/USEPA)
Physical Property	Yellow, a lot of odour, some solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2.0	183	≤500	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Bangkok
COD	mg/L	-	25	565	≤750	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Bangkok
pH (on site) *		-	-	6.9	5.5-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Temperature *	Degree C	-	-	34.4	≤45	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	34	≤200	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

Guideline : Standard of WHA Saraburi Industrial Land, Maximum levels for wastewater discharging to central wastewater treatment plant.
Sampling By : Panupong Sanet ทะเบียนเลขที่ ว-204-ว-0204

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

Technical Management Suwimon C.
Suwimon Chairuangwut
Scientist (3)
ทะเบียนเลขที่ ว-204-ว-0018

Approved by Kanokkorn Anek
Kanokkorn Anek
Assistant General Manager
ทะเบียนเลขที่ ว-204-ต-0004

Analysis / Test Report

TESTING No.0009

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name : Factory I Monthly
Project Location: WHA SIL

Lot ID: 2559810
Date Received : Jul 01, 2025
Date Reported : Jul 08, 2025
Report Number : 3340763-1

Sample Number	2559810-1
Sampled Date	Jul 01, 2025 9:20 AM
Sample Description	Group 2 Wastewater WW-CT
Contract ID	SIL_026_2554 **Plot** 37,38 **Site** Thai Malaya Glass (Thailand) Co.,Ltd.
Date Analysis Commenced	Jul 02, 2025
Condition of Sample	Contained in one amber glass bottle and three plastic bottles. sample containers comply to pretreatment - preservation standards (APHA/USEPA)
Physical Property	Yellow, some odour, solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2.0	6.2	≤500	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Bangkok
COD	mg/L	-	25	47	≤750	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Bangkok
pH (on site) *		-	-	7.7	5.5-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Temperature *	Degree C	-	-	29.8	≤45	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	7	≤200	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

Guideline : Standard of WHA Saraburi Industrial Land, Maximum levels for wastewater discharging to central wastewater treatment plant.
Sampling By : Teerawat Puangsuk ทะเบียนเลขที่ ว-204-ว-0058

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

Technical Management Siriluk P.
Siriluk Bunnak
Section Head
ทะเบียนเลขที่ ว-204-ว-0013

Approved by Kanokkorn Anek
Kanokkorn Anek
Assistant General Manager
ทะเบียนเลขที่ ว-204-ต-0004

Analysis / Test Report

TESTING No.0009

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name : Factory I Monthly
Project Location: WHA SIL

Lot ID: 2559842
Date Received : Jul 01, 2025
Date Reported : Jul 08, 2025
Report Number : 3340800-1

Sample Number	2559842-1
Sampled Date	Jul 01, 2025 9:50 AM
Sample Description	Group 2 Wastewater WW-CT
Contract ID	SIL_001_2558 **Plot** 45, 46,143 **Site** Thai Malaya Glass (Thailand) Co.,Ltd.
Date Analysis Commenced	Jul 02, 2025
Condition of Sample	Contained in one amber glass bottle and three plastic bottles. sample containers comply to pretreatment - preservation standards (APHA/USEPA)
Physical Property	Yellow, some odour, solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2.0	10.1	≤500	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Bangkok
COD	mg/L	-	25	46	≤750	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
Oil & Grease	mg/L	-	3	4	≤10	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Bangkok
pH (on site) *		-	-	7.6	5.5-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Temperature *	Degree C	-	-	30.5	≤45	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	48	≤200	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

Guideline : Standard of WHA Saraburi Industrial Land, Maximum levels for wastewater discharging to central wastewater treatment plant.
Sampling By : Teerawat Puangsuk ทะเบียนเลขที่ ว-204-ว-0058

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

Technical Management Siriluk P.
Siriluk Bunnak
Section Head
ทะเบียนเลขที่ ว-204-ว-0013

Approved by Kanokkorn Anek
Kanokkorn Anek
Assistant General Manager
ทะเบียนเลขที่ ว-204-ต-0004

Analysis / Test Report

TESTING No.0009

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name : Factory I Monthly
Project Location: WHA SIL

Lot ID: 2559891
Date Received : Jul 03, 2025
Date Reported : Jul 11, 2025
Report Number : 3340876-1

Sample Number	2559891-1
Sampled Date	Jul 03, 2025 10:50 AM
Sample Description	Group 2 Wastewater WW-CT
Contract ID	SIL_004_2554 **Plot** 7, 141 **Site** Thai Rayon Public Limited Company
Date Analysis Commenced	Jul 04, 2025
Condition of Sample	Contained in one amber glass bottle and four plastic bottles. sample containers comply to pretreatment - preservation standards (APHA/USEPA)
Physical Property	Yellow, some odour, solid and no turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2.0	19.8	≤500	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Bangkok
COD	mg/L	-	25	88	≤750	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
Oil & Grease *	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5520 D	Bangkok
pH (on site) *		-	-	7.2	5.5-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Sulfide *	mg/L	-	0.5	<0.5	≤1	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500-S2 (C, F)	Bangkok
Temperature *	Degree C	-	-	32.1	≤45	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	<5	≤200	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

Guideline : Standard of WHA Saraburi Industrial Land, Maximum levels for wastewater discharging to central wastewater treatment plant.
Sampling By : Panupong Sanet ทะเบียนเลขที่ ว-204-ว-0204

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

Technical Management Siriluk P.
Siriluk Bunnak
Section Head
ทะเบียนเลขที่ ว-204-ว-0013

Approved by Kanokkorn Anek
Kanokkorn Anek
Assistant General Manager
ทะเบียนเลขที่ ว-204-ต-0004

Analysis / Test Report

TESTING No.0009

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name : Factory I Monthly
Project Location: WHA SIL

Lot ID: 2559891
Date Received : Jul 03, 2025
Date Reported : Jul 11, 2025
Report Number : 3340876-1

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

Technical Management Siriluk P.
Siriluk Bunnak
Section Head
ทะเบียนเลขที่ ว-204-ว-0013

Approved by Kanokkorn Anek
Kanokkorn Anek
Assistant General Manager
ทะเบียนเลขที่ ว-204-ต-0004

Analysis / Test Report

TESTING No.0009

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name : Factory I Monthly
Project Location: WHA SIL

Lot ID: 2559849
Date Received : Jul 02, 2025
Date Reported : Jul 09, 2025
Report Number : 3340810-1

Sample Number	2559849-1
Sampled Date	Jul 02, 2025 9:40 AM
Sample Description	Group 2 Wastewater WW-CT
Contract ID	SIL_009_2560 **Plot** 70,71,73 **Site** The Siam Cement (Thaluang) Co.,Ltd.
Date Analysis Commenced	Jul 03, 2025
Condition of Sample	Contained in one amber glass bottle and three plastic bottles. sample containers comply to pretreatment - preservation standards (APHA/USEPA)
Physical Property	Yellow, some odour, no solid, and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2.0	6.7	≤500	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Bangkok
COD	mg/L	-	25	37	≤750	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Bangkok
pH (on site) *		-	-	7.2	5.5-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Temperature *	Degree C	-	-	30.5	≤45	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	8	≤200	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

Guideline : Standard of WHA Saraburi Industrial Land, Maximum levels for wastewater discharging to central wastewater treatment plant.
Sampling By : Teerawat Puangsuk ทะเบียนเลขที่ ว-204-ว-0058

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

Technical Management Siriluk P.
Siriluk Bunnak
Section Head
ทะเบียนเลขที่ ว-204-ว-0013

Approved by Kanokkorn Anek
Kanokkorn Anek
Assistant General Manager
ทะเบียนเลขที่ ว-204-ต-0004

Analysis / Test Report

TESTING No.0009

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name : Factory I Monthly
Project Location: WHA SIL

Lot ID: 2559809
Date Received : Jul 02, 2025
Date Reported : Jul 09, 2025
Report Number : 3340762-1

Sample Number	2559809-1
Sampled Date	Jul 02, 2025 10:00 AM
Sample Description	Group 2 Wastewater WW-CT
Contract ID	SIL_027_2554 **Plot** 53,60 **Site** Tiemenz (Thailand) Corp.,Ltd.
Date Analysis Commenced	Jul 03, 2025
Condition of Sample	Contained in one amber glass bottle and three plastic bottles. sample containers comply to pretreatment - preservation standards (APHA/USEPA)
Physical Property	Yellow, some odour, a lot of solid, and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2.0	19.8	≤500	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Bangkok
COD	mg/L	-	25	108	≤750	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
Oil & Grease	mg/L	-	3	6	≤10	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Bangkok
pH (on site) *		-	-	7.3	5.5-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Temperature *	Degree C	-	-	30.1	≤45	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	60	≤200	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

Guideline : Standard of WHA Saraburi Industrial Land, Maximum levels for wastewater discharging to central wastewater treatment plant.
Sampling By : Teerawat Puangsuk ทะเบียนเลขที่ ว-204-ว-0058

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

Technical Management Siriluk P.
Siriluk Bunnak
Section Head
ทะเบียนเลขที่ ว-204-ว-0013

Approved by Kanokkorn Anek
Kanokkorn Anek
Assistant General Manager
ทะเบียนเลขที่ ว-204-ต-0004

Analysis / Test Report

TESTING No.0009

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name : Factory I Monthly
Project Location: WHA SIL

Lot ID: 2559829
Date Received : Jul 09, 2025
Date Reported : Jul 17, 2025
Report Number : 3340786-1

Sample Number	2559829-1
Sampled Date	Jul 09, 2025 11:35 AM
Sample Description	Group 2 Wastewater WW-CT
Contract ID	SIL_061_2556 **Plot** 147 **Site** TS Tech (Thailand) Co.,Ltd.
Date Analysis Commenced	Jul 10, 2025
Condition of Sample	Contained in one amber glass bottle and three plastic bottles. sample containers comply to pretreatment - preservation standards (APHA/USEPA)
Physical Property	Yellow, a lot of odour, some solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2.0	18.2	≤500	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Bangkok
COD	mg/L	-	25	59	≤750	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Bangkok
pH (on site) *		-	-	7.7	5.5-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Temperature *	Degree C	-	-	29.4	≤45	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	23	≤200	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

Guideline : Standard of WHA Saraburi Industrial Land, Maximum levels for wastewater discharging to central wastewater treatment plant.
Sampling By : Panupong Sanet ทะเบียนเลขที่ ว-204-ว-0204

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

Technical Management Suwimon C.
Suwimon Chairuangwut
Scientist (3)
ทะเบียนเลขที่ ว-204-ว-0018

Approved by Kanokkorn Anek
Kanokkorn Anek
Assistant General Manager
ทะเบียนเลขที่ ว-204-ต-0004

Analysis / Test Report

TESTING No.0009

Lot ID: 2559798
Date Received : Jul 09, 2025
Date Reported : Jul 17, 2025
Report Number : 3340747-1

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name : Factory I Monthly
Project Location: WHA SIL

Page 1 of 1

Sample Number	2559798-1
Sampled Date	Jul 09, 2025 1:50 PM
Sample Description	Group 2 Wastewater WW-CT
Contract ID	SIL_012_2554 **Plot** 4,32 **Site** Villeroy & Boch (Thailand) Co.,Ltd
Date Analysis Commenced	Jul 09, 2025
Condition of Sample	Contained in one amber glass bottle and three plastic bottles. sample containers comply to pretreatment - preservation standards (APHA/USEPA)
Physical Property	Yellow, some odour, solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2.0	87.9	≤500	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Bangkok
COD	mg/L	-	25	149	≤750	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
Oil & Grease	mg/L	-	3	6	≤10	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Bangkok
pH (on site) *		-	-	7.4	5.5-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Temperature *	Degree C	-	-	32.1	≤45	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	30	≤200	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

Guideline : Standard of WHA Saraburi Industrial Land, Maximum levels for wastewater discharging to central wastewater treatment plant.
Sampling By : Panupong Sanei ทะเบียนเลขที่ ว-204-ว-0204

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

Technical Management Suwimon C. — Suwimon Chairuangwut, Scientist (3), ทะเบียนเลขที่ ว-204-ว-0018
Approved by Kanokkorn Anek, Assistant General Manager, ทะเบียนเลขที่ ว-204-ว-0004

Analysis / Test Report

TESTING No.0009

Lot ID: 2559832
Date Received : Jul 02, 2025
Date Reported : Jul 09, 2025
Report Number : 3340789-1

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name : Factory I Monthly
Project Location: WHA SIL

Page 1 of 1

Sample Number	2559832-1
Sampled Date	Jul 02, 2025 9:10 AM
Sample Description	Group 2 Wastewater WW-CT
Contract ID	SIL_075_2557 **Plot** 93A/1 **Site** WHA Corporation Public Limited Company
Date Analysis Commenced	Jul 03, 2025
Condition of Sample	Contained in one amber glass bottle and three plastic bottles. sample containers comply to pretreatment - preservation standards (APHA/USEPA)
Physical Property	Yellow, a lot of odour, some solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2.0	88.0	≤500	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Bangkok
COD	mg/L	-	25	146	≤750	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
Oil & Grease	mg/L	-	3	3	≤10	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Bangkok
pH (on site) *		-	-	7.9	5.5-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Temperature *	Degree C	-	-	30.5	≤45	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	30	≤200	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

Guideline : Standard of WHA Saraburi Industrial Land, Maximum levels for wastewater discharging to central wastewater treatment plant.
Sampling By : Panupong Sanei ทะเบียนเลขที่ ว-204-ว-0204

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

Technical Management Siriluk P. — Siriluk Bunnak, Section Head, ทะเบียนเลขที่ ว-204-ว-0013
Approved by Kanokkorn Anek, Assistant General Manager, ทะเบียนเลขที่ ว-204-ว-0004

Analysis / Test Report

TESTING No.0009

Lot ID: 2559834
Date Received : Jul 02, 2025
Date Reported : Jul 09, 2025
Report Number : 3340791-1

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name : Factory I Monthly
Project Location: WHA SIL

Page 1 of 1

Sample Number	2559834-1
Sampled Date	Jul 02, 2025 11:45 AM
Sample Description	Group 2 Wastewater WW-CT
Contract ID	SIL_037_2556 **Plot** 151-152 **Site** WHA Corporation Public Limited Company
Date Analysis Commenced	Jul 03, 2025
Condition of Sample	Contained in one amber glass bottle and three plastic bottles. sample containers comply to pretreatment - preservation standards (APHA/USEPA)
Physical Property	Yellow, a lot of odour, solid, and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2.0	67.0	≤500	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Bangkok
COD	mg/L	-	25	194	≤750	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
Oil & Grease	mg/L	-	3	5	≤10	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Bangkok
pH (on site) *		-	-	7.4	5.5-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Temperature *	Degree C	-	-	31.2	≤45	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	90	≤200	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

Guideline : Standard of WHA Saraburi Industrial Land, Maximum levels for wastewater discharging to central wastewater treatment plant.
Sampling By : Teerawat Puangsuk ทะเบียนเลขที่ ว-204-ว-0058

Remark :
- LOD : Limit of Detection
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- Sampling is not included in scope of accreditation ISO/IEC 17025

Technical Management Siriluk P. — Siriluk Bunnak, Section Head, ทะเบียนเลขที่ ว-204-ว-0013
Approved by Kanokkorn Anek, Assistant General Manager, ทะเบียนเลขที่ ว-204-ว-0004

Analysis / Test Report

TESTING No.0009

Lot ID: 2559814
Date Received : Jul 02, 2025
Date Reported : Jul 09, 2025
Report Number : 3340768-1

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name : Factory I Monthly
Project Location: WHA SIL

Page 1 of 1

Sample Number	2559814-1
Sampled Date	Jul 02, 2025 11:40 AM
Sample Description	Group 2 Wastewater WW-CT
Contract ID	SIL_074_2557 **Plot** 153-154 **Site** WHA Corporation Public Limited Company
Date Analysis Commenced	Jul 03, 2025
Condition of Sample	Contained in one amber glass bottle and three plastic bottles. sample containers comply to pretreatment - preservation standards (APHA/USEPA)
Physical Property	Yellow, a lot of odour, solid, and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2.0	89.4	≤500	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Bangkok
COD	mg/L	-	25	230	≤750	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
Oil & Grease	mg/L	-	3	4	≤10	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Bangkok
pH (on site) *		-	-	7.5	5.5-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Temperature *	Degree C	-	-	31.5	≤45	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	143	≤200	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

Guideline : Standard of WHA Saraburi Industrial Land, Maximum levels for wastewater discharging to central wastewater treatment plant.
Sampling By : Teerawat Puangsuk ทะเบียนเลขที่ ว-204-ว-0058

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

Technical Management Siriluk P. — Siriluk Bunnak, Section Head, ทะเบียนเลขที่ ว-204-ว-0013
Approved by Kanokkorn Anek, Assistant General Manager, ทะเบียนเลขที่ ว-204-ว-0004

Analysis / Test Report

TESTING No.0009

Lot ID: 2559815
Date Received : Jul 03, 2025
Date Reported : Jul 11, 2025
Report Number : 3340770-1

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name : Factory I Monthly
Project Location: WHA SIL

Page 1 of 1

Sample Number	2559815-1
Sampled Date	Jul 03, 2025 11:45 AM
Sample Description	Group 2 Wastewater WW-CT
Contract ID	SIL_069_2557 **Plot** 27(F) **Site** World Quality Co.,Ltd
Location	Point 1
Date Analysis Commenced	Jul 04, 2025
Condition of Sample	Contained in one amber glass bottle and three plastic bottles. sample containers comply to pretreatment - preservation standards (APHA/USEPA)
Physical Property	Yellow, a lot of odour, some solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2.0	128	≤500	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Bangkok
COD	mg/L	-	25	212	≤750	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
Oil & Grease	mg/L	-	3	4	≤10	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Bangkok
pH (on site) *		-	-	7.5	5.5-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Temperature *	Degree C	-	-	29.6	≤45	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	49	≤200	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

Guideline : Standard of WHA Saraburi Industrial Land, Maximum levels for wastewater discharging to central wastewater treatment plant.
Sampling By : Panupong Sanei ทะเบียนเลขที่ ว-204-ว-0204

Remark :
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Technical Management Siriluk P. — Siriluk Bunnak, Section Head, ทะเบียนเลขที่ ว-204-ว-0013
Approved by Kanokkorn Anek, Assistant General Manager, ทะเบียนเลขที่ ว-204-ว-0004

Analysis / Test Report

TESTING No.0009

Lot ID: 2569404
Date Received : Aug 01, 2025
Date Reported : Aug 07, 2025
Report Number : 3365386-1

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name : Factory I Monthly
Project Location: WHA SIL

Page 1 of 1

Sample Number	2569404-1
Sampled Date	Aug 01, 2025 9:50 AM
Sample Description	Group 2 Wastewater WW-CT
Contract ID	SIL_001_2554 **Plot** 1 **Site** Air Liquide (Thailand) Co.,Ltd
Date Analysis Commenced	Aug 02, 2025
Condition of Sample	Contained in one amber glass bottle and three plastic bottles. sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property	Yellow, some odour, solid and no turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2.0	3.3	≤500	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Bangkok
COD	mg/L	-	25	35	≤750	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Bangkok
pH (on site) *		-	-	8.2	5.5-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Temperature *	Degree C	-	-	32.3	≤45	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	9	≤200	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

Guideline : Standard of WHA Saraburi Industrial Land, Maximum levels for wastewater discharging to central wastewater treatment plant.
Sampling By : Panupong Sanei ทะเบียนเลขที่ ว-204-ว-0204

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

Technical Management Suwimon C. — Suwimon Chairuangwut, Scientist (3), ทะเบียนเลขที่ ว-204-ว-0018
Approved by Kanokkorn Anek, Assistant General Manager, ทะเบียนเลขที่ ว-204-ว-0004

Analysis / Test Report

TESTING No.0009

Lot ID: 2569436
Date Received : Aug 01, 2025
Date Reported : Aug 08, 2025
Report Number : 3365459-1

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name : Factory I Monthly
Project Location: WHA SIL

Page 1 of 1

Sample Number	2569436-1
Sampled Date	Aug 01, 2025 11:30 AM
Sample Description	Group 2 Wastewater WW-CT
Contract ID	SIL_043_2556 **Plot** 93D **Site** Daiyu Seat (Thailand) Co.,Ltd
Date Analysis Commenced	Aug 02, 2025
Condition of Sample	Contained in one amber glass bottle and three plastic bottles. sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property	Yellow, a lot of odour, solid and some turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2.0	6.2	≤500	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Bangkok
COD	mg/L	-	25	46	≤750	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Bangkok
pH (on site) *		-	-	7.6	5.5-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Temperature *	Degree C	-	-	33.2	≤45	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	28	≤200	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

Guideline : Standard of WHA Saraburi Industrial Land, Maximum levels for wastewater discharging to central wastewater treatment plant.
Sampling By : Teerawat Puangsuk ทะเบียนเลขที่ ว-204-ว-0058

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

Technical Management Suwimon C. — Suwimon Chairuangwut, Scientist (3), ทะเบียนเลขที่ ว-204-ว-0018
Approved by Kanokkorn Anek, Assistant General Manager, ทะเบียนเลขที่ ว-204-ว-0004

Analysis / Test Report

TESTING No.0009

Lot ID: 2569462
Date Received : Aug 01, 2025
Date Reported : Aug 08, 2025
Report Number : 3365559-1

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name : Factory I Monthly
Project Location: WHA SIL

Page 1 of 1

Sample Number	2569462-1
Sampled Date	Aug 01, 2025 1:15 PM
Sample Description	Group 2 Wastewater WW-CT
Contract ID	SIL_004_2560 **Plot** 48,84 **Site** D-HAPPENNING COMPANY LIMITED
Date Analysis Commenced	Aug 02, 2025
Condition of Sample	Contained in one amber glass bottle and three plastic bottles. sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property	Yellow, some odour, solid and no turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2.0	<2.0	≤500	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Bangkok
COD	mg/L	-	25	<25	≤750	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Bangkok
pH (on site) *		-	-	7.6	5.5-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Temperature *	Degree C	-	-	30.5	≤45	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	7	≤200	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

Guideline : Standard of WHA Saraburi Industrial Land, Maximum levels for wastewater discharging to central wastewater treatment plant.
Sampling By : Chawanthat Nakpanom ทะเบียนเลขที่ ว-204-ว-0087

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

Technical Management Siriluk P. — Siriluk Bunnak, Section Head, ทะเบียนเลขที่ ว-204-ว-0013
Approved by Kanokkorn Anek, Assistant General Manager, ทะเบียนเลขที่ ว-204-ว-0004

Analysis / Test Report

TESTING No.0009

Lot ID: 2569406
Date Received : Aug 01, 2025
Date Reported : Aug 08, 2025
Report Number : 3365396-1

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name : Factory I Monthly
Project Location: WHA SIL

Page 1 of 1

Sample Number	2569406-1
Sampled Date	Aug 01, 2025 9:35 AM
Sample Description	Group 2 Wastewater WW-CT
Contract ID	SIL_003_2554 **Plot** 34 **Site** D-Rubber Products Co.,Ltd
Date Analysis Commenced	Aug 02, 2025
Condition of Sample	Contained in one amber glass bottle and three plastic bottles. sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property	White, a lot of odour, solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2.0	209	≤500	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Bangkok
COD	mg/L	-	25	696	≤750	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Bangkok
pH (on site) *		-	-	7.7	5.5-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Temperature *	Degree C	-	-	38.2	≤45	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	82	≤200	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

Guideline : Standard of WHA Saraburi Industrial Land, Maximum levels for wastewater discharging to central wastewater treatment plant.
Sampling By : Chawanthat Nakpanom ทะเบียนเลขที่ ว-204-ว-0087

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

Technical Management Suwimon C. — Suwimon Chairuangwut, Scientist (3), ทะเบียนเลขที่ ว-204-ว-0018
Approved by Kanokkorn Anek, Assistant General Manager, ทะเบียนเลขที่ ว-204-ว-0004

Analysis / Test Report

TESTING No.0009

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name : Factory I Monthly
Project Location: WHA SIL

Lot ID: 2569407
Date Received : Aug 01, 2025
Date Reported : Aug 08, 2025
Report Number : 3365398-1

Page 1 of 1

Sample Number	2569407-1
Sampled Date	Aug 01, 2025 11:05 AM
Sample Description	Group 2 Wastewater WW-CT
Contract ID	SIL_004_2554 **Plot** 39 **Site** DSG International (Thailand) PLC.
Date Analysis Commenced	Aug 02, 2025
Condition of Sample	Contained in one amber glass bottle and three plastic bottles. sample containers comply to pretreatment - preservation standards (APHA/USEPA)
Physical Property	Yellow, some odour, solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2.0	7.0	≤500	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Bangkok
COD	mg/L	-	25	86	≤750	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
Oil & Grease	mg/L	-	3	7	≤10	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Bangkok
pH (on site) *		-	-	7.4	5.5-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Temperature *	Degree C	-	-	32.3	≤45	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	34	≤200	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

Guideline : Standard of WHA Saraburi Industrial Land, Maximum levels for wastewater discharging to central wastewater treatment plant.
Sampling By : Teerawat Puangsuk ทะเบียนเลขที่ ว-204-ว-0058

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

Technical Management Suwimon C — Suwimon Chaiangwut, Scientist (3), ทะเบียนเลขที่ ว-204-ว-0018
Approved by Kanokkorn Anek — Kanokkorn Anek, Assistant General Manager, ทะเบียนเลขที่ ว-204-ต-0004

Analysis / Test Report

TESTING No.0009

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name : Factory I Monthly
Project Location: WHA SIL

Lot ID: 2569428
Date Received : Aug 01, 2025
Date Reported : Aug 08, 2025
Report Number : 3365444-1

Page 1 of 1

Sample Number	2569428-1
Sampled Date	Aug 01, 2025 10:05 AM
Sample Description	Group 2 Wastewater WW-CT
Contract ID	SIL_031_2555 **Plot** 145 **Site** PTN (Saraburi) Co.,Ltd.
Date Analysis Commenced	Aug 02, 2025
Condition of Sample	Contained in one amber glass bottle and three plastic bottles. sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property	Yellow, some odour, solid and no turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2.0	<2.0	≤500	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Bangkok
COD	mg/L	-	25	<25	≤750	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Bangkok
pH (on site) *		-	-	7.3	5.5-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Temperature *	Degree C	-	-	30.5	≤45	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	<5	≤200	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

Guideline : Standard of WHA Saraburi Industrial Land, Maximum levels for wastewater discharging to central wastewater treatment plant.
Sampling By : Teerawat Puangsuk ทะเบียนเลขที่ ว-204-ว-0058

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

Technical Management Suwimon C — Suwimon Chaiangwut, Scientist (3), ทะเบียนเลขที่ ว-204-ว-0018
Approved by Kanokkorn Anek — Kanokkorn Anek, Assistant General Manager, ทะเบียนเลขที่ ว-204-ต-0004

Analysis / Test Report

TESTING No.0009

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name : Factory I Monthly
Project Location: WHA SIL

Lot ID: 2569408
Date Received : Aug 04, 2025
Date Reported : Aug 11, 2025
Report Number : 3365400-1

Page 1 of 1

Sample Number	2569408-1
Sampled Date	Aug 04, 2025 10:30 AM
Sample Description	Group 2 Wastewater WW-CT
Contract ID	SIL_000_2554 **Plot** 77,78 **Site** Fujikoki Corporation
Date Analysis Commenced	Aug 05, 2025
Condition of Sample	Contained in one amber glass bottle and three plastic bottles. sample containers comply to pretreatment - preservation standards (APHA/USEPA)
Physical Property	Yellow, some odour, solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2.0	40.4	≤500	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Bangkok
COD	mg/L	-	25	159	≤750	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
Oil & Grease	mg/L	-	3	4	≤10	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Bangkok
pH (on site) *		-	-	7.4	5.5-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Temperature *	Degree C	-	-	31.2	≤45	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	49	≤200	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

Guideline : Standard of WHA Saraburi Industrial Land, Maximum levels for wastewater discharging to central wastewater treatment plant.
Sampling By : Panupong Sanet ทะเบียนเลขที่ ว-204-ว-0204

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

Technical Management Suwimon C — Suwimon Chaiangwut, Scientist (3), ทะเบียนเลขที่ ว-204-ว-0018
Approved by Kanokkorn Anek — Kanokkorn Anek, Assistant General Manager, ทะเบียนเลขที่ ว-204-ต-0004

Analysis / Test Report

TESTING No.0009

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name : Factory I Monthly
Project Location: WHA SIL

Lot ID: 2569409
Date Received : Aug 06, 2025
Date Reported : Aug 14, 2025
Report Number : 3365402-1

Page 1 of 1

Sample Number	2569409-1
Sampled Date	Aug 06, 2025 11:35 AM
Sample Description	Group 2 Wastewater WW-CT
Contract ID	SIL_008_2554 **Plot** 2 **Site** Guardian Industries Corp Ltd.
Location	Point 1
Date Analysis Commenced	Aug 07, 2025
Condition of Sample	Contained in one amber glass bottle and three plastic bottles. sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property	Yellow, some odour, solid and no turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2.0	<2.0	≤500	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Bangkok
COD	mg/L	-	25	39	≤750	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Bangkok
pH (on site) *		-	-	7.4	5.5-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Temperature *	Degree C	-	-	34.6	≤45	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	7	≤200	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

Guideline : Standard of WHA Saraburi Industrial Land, Maximum levels for wastewater discharging to central wastewater treatment plant.
Sampling By : Panupong Sanet ทะเบียนเลขที่ ว-204-ว-0204

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

Technical Management Narin Saiseng — Narin Saiseng, Supervisor, ทะเบียนเลขที่ ว-204-ว-0009
Approved by Kanokkorn Anek — Kanokkorn Anek, Assistant General Manager, ทะเบียนเลขที่ ว-204-ต-0004

Analysis / Test Report

TESTING No.0009

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name : Factory I Monthly
Project Location: WHA SIL

Lot ID: 2569410
Date Received : Aug 06, 2025
Date Reported : Aug 14, 2025
Report Number : 3365403-1

Page 1 of 1

Sample Number	2569410-1
Sampled Date	Aug 06, 2025 11:40 AM
Sample Description	Group 2 Wastewater WW-CT
Contract ID	SIL_007_2554 **Plot** 2 **Site** Guardian Industries Corp Ltd.
Location	Point 2
Date Analysis Commenced	Aug 07, 2025
Condition of Sample	Contained in one amber glass bottle and three plastic bottles. sample containers comply to pretreatment - preservation standards (APHA/USEPA)
Physical Property	Yellow, some odour, solid and no turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2.0	5.7	≤500	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Bangkok
COD	mg/L	-	25	38	≤750	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Bangkok
pH (on site) *		-	-	7.5	5.5-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Temperature *	Degree C	-	-	32.7	≤45	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	11	≤200	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

Guideline : Standard of WHA Saraburi Industrial Land, Maximum levels for wastewater discharging to central wastewater treatment plant.
Sampling By : Panupong Sanet ทะเบียนเลขที่ ว-204-ว-0204

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

Technical Management Narin Saiseng — Narin Saiseng, Supervisor, ทะเบียนเลขที่ ว-204-ว-0009
Approved by Kanokkorn Anek — Kanokkorn Anek, Assistant General Manager, ทะเบียนเลขที่ ว-204-ต-0004

Analysis / Test Report

TESTING No.0009

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name : Factory I Monthly
Project Location: WHA SIL

Lot ID: 2569411
Date Received : Aug 06, 2025
Date Reported : Aug 14, 2025
Report Number : 3365404-1

Page 1 of 1

Sample Number	2569411-1
Sampled Date	Aug 06, 2025 11:30 AM
Sample Description	Group 2 Wastewater WW-CT
Contract ID	SIL_008_2554 **Plot** 2 **Site** Guardian Industries Corp Ltd.
Location	Point 3
Date Analysis Commenced	Aug 07, 2025
Condition of Sample	Contained in one amber glass bottle and three plastic bottles. sample containers comply to pretreatment - preservation standards (APHA/USEPA)
Physical Property	Yellow, some odour, solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2.0	12.4	≤500	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Bangkok
COD	mg/L	-	25	43	≤750	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Bangkok
pH (on site) *		-	-	7.9	5.5-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Temperature *	Degree C	-	-	33.7	≤45	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	39	≤200	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

Guideline : Standard of WHA Saraburi Industrial Land, Maximum levels for wastewater discharging to central wastewater treatment plant.
Sampling By : Panupong Sanet ทะเบียนเลขที่ ว-204-ว-0204

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Technical Management Narin Saiseng — Narin Saiseng, Supervisor, ทะเบียนเลขที่ ว-204-ว-0009
Approved by Kanokkorn Anek — Kanokkorn Anek, Assistant General Manager, ทะเบียนเลขที่ ว-204-ต-0004

Analysis / Test Report

TESTING No.0009

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name : Factory I Monthly
Project Location: WHA SIL

Lot ID: 2569504
Date Received : Aug 07, 2025
Date Reported : Aug 15, 2025
Report Number : 3365776-1

Page 1 of 2

Sample Number	2569504-1
Sampled Date	Aug 07, 2025 9:00 AM
Sample Description	Group 2 Wastewater WW-CT
Contract ID	SIL_072_2557 **Plot** 86 **Site** Gulf JP NK2 Co.,Ltd.
Date Analysis Commenced	Aug 08, 2025
Condition of Sample	Contained in one amber glass bottle and four plastic bottles .sample containers comply to pretreatment - preservation standards (APHA/USEPA)
Physical Property	Yellow, some odour, solid and no turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Hexavalent Chromium	mg/L	0.003	0.01	Not Detected	≤0.25	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3500-Cr B	Bangkok
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2.0	<2.0	≤500	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Bangkok
COD	mg/L	-	25	37	≤750	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Bangkok
pH (on site) *		-	-	7.8	5.5-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Temperature *	Degree C	-	-	30.8	≤45	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	1440	≤3000	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	≤200	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

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

Technical Management Chanatt L. — Chanatbagarn Inchom, Section Head, ทะเบียนเลขที่ ว-204-ว-0008
Approved by Kanokkorn Anek — Kanokkorn Anek, Assistant General Manager, ทะเบียนเลขที่ ว-204-ต-0004

Analysis / Test Report

TESTING No.0009

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name : Factory I Monthly
Project Location: WHA SIL

Lot ID: 2569504
Date Received : Aug 07, 2025
Date Reported : Aug 15, 2025
Report Number : 3365776-1

Page 2 of 2

Sampling By : Panupong Sanet ทะเบียนเลขที่ ว-204-ว-0204

Remark :
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Technical Management Chanatt L. — Chanatbagarn Inchom, Section Head, ทะเบียนเลขที่ ว-204-ว-0008
Approved by Kanokkorn Anek — Kanokkorn Anek, Assistant General Manager, ทะเบียนเลขที่ ว-204-ต-0004

Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name : Factory I Monthly
Project Location: WHA SIL

Lot ID: 2569504
Date Received : Aug 07, 2025
Date Reported : Aug 15, 2025
Report Number : 3365776-2

Page 1 of 1

Sample Number	2569504-1
Sampled Date	Aug 07, 2025 9:00 AM
Sample Description	Group 2 Wastewater WW-CT
Contract ID	SIL_072_2557 **Plot** 86 **Site** Gulf JP NK2 Co.,Ltd.
Date Analysis Commenced	Aug 08, 2025
Condition of Sample	Contained in one amber glass bottle and four plastic bottles .sample containers comply to pretreatment - preservation standards (APHA/USEPA)
Physical Property	Yellow, some odour, solid and no turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Conductivity at 25 degree C	micromhos/cm	-	0.5	2096	No Standard	Based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2510 B	Bangkok

Guideline : Standard of WHA Saraburi Industrial Land, Maximum levels for wastewater discharging to central wastewater treatment plant.
Sampling By : Panupong Sanet

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

Approved by Suwimon C — Suwimon Chaiangwut, Scientist (3)

Analysis / Test Report

TESTING No.0009

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name : Factory I Monthly
Project Location: WHA SIL

Lot ID: 2569512
Date Received : Aug 04, 2025
Date Reported : Aug 11, 2025
Report Number : 3365790-1

Sample Number	2569512-1
Sampled Date	Aug 04, 2025 10:15 AM
Sample Description	Group 2 Wastewater WW-CT
Contract ID	SIL_032_2556 **Plot** 149 **Site** Hygenie (Thailand) Co.,Ltd. (1st)
Date Analysis Commenced	Aug 05, 2025
Condition of Sample	Contained in one amber glass bottle and three plastic bottles. sample containers comply to pretreatment - preservation standards (APHA/USEPA)
Physical Property	Colorless, some odour, solid and no turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2.0	2.9	≤500	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Bangkok
COD	mg/L	-	25	<25	≤750	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Bangkok
pH (on site) *		-	-	8.0	5.5-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Temperature *	Degree C	-	-	32.6	≤45	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	1100	≤3000	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	<5	≤200	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

Guideline : Standard of WHA Saraburi Industrial Land, Maximum levels for wastewater discharging to central wastewater treatment plant.
Sampling By : Panupong Sanei ทะเบียนเลขที่ ว-204-ว-0204

Remark :
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Technical Management Siriluk P.
Siriluk Bunnak
Section Head
ทะเบียนเลขที่ ว-204-ว-0013

Approved by Kanokkorn Anek
Kanokkorn Anek
Assistant General Manager
ทะเบียนเลขที่ ว-204-ต-0004

Analysis / Test Report

TESTING No.0009

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name : Factory I Monthly
Project Location: WHA SIL

Lot ID: 2569512
Date Received : Aug 04, 2025
Date Reported : Aug 11, 2025
Report Number : 3365790-1

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

Technical Management Siriluk P.
Siriluk Bunnak
Section Head
ทะเบียนเลขที่ ว-204-ว-0013

Approved by Kanokkorn Anek
Kanokkorn Anek
Assistant General Manager
ทะเบียนเลขที่ ว-204-ต-0004

Analysis / Test Report

TESTING No.0009

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name : Factory I Monthly
Project Location: WHA SIL

Lot ID: 2569513
Date Received : Aug 07, 2025
Date Reported : Aug 15, 2025
Report Number : 3365792-1

Sample Number	2569513-1
Sampled Date	Aug 07, 2025 10:35 AM
Sample Description	Group 2 Wastewater WW-CT
Contract ID	SIL_032_2556 **Plot** 149 **Site** Hygenie (Thailand) Co.,Ltd. (2nd)
Date Analysis Commenced	Aug 08, 2025
Condition of Sample	Contained in one amber glass bottle and three plastic bottles. sample containers comply to pretreatment - preservation standards (APHA/USEPA)
Physical Property	Colorless, some odour, solid and no turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2.0	<2.0	≤500	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Bangkok
COD	mg/L	-	25	<25	≤750	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Bangkok
pH (on site) *		-	-	7.8	5.5-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Temperature *	Degree C	-	-	33.1	≤45	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	1492	≤3000	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	<5	≤200	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

Guideline : Standard of WHA Saraburi Industrial Land, Maximum levels for wastewater discharging to central wastewater treatment plant.
Sampling By : Panupong Sanei ทะเบียนเลขที่ ว-204-ว-0204

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

Technical Management Suwimon C.
Suwimon Charuangwut
Scientist (3)
ทะเบียนเลขที่ ว-204-ว-0018

Approved by Kanokkorn Anek
Kanokkorn Anek
Assistant General Manager
ทะเบียนเลขที่ ว-204-ต-0004

Analysis / Test Report

TESTING No.0009

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name : Factory I Monthly
Project Location: WHA SIL

Lot ID: 2569513
Date Received : Aug 07, 2025
Date Reported : Aug 15, 2025
Report Number : 3365792-1

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

Technical Management Suwimon C.
Suwimon Charuangwut
Scientist (3)
ทะเบียนเลขที่ ว-204-ว-0018

Approved by Kanokkorn Anek
Kanokkorn Anek
Assistant General Manager
ทะเบียนเลขที่ ว-204-ต-0004

Analysis / Test Report

TESTING No.0009

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name : Factory I Monthly
Project Location: WHA SIL

Lot ID: 2569435
Date Received : Aug 06, 2025
Date Reported : Aug 14, 2025
Report Number : 3365458-1

Sample Number	2569435-1
Sampled Date	Aug 06, 2025 10:05 AM
Sample Description	Group 2 Wastewater WW-CT
Contract ID	SIL_042_2556 **Plot** 84 **Site** IDEC Asia (Thailand) Co.,Ltd
Date Analysis Commenced	Aug 07, 2025
Condition of Sample	Contained in one amber glass bottle and three plastic bottles. sample containers comply to pretreatment - preservation standards (APHA/USEPA)
Physical Property	Yellow, a lot of odour, solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2.0	72.2	≤500	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Bangkok
COD	mg/L	-	25	142	≤750	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Bangkok
pH (on site) *		-	-	8.5	5.5-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Temperature *	Degree C	-	-	32.7	≤45	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	20	≤200	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

Guideline : Standard of WHA Saraburi Industrial Land, Maximum levels for wastewater discharging to central wastewater treatment plant.
Sampling By : Panupong Sanei ทะเบียนเลขที่ ว-204-ว-0204

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

Technical Management Narin Saiseng
Narin Saiseng
Supervisor
ทะเบียนเลขที่ ว-204-ว-0009

Approved by Kanokkorn Anek
Kanokkorn Anek
Assistant General Manager
ทะเบียนเลขที่ ว-204-ต-0004

Analysis / Test Report

TESTING No.0009

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name : Factory I Monthly
Project Location: WHA SIL

Lot ID: 2569412
Date Received : Aug 01, 2025
Date Reported : Aug 08, 2025
Report Number : 3365406-1

Sample Number	2569412-1
Sampled Date	Aug 01, 2025 11:30 AM
Sample Description	Group 2 Wastewater WW-CT
Contract ID	SIL_009_2554 **Plot** 43,44 **Site** JCY HDD Technology Co.,Ltd
Date Analysis Commenced	Aug 02, 2025
Condition of Sample	Contained in one amber glass bottle and three plastic bottles. sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property	Colorless, odourless, no solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2.0	<2.0	≤500	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Bangkok
COD	mg/L	-	25	<25	≤750	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Bangkok
pH (on site) *		-	-	7.9	5.5-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Temperature *	Degree C	-	-	32.9	≤45	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	<5	≤200	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

Guideline : Standard of WHA Saraburi Industrial Land, Maximum levels for wastewater discharging to central wastewater treatment plant.
Sampling By : Chawanthat Nakpanom ทะเบียนเลขที่ ว-204-ว-0087

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

Technical Management Suwimon C.
Suwimon Charuangwut
Scientist (3)
ทะเบียนเลขที่ ว-204-ว-0018

Approved by Kanokkorn Anek
Kanokkorn Anek
Assistant General Manager
ทะเบียนเลขที่ ว-204-ต-0004

Analysis / Test Report

TESTING No.0009

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name : Factory I Monthly
Project Location: WHA SIL

Lot ID: 2569429
Date Received : Aug 01, 2025
Date Reported : Aug 08, 2025
Report Number : 3365445-1

Sample Number	2569429-1
Sampled Date	Aug 01, 2025 9:40 AM
Sample Description	Group 2 Wastewater WW-CT
Contract ID	SIL_034_2556 **Plot** 182/1 **Site** Johnan F. Tech (Thailand) Co.,Ltd.
Date Analysis Commenced	Aug 02, 2025
Condition of Sample	Contained in one amber glass bottle and three plastic bottles. sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property	Yellow, a lot of odour, solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2.0	82.0	≤500	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Bangkok
COD	mg/L	-	25	188	≤750	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
Oil & Grease	mg/L	-	3	7	≤10	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Bangkok
pH (on site) *		-	-	7.4	5.5-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Temperature *	Degree C	-	-	31.4	≤45	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	40	≤200	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

Guideline : Standard of WHA Saraburi Industrial Land, Maximum levels for wastewater discharging to central wastewater treatment plant.
Sampling By : Teerawat Puangsuk ทะเบียนเลขที่ ว-204-ว-0058

Remark :
- LOD : Limit of Detection
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- Sampling is not included in scope of accreditation ISO/IEC 17025

Technical Management Suwimon C.
Suwimon Charuangwut
Scientist (3)
ทะเบียนเลขที่ ว-204-ว-0018

Approved by Kanokkorn Anek
Kanokkorn Anek
Assistant General Manager
ทะเบียนเลขที่ ว-204-ต-0004

Analysis / Test Report

TESTING No.0009

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name : Factory I Monthly
Project Location: WHA SIL

Lot ID: 2569413
Date Received : Aug 01, 2025
Date Reported : Aug 08, 2025
Report Number : 3365409-1

Sample Number	2569413-1
Sampled Date	Aug 01, 2025 10:40 AM
Sample Description	Group 2 Wastewater WW-CT
Contract ID	SIL_010_2556 **Plot** 148 **Site** Knauf Gypsum (Thailand) Co.,Ltd
Date Analysis Commenced	Aug 02, 2025
Condition of Sample	Contained in one amber glass bottle and three plastic bottles. sample containers comply to pretreatment - preservation standards (APHA/USEPA)
Physical Property	Yellow, odourless, some solid and no turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2.0	5.8	≤500	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Bangkok
COD	mg/L	-	25	32	≤750	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Bangkok
pH (on site) *		-	-	7.6	5.5-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Temperature *	Degree C	-	-	34.7	≤45	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	15	≤200	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

Guideline : Standard of WHA Saraburi Industrial Land, Maximum levels for wastewater discharging to central wastewater treatment plant.
Sampling By : Teerawat Puangsuk ทะเบียนเลขที่ ว-204-ว-0058

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

Technical Management Suwimon C.
Suwimon Charuangwut
Scientist (3)
ทะเบียนเลขที่ ว-204-ว-0018

Approved by Kanokkorn Anek
Kanokkorn Anek
Assistant General Manager
ทะเบียนเลขที่ ว-204-ต-0004

Analysis / Test Report

TESTING No.0009

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name : Factory I Monthly
Project Location: WHA SIL

Lot ID: 2569490
Date Received : Aug 06, 2025
Date Reported : Aug 14, 2025
Report Number : 3365718-1

Sample Number	2569490-1
Sampled Date	Aug 06, 2025 9:35 AM
Sample Description	Group 2 Wastewater WW-CT
Contract ID	SIL_013_2587 **Plot** 58/1 **Site** Kuramo (Thailand) CO.,LTD.
Date Analysis Commenced	Aug 07, 2025
Condition of Sample	Contained in one amber glass bottle and three plastic bottles. sample containers comply to pretreatment - preservation standards (APHA/USEPA)
Physical Property	Yellow, a lot of odour, solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2.0	105	≤500	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Bangkok
COD	mg/L	-	25	240	≤750	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
Oil & Grease	mg/L	-	3	5	≤10	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Bangkok
pH (on site) *		-	-	7.0	5.5-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Temperature *	Degree C	-	-	32.4	≤45	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	80	≤200	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

Guideline : Standard of WHA Saraburi Industrial Land, Maximum levels for wastewater discharging to central wastewater treatment plant.
Sampling By : Panupong Sanei ทะเบียนเลขที่ ว-204-ว-0204

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

Technical Management Narin Saiseng
Narin Saiseng
Supervisor
ทะเบียนเลขที่ ว-204-ว-0009

Approved by Kanokkorn Anek
Kanokkorn Anek
Assistant General Manager
ทะเบียนเลขที่ ว-204-ต-0004

Analysis / Test Report

TESTING No.0009

Lot ID: 2569419
Date Received : Aug 07, 2025
Date Reported : Aug 15, 2025
Report Number : 3369427-1

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name : Factory I Monthly
Project Location: WHA SIL

Page 1 of 1

Sample Number	2569419-1
Sampled Date	Aug 07, 2025 10:00 AM
Sample Description	Group 2 Wastewater WW-CT
Contract ID	SIL_018_2554 **Plot** 18,82,40 **Site** Maxion Wheels (Thailand) Co.,Ltd.
Date Analysis Commenced	Aug 08, 2025
Condition of Sample	Contained in one amber glass bottle and three plastic bottles. sample containers comply to pretreatment - preservation standards (APHA/USEPA)
Physical Property	Yellow, some odour, solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2.0	18.8	≤500	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Bangkok
COD	mg/L	-	25	92	≤750	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
Oil & Grease	mg/L	-	3	6	≤10	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Bangkok
pH (on site) *		-	-	6.0	5.5-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Temperature *	Degree C	-	-	34.9	≤45	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	35	≤200	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

Guideline : Standard of WHA Saraburi Industrial Land, Maximum levels for wastewater discharging to central wastewater treatment plant.
Sampling By : Panupong Sanet ทะเบียนเลขที่ ว-204-ว-0204

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

Technical Management Suwimon C. — Suwimon Chairungwut, Scientist (3), ทะเบียนเลขที่ ว-204-ว-0018
Approved by Kanokkorn Anek — Kanokkorn Anek, Assistant General Manager, ทะเบียนเลขที่ ว-204-ฮ-0004

Analysis / Test Report

TESTING No.0009

Lot ID: 2569427
Date Received : Aug 06, 2025
Date Reported : Aug 14, 2025
Report Number : 3369442-1

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name : Factory I Monthly
Project Location: WHA SIL

Page 1 of 1

Sample Number	2569427-1
Sampled Date	Aug 06, 2025 10:00 AM
Sample Description	Group 2 Wastewater WW-CT
Contract ID	SIL_011_2554 **Plot** 65 **Site** Michelin ROH Co.,Ltd.
Date Analysis Commenced	Aug 07, 2025
Condition of Sample	Contained in one amber glass bottle and three plastic bottles. sample containers comply to pretreatment - preservation standards (APHA/USEPA)
Physical Property	Yellow, a lot of odour, solid and a lot of turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2.0	75.3	≤500	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Bangkok
COD	mg/L	-	25	178	≤750	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Bangkok
pH (on site) *		-	-	8.0	5.5-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Temperature *	Degree C	-	-	31.4	≤45	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	40	≤200	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

Guideline : Standard of WHA Saraburi Industrial Land, Maximum levels for wastewater discharging to central wastewater treatment plant.
Sampling By : Panupong Sanet ทะเบียนเลขที่ ว-204-ว-0204

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

Technical Management Narin Saeng — Narin Saeng, Supervisor, ทะเบียนเลขที่ ว-204-ว-0009
Approved by Kanokkorn Anek — Kanokkorn Anek, Assistant General Manager, ทะเบียนเลขที่ ว-204-ฮ-0004

Analysis / Test Report

TESTING No.0009

Lot ID: 2569415
Date Received : Aug 04, 2025
Date Reported : Aug 11, 2025
Report Number : 3369416-1

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name : Factory I Monthly
Project Location: WHA SIL

Page 1 of 2

Sample Number	2569415-1
Sampled Date	Aug 04, 2025 10:50 AM
Sample Description	Group 2 Wastewater WW-CT
Contract ID	SIL_013_2554 **Plot** 5,83,92 **Site** Michelin Siam Co.,Ltd. (1st)
Date Analysis Commenced	Aug 05, 2025
Condition of Sample	Contained in one amber glass bottle and three plastic bottles. sample containers comply to pretreatment - preservation standards (APHA/USEPA)
Physical Property	Yellow, some odour, solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2.0	8.0	≤500	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Bangkok
COD	mg/L	-	25	53	≤750	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Bangkok
pH (on site) *		-	-	8.2	5.5-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Temperature *	Degree C	-	-	33.5	≤45	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	604	≤3000	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	≤200	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

Guideline : Standard of WHA Saraburi Industrial Land, Maximum levels for wastewater discharging to central wastewater treatment plant.
Sampling By : Panupong Sanet ทะเบียนเลขที่ ว-204-ว-0204

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

Technical Management Siriluk P. — Siriluk Bunnak, Section Head, ทะเบียนเลขที่ ว-204-ว-0013
Approved by Kanokkorn Anek — Kanokkorn Anek, Assistant General Manager, ทะเบียนเลขที่ ว-204-ฮ-0004

Analysis / Test Report

TESTING No.0009

Lot ID: 2569415
Date Received : Aug 04, 2025
Date Reported : Aug 11, 2025
Report Number : 3369416-1

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name : Factory I Monthly
Project Location: WHA SIL

Page 2 of 2

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

Technical Management Siriluk P. — Siriluk Bunnak, Section Head, ทะเบียนเลขที่ ว-204-ว-0013
Approved by Kanokkorn Anek — Kanokkorn Anek, Assistant General Manager, ทะเบียนเลขที่ ว-204-ฮ-0004

Analysis / Test Report

TESTING No.0009

Lot ID: 2569461
Date Received : Aug 04, 2025
Date Reported : Aug 11, 2025
Report Number : 3365558-1

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name : Factory I Monthly
Project Location: WHA SIL

Page 1 of 1

Sample Number	2569461-1
Sampled Date	Aug 04, 2025 11:00 AM
Sample Description	Group 2 Wastewater WW-CT
Contract ID	SIL_002_2560 **Plot** 17 **Site** Michelin Siam Co.,Ltd.
Date Analysis Commenced	Aug 05, 2025
Condition of Sample	Contained in one amber glass bottle and three plastic bottles. sample containers comply to pretreatment - preservation standards (APHA/USEPA)
Physical Property	Yellow, some odour, solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2.0	38.2	≤500	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Bangkok
COD	mg/L	-	25	151	≤750	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Bangkok
pH (on site) *		-	-	7.5	5.5-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Temperature *	Degree C	-	-	32.3	≤45	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	24	≤200	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

Guideline : Standard of WHA Saraburi Industrial Land, Maximum levels for wastewater discharging to central wastewater treatment plant.
Sampling By : Panupong Sanet ทะเบียนเลขที่ ว-204-ว-0204

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

Technical Management Siriluk P. — Siriluk Bunnak, Section Head, ทะเบียนเลขที่ ว-204-ว-0013
Approved by Kanokkorn Anek — Kanokkorn Anek, Assistant General Manager, ทะเบียนเลขที่ ว-204-ฮ-0004

Analysis / Test Report

TESTING No.0009

Lot ID: 2569473
Date Received : Aug 01, 2025
Date Reported : Aug 07, 2025
Report Number : 3365644-1

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name : Factory I Monthly
Project Location: WHA SIL

Page 1 of 1

Sample Number	2569473-1
Sampled Date	Aug 01, 2025 9:20 AM
Sample Description	Group 2 Wastewater WW-CT
Contract ID	SIL_003_2566 **Plot** 135 **Site** Miyago Industry (Thailand) Co.,Ltd.
Date Analysis Commenced	Aug 02, 2025
Condition of Sample	Contained in one amber glass bottle and three plastic bottles. sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property	Yellow, some odour, solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2.0	20.0	≤500	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Bangkok
COD	mg/L	-	25	112	≤750	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Bangkok
pH (on site) *		-	-	7.8	5.5-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Temperature *	Degree C	-	-	31.3	≤45	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	38	≤200	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

Guideline : Standard of WHA Saraburi Industrial Land, Maximum levels for wastewater discharging to central wastewater treatment plant.
Sampling By : Panupong Sanet ทะเบียนเลขที่ ว-204-ว-0204

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

Technical Management Suwimon C. — Suwimon Chairungwut, Scientist (3), ทะเบียนเลขที่ ว-204-ว-0018
Approved by Kanokkorn Anek — Kanokkorn Anek, Assistant General Manager, ทะเบียนเลขที่ ว-204-ฮ-0004

Analysis / Test Report

TESTING No.0009

Lot ID: 2569441
Date Received : Aug 01, 2025
Date Reported : Aug 08, 2025
Report Number : 3369460-1

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name : Factory I Monthly
Project Location: WHA SIL

Page 1 of 1

Sample Number	2569441-1
Sampled Date	Aug 01, 2025 9:55 AM
Sample Description	Group 2 Wastewater WW-CT
Contract ID	SIL_048_2556 **Plot** 160, 161, 162, 166, 168 **Site** Muto (Thailand) Co.,Ltd.
Date Analysis Commenced	Aug 02, 2025
Condition of Sample	Contained in one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property	Yellow, a lot of odour, solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2.0	195	≤500	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Bangkok
COD	mg/L	-	25	343	≤750	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
Oil & Grease	mg/L	-	3	13	≤10	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Bangkok
pH (on site) *		-	-	7.0	5.5-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Temperature *	Degree C	-	-	32.2	≤45	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	71	≤200	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

Guideline : Standard of WHA Saraburi Industrial Land, Maximum levels for wastewater discharging to central wastewater treatment plant.
Sampling By : Teerawat Puangsuk ทะเบียนเลขที่ ว-204-ว-0058

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

Technical Management Siriluk P. — Siriluk Bunnak, Section Head, ทะเบียนเลขที่ ว-204-ว-0013
Approved by Kanokkorn Anek — Kanokkorn Anek, Assistant General Manager, ทะเบียนเลขที่ ว-204-ฮ-0004

Analysis / Test Report

TESTING No.0009

Lot ID: 2569471
Date Received : Aug 01, 2025
Date Reported : Aug 07, 2025
Report Number : 3365628-1

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name : Factory I Monthly
Project Location: WHA SIL

Page 1 of 1

Sample Number	2569471-1
Sampled Date	Aug 01, 2025 1:10 PM
Sample Description	Group 2 Wastewater WW-CT
Contract ID	SIL_005_2565 **Plot** 6 **Site** Nawaplastic Industries Co., Ltd.
Date Analysis Commenced	Aug 02, 2025
Condition of Sample	Contained in one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property	Yellow, a lot of odour, solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2.0	104	≤500	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Bangkok
COD	mg/L	-	25	343	≤750	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
Oil & Grease	mg/L	-	3	7	≤10	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Bangkok
pH (on site) *		-	-	7.6	5.5-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Temperature *	Degree C	-	-	32.5	≤45	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	188	≤200	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

Guideline : Standard of WHA Saraburi Industrial Land, Maximum levels for wastewater discharging to central wastewater treatment plant.
Sampling By : Teerawat Puangsuk ทะเบียนเลขที่ ว-204-ว-0058

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

Technical Management Suwimon C. — Suwimon Chairungwut, Scientist (3), ทะเบียนเลขที่ ว-204-ว-0018
Approved by Kanokkorn Anek — Kanokkorn Anek, Assistant General Manager, ทะเบียนเลขที่ ว-204-ฮ-0004

Analysis / Test Report

TESTING No.0009

Lot ID: 2569442
Date Received : Aug 06, 2025
Date Reported : Aug 14, 2025
Report Number : 3365473-1

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name : Factory I Monthly
Project Location: WHA SIL

Page 1 of 1

Sample Number	2569442-1
Sampled Date	Aug 06, 2025 11:00 AM
Sample Description	Group 2 Wastewater WW-CT
Contract ID	SIL_095_2554 **Plot** 80, 81 **Site** Nidec Component Technology(Thailand) Co., Ltd.
Date Analysis Commenced	Aug 07, 2025
Condition of Sample	Contained in one amber glass bottle and three plastic bottles. sample containers comply to pretreatment - preservation standards (APHA/USEPA)
Physical Property	odourless, some odour, solid and no turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2.0	5.8	≤500	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Bangkok
COD	mg/L	-	25	39	≤750	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Bangkok
pH (on site) *		-	-	7.4	5.5-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Temperature *	Degree C	-	-	33.4	≤45	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	6	≤200	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

Guideline : Standard of WHA Saraburi Industrial Land, Maximum levels for wastewater discharging to central wastewater treatment plant.
Sampling By : Panupong Sanet ทะเบียนเลขที่ ว-204-ว-0204

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

Technical Management Narin Saeng — Narin Saeng, Supervisor, ทะเบียนเลขที่ ว-204-ว-0009
Approved by Kanokkorn Anek — Kanokkorn Anek, Assistant General Manager, ทะเบียนเลขที่ ว-204-ฮ-0004

Analysis / Test Report

TESTING No.0009

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name : Factory / Monthly
Project Location: WHA SIL

Lot ID: 2569472
Date Received : Aug 06, 2025
Date Reported : Aug 14, 2025
Report Number : 3365843-1

Page 1 of 1

Sample Number	2569472-1
Sampled Date	Aug 06, 2025 9:25 AM
Sample Description	Group 2 Wastewater WW-CT
Contract ID	SIL_007_2565 **Plot** 48 **Site** Nihonichi Food (Thailand) Co.,Ltd.
Date Analysis Commenced	Aug 07, 2025
Condition of Sample	Contained in one amber glass bottle and three plastic bottles. sample containers comply to pretreatment - preservation standards (APHA/USEPA)
Physical Property	Yellow, some odour, solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2.0	2.0	≤500	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Bangkok
COD	mg/L	-	25	<25	≤750	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Bangkok
pH (on site) *		-	-	7.2	5.5-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Temperature *	Degree C	-	-	31.4	≤45	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	16	≤200	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

Guideline : Standard of WHA Saraburi Industrial Land, Maximum levels for wastewater discharging to central wastewater treatment plant.
Sampling By : Panupong Sanei ทะเบียนเลขที่ ว-204-ว-0204

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

Technical Management Narin Saieng, Supervisor, ทะเบียนเลขที่ ว-204-ว-0009
Approved by Kanokkorn Anek, Assistant General Manager, ทะเบียนเลขที่ ว-204-ค-0004

Analysis / Test Report

TESTING No.0009

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name : Factory / Monthly
Project Location: WHA SIL

Lot ID: 2569446
Date Received : Aug 01, 2025
Date Reported : Aug 08, 2025
Report Number : 3365495-1

Page 1 of 1

Sample Number	2569446-1
Sampled Date	Aug 01, 2025 11:35 AM
Sample Description	Group 2 Wastewater WW-CT
Contract ID	SIL_063_2556 **Plot** 93C **Site** Nikon (Thailand) Co.,Ltd.
Date Analysis Commenced	Aug 02, 2025
Condition of Sample	Contained in one amber glass bottle and three plastic bottles. sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property	Yellow, a lot of solid, solid and some turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2.0	20.0	≤500	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Bangkok
COD	mg/L	-	25	92	≤750	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
Oil & Grease	mg/L	-	3	5	≤10	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Bangkok
pH (on site) *		-	-	7.8	5.5-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Temperature *	Degree C	-	-	32.4	≤45	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	44	≤200	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

Guideline : Standard of WHA Saraburi Industrial Land, Maximum levels for wastewater discharging to central wastewater treatment plant.
Sampling By : Teerawat Puangsuk ทะเบียนเลขที่ ว-204-ว-0058

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

Technical Management Suwimon Chairungput, Scientist (3), ทะเบียนเลขที่ ว-204-ว-0018
Approved by Kanokkorn Anek, Assistant General Manager, ทะเบียนเลขที่ ว-204-ค-0004

Analysis / Test Report

TESTING No.0009

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name : Factory / Monthly
Project Location: WHA SIL

Lot ID: 2569432
Date Received : Aug 01, 2025
Date Reported : Aug 08, 2025
Report Number : 3365440-1

Page 1 of 1

Sample Number	2569432-1
Sampled Date	Aug 01, 2025 1:25 PM
Sample Description	Group 2 Wastewater WW-CT
Contract ID	SIL_040_2558 **Plot** 21 **Site** Noritake SA (Thailand) Co.,Ltd.
Date Analysis Commenced	Aug 02, 2025
Condition of Sample	Contained in one amber glass bottle and three plastic bottles. sample containers comply to pretreatment - preservation standards (APHA/USEPA)
Physical Property	Yellow, some odour, solid and no turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2.0	3.6	≤500	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Bangkok
COD	mg/L	-	25	<25	≤750	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Bangkok
pH (on site) *		-	-	7.1	5.5-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Temperature *	Degree C	-	-	32.8	≤45	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	8	≤200	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

Guideline : Standard of WHA Saraburi Industrial Land, Maximum levels for wastewater discharging to central wastewater treatment plant.
Sampling By : Chawanthat Nakpanom ทะเบียนเลขที่ ว-204-ว-0087

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

Technical Management Suwimon Chairungput, Scientist (3), ทะเบียนเลขที่ ว-204-ว-0018
Approved by Kanokkorn Anek, Assistant General Manager, ทะเบียนเลขที่ ว-204-ค-0004

Analysis / Test Report

TESTING No.0009

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name : Factory / Monthly
Project Location: WHA SIL

Lot ID: 2569511
Date Received : Aug 11, 2025
Date Reported : Aug 19, 2025
Report Number : 3365789-1

Page 1 of 2

Sample Number	2569511-1
Sampled Date	Aug 11, 2025 11:00 AM
Sample Description	Group 2 Wastewater WW-CT
Contract ID	SIL_019_2554 **Plot** 20 **Site** Noritake SCG Plaster Co.,Ltd.
Date Analysis Commenced	Aug 13, 2025
Condition of Sample	Contained in one amber glass bottle and three plastic bottles. sample containers comply to pretreatment - preservation standards (APHA/USEPA)
Physical Property	Yellow, some odour, solid and no turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2.0	6.8	≤500	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Bangkok
COD	mg/L	-	25	51	≤750	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Bangkok
pH (on site) *		-	-	7.6	5.5-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Temperature *	Degree C	-	-	33.6	≤45	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	1208	≤3000	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	≤200	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

Guideline : Standard of WHA Saraburi Industrial Land, Maximum levels for wastewater discharging to central wastewater treatment plant.
Sampling By : Panupong Sanei ทะเบียนเลขที่ ว-204-ว-0204

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

Technical Management Suwimon Chairungput, Scientist (3), ทะเบียนเลขที่ ว-204-ว-0018
Approved by Kanokkorn Anek, Assistant General Manager, ทะเบียนเลขที่ ว-204-ค-0004

Analysis / Test Report

TESTING No.0009

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name : Factory / Monthly
Project Location: WHA SIL

Lot ID: 2569511
Date Received : Aug 11, 2025
Date Reported : Aug 19, 2025
Report Number : 3365789-1

Page 2 of 2

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

Technical Management Suwimon Chairungput, Scientist (3), ทะเบียนเลขที่ ว-204-ว-0018
Approved by Kanokkorn Anek, Assistant General Manager, ทะเบียนเลขที่ ว-204-ค-0004

Analysis / Test Report

TESTING No.0009

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name : Factory / Monthly
Project Location: WHA SIL

Lot ID: 2569463
Date Received : Aug 01, 2025
Date Reported : Aug 08, 2025
Report Number : 3365583-1

Page 1 of 1

Sample Number	2569463-1
Sampled Date	Aug 01, 2025 10:10 AM
Sample Description	Group 2 Wastewater WW-CT
Contract ID	SIL_007_2560 **Plot** 142/2 **Site** NX SHOJI (THAILAND) CO., LTD.
Date Analysis Commenced	Aug 02, 2025
Condition of Sample	Contained in three plastic bottles and one amber glass bottle, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property	Yellow, a lot of odour, solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2.0	18.7	≤500	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Bangkok
COD	mg/L	-	25	86	≤750	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
Oil & Grease	mg/L	-	3	4	≤10	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Bangkok
pH (on site) *		-	-	7.2	5.5-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Temperature *	Degree C	-	-	31.3	≤45	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	59	≤200	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

Guideline : Standard of WHA Saraburi Industrial Land, Maximum levels for wastewater discharging to central wastewater treatment plant.
Sampling By : Panupong Sanei ทะเบียนเลขที่ ว-204-ว-0204

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

Technical Management Siriluk Bunnak, Section Head, ทะเบียนเลขที่ ว-204-ว-0013
Approved by Kanokkorn Anek, Assistant General Manager, ทะเบียนเลขที่ ว-204-ค-0004

Analysis / Test Report

TESTING No.0009

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name : Factory / Monthly
Project Location: WHA SIL

Lot ID: 2569464
Date Received : Aug 01, 2025
Date Reported : Aug 08, 2025
Report Number : 3365586-1

Page 1 of 1

Sample Number	2569464-1
Sampled Date	Aug 01, 2025 10:15 AM
Sample Description	Group 2 Wastewater WW-CT
Contract ID	SIL_008_2560 **Plot** 142/4 **Site** NX SHOJI (THAILAND) CO., LTD.
Date Analysis Commenced	Aug 02, 2025
Condition of Sample	Contained in one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property	Yellow, a lot of odour, solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2.0	54.0	≤500	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Bangkok
COD	mg/L	-	25	193	≤750	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
Oil & Grease	mg/L	-	3	5	≤10	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Bangkok
pH (on site) *		-	-	7.4	5.5-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Temperature *	Degree C	-	-	31.6	≤45	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	137	≤200	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

Guideline : Standard of WHA Saraburi Industrial Land, Maximum levels for wastewater discharging to central wastewater treatment plant.
Sampling By : Panupong Sanei ทะเบียนเลขที่ ว-204-ว-0204

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

Technical Management Suwimon Chairungput, Scientist (3), ทะเบียนเลขที่ ว-204-ว-0018
Approved by Kanokkorn Anek, Assistant General Manager, ทะเบียนเลขที่ ว-204-ค-0004

Analysis / Test Report

TESTING No.0009

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name : Factory / Monthly
Project Location: WHA SIL

Lot ID: 2569502
Date Received : Aug 01, 2025
Date Reported : Aug 09, 2025
Report Number : 3365770-1

Page 1 of 1

Sample Number	2569502-1
Sampled Date	Aug 01, 2025 1:30 PM
Sample Description	Group 2 Wastewater WW-CT
Contract ID	SIL_053_2554 **Plot** 38 **Site** Ready Clean Co.,Ltd.
Date Analysis Commenced	Aug 02, 2025
Condition of Sample	Contained in one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property	Yellow, some odour, solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2.0	20.0	≤500	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Bangkok
COD	mg/L	-	25	98	≤750	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
Oil & Grease	mg/L	-	3	9	≤10	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Bangkok
pH (on site) *		-	-	8.0	5.5-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Temperature *	Degree C	-	-	33.3	≤45	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	19	≤200	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

Guideline : Standard of WHA Saraburi Industrial Land, Maximum levels for wastewater discharging to central wastewater treatment plant.
Sampling By : Teerawat Puangsuk ทะเบียนเลขที่ ว-204-ว-0058

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

Technical Management Nanthawadee Somboon, Specialist 2, ทะเบียนเลขที่ ว-204-ว-0010
Approved by Kanokkorn Anek, Assistant General Manager, ทะเบียนเลขที่ ว-204-ค-0004

Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name : Factory / Monthly
Project Location: WHA SIL

Lot ID: 2569502
Date Received : Aug 01, 2025
Date Reported : Aug 09, 2025
Report Number : 3365770-2

Page 1 of 1

Sample Number	2569502-1
Sampled Date	Aug 01, 2025 1:30 PM
Sample Description	Group 2 Wastewater WW-CT
Contract ID	SIL_053_2554 **Plot** 36 **Site** Ready Clean Co.,Ltd.
Date Analysis Commenced	Aug 04, 2025
Condition of Sample	Contained in one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property	Yellow, some odour, solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Anionic Surfactant as MBAS	mg/L	0.015	0.05	3.91	≤30	Based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5540 B, C	Bangkok

Guideline : Standard of WHA Saraburi Industrial Land, Maximum levels for wastewater discharging to central wastewater treatment plant.
Sampling By : Teerawat Puangsuk

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

Approved by Nanthawadee Somboon, Specialist 2

Analysis / Test Report

TESTING No.0009

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name : Factory I Monthly
Project Location: WHA SIL

Lot ID: 2569440
Date Received : Aug 01, 2025
Date Reported : Aug 08, 2025
Report Number : 3365465-1

Sample Number	2569440-1
Sampled Date	Aug 01, 2025 9:30 AM
Sample Description	Group 2 Wastewater WW-CT
Contract ID	SIL_047_2556 **Plot** 138 **Site** Rohm Mechatech (Thailand) Co.,Ltd.
Date Analysis Commenced	Aug 02, 2025
Condition of Sample	Contained in one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property	Yellow, some odour, solid and no turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2.0	3.5	≤500	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Bangkok
COD	mg/L	-	25	<25	≤750	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Bangkok
pH (on site) *		-	-	7.7	5.5-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Temperature *	Degree C	-	-	30.8	≤45	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	8	≤200	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

Guideline : Standard of WHA Saraburi Industrial Land, Maximum levels for wastewater discharging to central wastewater treatment plant.
Sampling By : Panupong Sanei ทะเบียนเลขที่ ว-204-ว-0204

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

Technical Management Suwimon C
Suwimon Chairungwut
Scientist (3)
ทะเบียนเลขที่ ว-204-ว-0018

Approved by Kanokkorn Anek
Kanokkorn Anek
Assistant General Manager
ทะเบียนเลขที่ ว-204-ล-0004

Analysis / Test Report

TESTING No.0009

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name : Factory I Monthly
Project Location: WHA SIL

Lot ID: 2569460
Date Received : Aug 01, 2025
Date Reported : Aug 08, 2025
Report Number : 3365554-1

Sample Number	2569460-1
Sampled Date	Aug 01, 2025 11:45 AM
Sample Description	Group 2 Wastewater WW-CT
Contract ID	SIL_001_2560 **Plot** 91 **Site** SCG Ceramics Co.,Ltd.
Date Analysis Commenced	Aug 02, 2025
Condition of Sample	Contained in one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property	Yellow, odourless, some solid and no turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2.0	<2.0	≤500	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Bangkok
COD	mg/L	-	25	<25	≤750	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Bangkok
pH (on site) *		-	-	7.3	5.5-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Temperature *	Degree C	-	-	30.4	≤45	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	<5	≤200	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

Guideline : Standard of WHA Saraburi Industrial Land, Maximum levels for wastewater discharging to central wastewater treatment plant.
Sampling By : Teerawat Puangsuk ทะเบียนเลขที่ ว-204-ว-0058

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

Technical Management Siriluk P.
Siriluk Bunnak
Section Head
ทะเบียนเลขที่ ว-204-ว-0013

Approved by Kanokkorn Anek
Kanokkorn Anek
Assistant General Manager
ทะเบียนเลขที่ ว-204-ล-0004

Analysis / Test Report

TESTING No.0009

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name : Factory I Monthly
Project Location: WHA SIL

Lot ID: 2569469
Date Received : Aug 01, 2025
Date Reported : Aug 08, 2025
Report Number : 3365626-1

Sample Number	2569469-1
Sampled Date	Aug 01, 2025 1:40 PM
Sample Description	Group 2 Wastewater WW-CT
Contract ID	SIL_001_2565 **Plot** 14 **Site** SCG Landscape
Date Analysis Commenced	Aug 02, 2025
Condition of Sample	Contained in one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA/USEPA)
Physical Property	Black, a lot of odour, solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2.0	5.9	≤500	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Bangkok
COD	mg/L	-	25	31	≤750	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Bangkok
pH (on site) *		-	-	7.4	5.5-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Temperature *	Degree C	-	-	33.2	≤45	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	14	≤200	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

Guideline : Standard of WHA Saraburi Industrial Land, Maximum levels for wastewater discharging to central wastewater treatment plant.
Sampling By : Chawanthat Nakpanom ทะเบียนเลขที่ ว-204-ว-0087

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

Technical Management Siriluk P.
Siriluk Bunnak
Section Head
ทะเบียนเลขที่ ว-204-ว-0013

Approved by Kanokkorn Anek
Kanokkorn Anek
Assistant General Manager
ทะเบียนเลขที่ ว-204-ล-0004

Analysis / Test Report

TESTING No.0009

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name : Factory I Monthly
Project Location: WHA SIL

Lot ID: 2569405
Date Received : Aug 01, 2025
Date Reported : Aug 08, 2025
Report Number : 3365389-1

Sample Number	2569405-1
Sampled Date	Aug 01, 2025 1:40 PM
Sample Description	Group 2 Wastewater WW-CT
Contract ID	SIL_002_2554 **Plot** 10, 11 **Site** SCG Roofing Co.,Ltd
Date Analysis Commenced	Aug 02, 2025
Condition of Sample	Contained in one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property	Yellow, odourless, some solid and no turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2.0	3.7	≤500	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Bangkok
COD	mg/L	-	25	<25	≤750	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Bangkok
pH (on site) *		-	-	7.2	5.5-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Temperature *	Degree C	-	-	31.3	≤45	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	15	≤200	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

Guideline : Standard of WHA Saraburi Industrial Land, Maximum levels for wastewater discharging to central wastewater treatment plant.
Sampling By : Teerawat Puangsuk ทะเบียนเลขที่ ว-204-ว-0058

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

Technical Management Suwimon C
Suwimon Chairungwut
Scientist (3)
ทะเบียนเลขที่ ว-204-ว-0018

Approved by Kanokkorn Anek
Kanokkorn Anek
Assistant General Manager
ทะเบียนเลขที่ ว-204-ล-0004

Analysis / Test Report

TESTING No.0009

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name : Factory I Monthly
Project Location: WHA SIL

Lot ID: 2569424
Date Received : Aug 01, 2025
Date Reported : Aug 08, 2025
Report Number : 3365438-1

Sample Number	2569424-1
Sampled Date	Aug 01, 2025 11:15 AM
Sample Description	Group 2 Wastewater WW-CT
Contract ID	SIL_015_2554 **Plot** 10,41 **Site** SCG Roofing Co.,Ltd
Date Analysis Commenced	Aug 02, 2025
Condition of Sample	Contained in one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property	Colorless, odourless, some solid and no turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2.0	<2.0	≤500	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Bangkok
COD	mg/L	-	25	<25	≤750	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Bangkok
pH (on site) *		-	-	7.2	5.5-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Temperature *	Degree C	-	-	31.8	≤45	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	<5	≤200	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

Guideline : Standard of WHA Saraburi Industrial Land, Maximum levels for wastewater discharging to central wastewater treatment plant.
Sampling By : Teerawat Puangsuk ทะเบียนเลขที่ ว-204-ว-0058

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

Technical Management Suwimon C
Suwimon Chairungwut
Scientist (3)
ทะเบียนเลขที่ ว-204-ว-0018

Approved by Kanokkorn Anek
Kanokkorn Anek
Assistant General Manager
ทะเบียนเลขที่ ว-204-ล-0004

Analysis / Test Report

TESTING No.0009

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name : Factory I Monthly
Project Location: WHA SIL

Lot ID: 2569497
Date Received : Aug 01, 2025
Date Reported : Aug 07, 2025
Report Number : 3365780-1

Sample Number	2569497-1
Sampled Date	Aug 01, 2025 10:35 AM
Sample Description	Group 2 Wastewater WW-CT
Contract ID	SIL_006_2568 **Plot** 27D **Site** Scholm Technology (Thailand) Company Limited
Date Analysis Commenced	Aug 02, 2025
Condition of Sample	Contained in three plastic bottles and one amber glass bottle, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property	Yellow, a lot of odour, some solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2.0	8.7	≤500	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Bangkok
COD	mg/L	-	25	46	≤750	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Bangkok
pH (on site) *		-	-	7.4	5.5-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Temperature *	Degree C	-	-	31.7	≤45	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	18	≤200	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

Guideline : Standard of WHA Saraburi Industrial Land, Maximum levels for wastewater discharging to central wastewater treatment plant.
Sampling By : Panupong Sanei ทะเบียนเลขที่ ว-204-ว-0204

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

Technical Management Suwimon C
Suwimon Chairungwut
Scientist (3)
ทะเบียนเลขที่ ว-204-ว-0018

Approved by Kanokkorn Anek
Kanokkorn Anek
Assistant General Manager
ทะเบียนเลขที่ ว-204-ล-0004

Analysis / Test Report

TESTING No.0009

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name : Factory I Monthly
Project Location: WHA SIL

Lot ID: 2569416
Date Received : Aug 06, 2025
Date Reported : Aug 14, 2025
Report Number : 3365416-1

Sample Number	2569416-1
Sampled Date	Aug 06, 2025 10:35 AM
Sample Description	Group 2 Wastewater WW-CT
Contract ID	SIL_015_2556 **Plot** 61,62 **Site** SEKI Corp (Thailand) Co.,Ltd.
Date Analysis Commenced	Aug 07, 2025
Condition of Sample	Contained in one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA/USEPA)
Physical Property	Yellow, a lot of odour, solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2.0	134	≤500	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Bangkok
COD	mg/L	-	25	300	≤750	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Bangkok
pH (on site) *		-	-	6.8	5.5-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Temperature *	Degree C	-	-	32.0	≤45	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	31	≤200	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

Guideline : Standard of WHA Saraburi Industrial Land, Maximum levels for wastewater discharging to central wastewater treatment plant.
Sampling By : Panupong Sanei ทะเบียนเลขที่ ว-204-ว-0204

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

Technical Management Narin Saeeng
Narin Saeeng
Supervisor
ทะเบียนเลขที่ ว-204-ว-0009

Approved by Kanokkorn Anek
Kanokkorn Anek
Assistant General Manager
ทะเบียนเลขที่ ว-204-ล-0004

Analysis / Test Report

TESTING No.0009

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name : Factory I Monthly
Project Location: WHA SIL

Lot ID: 2569444
Date Received : Aug 06, 2025
Date Reported : Aug 14, 2025
Report Number : 3365481-1

Sample Number	2569444-1
Sampled Date	Aug 06, 2025 9:50 AM
Sample Description	Group 2 Wastewater WW-CT
Contract ID	SIL_057_2556 **Plot** 66 **Site** Sekisui Plastics (Thailand) Co.,Ltd.
Date Analysis Commenced	Aug 07, 2025
Condition of Sample	Contained in one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA/USEPA)
Physical Property	Yellow, some odour, solid and no turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2.0	4.9	≤500	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Bangkok
COD	mg/L	-	25	34	≤750	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Bangkok
pH (on site) *		-	-	8.4	5.5-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Temperature *	Degree C	-	-	37.6	≤45	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	<5	≤200	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

Guideline : Standard of WHA Saraburi Industrial Land, Maximum levels for wastewater discharging to central wastewater treatment plant.
Sampling By : Panupong Sanei ทะเบียนเลขที่ ว-204-ว-0204

Remark :
- LOD : Limit of Detection
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- Sampling is not included in scope of accreditation ISO/IEC 17025

Technical Management Narin Saeeng
Narin Saeeng
Supervisor
ทะเบียนเลขที่ ว-204-ว-0009

Approved by Kanokkorn Anek
Kanokkorn Anek
Assistant General Manager
ทะเบียนเลขที่ ว-204-ล-0004

Analysis / Test Report

TESTING No.0009

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name : Factory I Monthly
Project Location: WHA SIL

Lot ID: 2569437
Date Received : Aug 01, 2025
Date Reported : Aug 08, 2025
Report Number : 3365462-1

Sample Number	2569437-1
Sampled Date	Aug 01, 2025 11:00 AM
Sample Description	Group 2 Wastewater WW-CT
Contract ID	SIL_071_2557 **Plot** 144,145 **Site** Sekisui-SCG Industrial Co.,Ltd.
Location	Point 1
Date Analysis Commenced	Aug 02, 2025
Condition of Sample	Contained in one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property	Colorless, odourless, some solid and no turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2.0	<2.0	≤500	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Bangkok
COD	mg/L	-	25	<25	≤750	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Bangkok
pH (on site) *		-	-	7.6	5.5-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Temperature *	Degree C	-	-	29.5	≤45	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	<5	≤200	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

Guideline : Standard of WHA Saraburi Industrial Land, Maximum levels for wastewater discharging to central wastewater treatment plant.
Sampling By : Teerawat Puangsuk ทะเบียนเลขที่ ว-204-ว-0058

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

Technical Management Suwimon C
Suwimon Chairungwut
Scientist (3)
ทะเบียนเลขที่ ว-204-ว-0018

Approved by Kanokkorn Anek
Kanokkorn Anek
Assistant General Manager
ทะเบียนเลขที่ ว-204-ล-0004

Analysis / Test Report

TESTING No.0009

Lot ID: 2569438
Date Received : Aug 01, 2025
Date Reported : Aug 08, 2025
Report Number : 3365463-1

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name : Factory I Monthly
Project Location: WHA SIL

Page 1 of 1

Sample Number	2569438-1
Sampled Date	Aug 01, 2025 10:50 AM
Sample Description	Group 2 Wastewater WW-CT
Contract ID	SIL_005_2558 **Plot** 144,145 **Site** Sekisui-SCG Industrial Co.,Ltd
Location	Point 2
Date Analysis Commenced	Aug 02, 2025
Condition of Sample	Contained in one amber glass bottle and three plastic bottles. sample containers comply to pretreatment - preservation standards (APHA/USEPA)
Physical Property	Yellow, odourless, some solid and no turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2.0	<2.0	≤500	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Bangkok
COD	mg/L	-	25	<25	≤750	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Bangkok
pH (on site) *		-	-	7.7	5.5-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Temperature *	Degree C	-	-	31.7	≤45	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	14	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

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

Sampling By : Teerawat Puangsuk ทะเบียนเลขที่ ว-204-ว-0058

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

Technical Management Suwimon Chairuangwut, Scientist (3), ทะเบียนเลขที่ ว-204-ว-0018
Approved by Kanokkorn Anek, Assistant General Manager, ทะเบียนเลขที่ ว-204-ว-0004

Analysis / Test Report

TESTING No.0009

Lot ID: 2569447
Date Received : Aug 06, 2025
Date Reported : Aug 14, 2025
Report Number : 3369497-1

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name : Factory I Monthly
Project Location: WHA SIL

Page 1 of 1

Sample Number	2569447-1
Sampled Date	Aug 06, 2025 9:40 AM
Sample Description	Group 2 Wastewater WW-CT
Contract ID	SIL_068_2557 **Plot** 59 **Site** Shibakawa (Thailand) Co.,Ltd.
Location	Point 2
Date Analysis Commenced	Aug 07, 2025
Condition of Sample	Contained in one amber glass bottle and three plastic bottles. sample containers comply to pretreatment - preservation standards (APHA/USEPA)
Physical Property	Yellow, a lot of odour, some solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2.0	5.3	≤500	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Bangkok
COD	mg/L	-	25	39	≤750	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Bangkok
pH (on site) *		-	-	7.9	5.5-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Temperature *	Degree C	-	-	32.7	≤45	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	18	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

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

Sampling By : Panupong Sanet ทะเบียนเลขที่ ว-204-ว-0204

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

Technical Management Narin Saeeng, Supervisor, ทะเบียนเลขที่ ว-204-ว-0009
Approved by Kanokkorn Anek, Assistant General Manager, ทะเบียนเลขที่ ว-204-ว-0004

Analysis / Test Report

TESTING No.0009

Lot ID: 2569453
Date Received : Aug 01, 2025
Date Reported : Aug 08, 2025
Report Number : 3365534-1

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name : Factory I Monthly
Project Location: WHA SIL

Page 1 of 1

Sample Number	2569453-1
Sampled Date	Aug 01, 2025 10:55 AM
Sample Description	Group 2 Wastewater WW-CT
Contract ID	SIL_081_2557 **Plot** 150 **Site** Shinentech (SWCT Co.,Ltd.)
Date Analysis Commenced	Aug 02, 2025
Condition of Sample	Contained in one amber glass bottle and three plastic bottles. sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property	Yellow, some odour, solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2.0	3.4	≤500	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Bangkok
COD	mg/L	-	25	76	≤750	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Bangkok
pH (on site) *		-	-	7.9	5.5-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Temperature *	Degree C	-	-	30.7	≤45	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	154	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

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

Sampling By : Chawanthat Nakpanom ทะเบียนเลขที่ ว-204-ว-0087

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

Technical Management Siriluk Bunnak, Section Head, ทะเบียนเลขที่ ว-204-ว-0013
Approved by Kanokkorn Anek, Assistant General Manager, ทะเบียนเลขที่ ว-204-ว-0004

Analysis / Test Report

TESTING No.0009

Lot ID: 2569506
Date Received : Aug 01, 2025
Date Reported : Aug 08, 2025
Report Number : 3365777-1

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name : Factory I Monthly
Project Location: WHA SIL

Page 1 of 2

Sample Number	2569506-1
Sampled Date	Aug 01, 2025 1:20 PM
Sample Description	Group 2 Wastewater WW-CT
Contract ID	SIL_052_2554 **Plot** 8 **Site** SIAM FIBERGLASS COMPANY LIMITED
Date Analysis Commenced	Aug 02, 2025
Condition of Sample	Contained in one amber glass bottle and three plastic bottles. sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property	Green, some odour, solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2.0	30.1	≤500	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Bangkok
COD	mg/L	-	25	132	≤750	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
Formaldehyde	mg/L	0.03	0.1	0.1	≤1	Wastewater analysis manual, Environmental Engineering Association of Thailand, 4th ed., 2004	Bangkok
Oil & Grease	mg/L	-	3	4	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Bangkok
pH (on site) *		-	-	7.8	5.5-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Temperature *	Degree C	-	-	32.1	≤45	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	38	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

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

Sampling By : Teerawat Puangsuk ทะเบียนเลขที่ ว-204-ว-0058

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

Technical Management Siriluk Bunnak, Section Head, ทะเบียนเลขที่ ว-204-ว-0013
Approved by Kanokkorn Anek, Assistant General Manager, ทะเบียนเลขที่ ว-204-ว-0004

Analysis / Test Report

TESTING No.0009

Lot ID: 2569506
Date Received : Aug 01, 2025
Date Reported : Aug 08, 2025
Report Number : 3365777-1

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name : Factory I Monthly
Project Location: WHA SIL

Page 2 of 2

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

Technical Management Siriluk Bunnak, Section Head, ทะเบียนเลขที่ ว-204-ว-0013
Approved by Kanokkorn Anek, Assistant General Manager, ทะเบียนเลขที่ ว-204-ว-0004

Analysis / Test Report

TESTING No.0009

Lot ID: 2569509
Date Received : Aug 06, 2025
Date Reported : Aug 14, 2025
Report Number : 3365784-1

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name : Factory I Monthly
Project Location: WHA SIL

Page 1 of 2

Sample Number	2569509-1
Sampled Date	Aug 06, 2025 9:15 AM
Sample Description	Group 2 Wastewater WW-CT
Contract ID	SIL_050_2554 **Plot** 69 **Site** Siam Furukawa Co.,Ltd. (2nd)
Date Analysis Commenced	Aug 07, 2025
Condition of Sample	Contained in one amber glass bottle and four plastic bottles. sample containers comply to pretreatment - preservation standards (APHA/USEPA)
Physical Property	Yellow, some odour, solid and no turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Lead	mg/L	0.0003	0.0005	0.009	≤0.2	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2.0	2.1	≤500	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Bangkok
COD	mg/L	-	25	<25	≤750	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Bangkok
pH (on site) *		-	-	7.7	5.5-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Temperature *	Degree C	-	-	31.4	≤45	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	904	≤3000	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	<5	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

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

Technical Management Chanattagarn Inchom, Section Head, ทะเบียนเลขที่ ว-204-ว-0008
Approved by Kanokkorn Anek, Assistant General Manager, ทะเบียนเลขที่ ว-204-ว-0004

Analysis / Test Report

TESTING No.0009

Lot ID: 2569509
Date Received : Aug 06, 2025
Date Reported : Aug 14, 2025
Report Number : 3365784-1

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name : Factory I Monthly
Project Location: WHA SIL

Page 2 of 2

Sampling By : Panupong Sanet ทะเบียนเลขที่ ว-204-ว-0204

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

Technical Management Chanattagarn Inchom, Section Head, ทะเบียนเลขที่ ว-204-ว-0008
Approved by Kanokkorn Anek, Assistant General Manager, ทะเบียนเลขที่ ว-204-ว-0004

Analysis / Test Report

TESTING No.0009

Lot ID: 2569508
Date Received : Aug 01, 2025
Date Reported : Aug 08, 2025
Report Number : 3365780-1

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name : Factory I Monthly
Project Location: WHA SIL

Page 1 of 2

Sample Number	2569508-1
Sampled Date	Aug 01, 2025 10:20 AM
Sample Description	Group 2 Wastewater WW-CT
Contract ID	SIL_050_2554 **Plot** 69 **Site** Siam Furukawa Co.,Ltd.(1st)
Date Analysis Commenced	Aug 02, 2025
Condition of Sample	Contained in one amber glass bottle and four plastic bottles. sample containers comply to pretreatment - preservation standards (APHA/USEPA)
Physical Property	Colorless, some odour, no solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Lead	mg/L	0.0003	0.0005	0.006	≤0.2	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2.0	<2.0	≤500	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Bangkok
COD	mg/L	-	25	<25	≤750	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Bangkok
pH (on site) *		-	-	7.6	5.5-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Temperature *	Degree C	-	-	30.9	≤45	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	372	≤3000	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	<5	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

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

Technical Management Sawitree Noisangiam, Manager, ทะเบียนเลขที่ ว-204-ว-0007
Approved by Kanokkorn Anek, Assistant General Manager, ทะเบียนเลขที่ ว-204-ว-0004

Analysis / Test Report

TESTING No.0009

Lot ID: 2569508
Date Received : Aug 01, 2025
Date Reported : Aug 08, 2025
Report Number : 3365780-1

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name : Factory I Monthly
Project Location: WHA SIL

Page 2 of 2

Sampling By : Chawanthat Nakpanom ทะเบียนเลขที่ ว-204-ว-0087

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

Technical Management Sawitree Noisangiam, Manager, ทะเบียนเลขที่ ว-204-ว-0007
Approved by Kanokkorn Anek, Assistant General Manager, ทะเบียนเลขที่ ว-204-ว-0004

Analysis / Test Report

TESTING No.0009

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name : Factory I Monthly
Project Location: WHA SIL

Lot ID: 2569466
Date Received : Aug 01, 2025
Date Reported : Aug 08, 2025
Report Number : 3365590-1

Page 1 of 1

Sample Number	2569466-1
Sampled Date	Aug 01, 2025 10:00 AM
Sample Description	Group 2 Wastewater WW-CT
Contract ID	SIL_010_2560 **Plot** 31 **Site** Siam Furukawa Co.,Ltd.
Date Analysis Commenced	Aug 02, 2025
Condition of Sample	Contained in one amber glass bottle and three plastic bottles. sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property	Yellow, some odour, solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2.0	7.1	≤500	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Bangkok
COD	mg/L	-	25	44	≤750	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Bangkok
pH (on site) *		-	-	8.0	5.5-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Temperature *	Degree C	-	-	31.1	≤45	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	11	≤200	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

Guideline : Standard of WHA Saraburi Industrial Land, Maximum levels for wastewater discharging to central wastewater treatment plant.
Sampling By : Chawanthat Nakpanom ทะเบียนเลขที่ ว-204-ส-0087

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

Technical Management: Siriluk P. — Siriluk Bunnak, Section Head, ทะเบียนเลขที่ ว-204-ส-0013
Approved by: Kanokkorn Anek, Assistant General Manager, ทะเบียนเลขที่ ว-204-ส-0004

Analysis / Test Report

TESTING No.0009

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name : Factory I Monthly
Project Location: WHA SIL

Lot ID: 2569422
Date Received : Aug 01, 2025
Date Reported : Aug 08, 2025
Report Number : 3365435-1

Page 1 of 1

Sample Number	2569422-1
Sampled Date	Aug 01, 2025 9:45 AM
Sample Description	Group 2 Wastewater WW-CT
Contract ID	SIL_022_2554 **Plot** 55 **Site** Siam Furukawa Co.,Ltd.
Date Analysis Commenced	Aug 02, 2025
Condition of Sample	Contained in one amber glass bottle and three plastic bottles. sample containers comply to pretreatment - preservation standards (APHA/USEPA)
Physical Property	Yellow, a lot of odour, solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2.0	132	≤500	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Bangkok
COD	mg/L	-	25	238	≤750	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
Oil & Grease	mg/L	-	3	7	≤10	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Bangkok
pH (on site) *		-	-	7.9	5.5-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Temperature *	Degree C	-	-	34.7	≤45	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	115	≤200	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

Guideline : Standard of WHA Saraburi Industrial Land, Maximum levels for wastewater discharging to central wastewater treatment plant.
Sampling By : Chawanthat Nakpanom ทะเบียนเลขที่ ว-204-ส-0087

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

Technical Management: Suwimon C. — Suwimon Chaisangwut, Scientist (3), ทะเบียนเลขที่ ว-204-ส-0018
Approved by: Kanokkorn Anek, Assistant General Manager, ทะเบียนเลขที่ ว-204-ส-0004

Analysis / Test Report

TESTING No.0009

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name : Factory I Monthly
Project Location: WHA SIL

Lot ID: 2569417
Date Received : Aug 04, 2025
Date Reported : Aug 11, 2025
Report Number : 3365421-1

Page 1 of 1

Sample Number	2569417-1
Sampled Date	Aug 04, 2025 11:20 AM
Sample Description	Group 2 Wastewater WW-CT
Contract ID	SIL_016_2554 **Plot** 9,15 **Site** Siam Gypsum Industry (Saraburi) Co.,Ltd.
Location	Factory 1
Date Analysis Commenced	Aug 05, 2025
Condition of Sample	Contained in one amber glass bottle and three plastic bottles. sample containers comply to pretreatment - preservation standards (APHA/USEPA)
Physical Property	Yellow, some odour, solid and no turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2.0	2.2	≤500	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Bangkok
COD	mg/L	-	25	<25	≤750	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Bangkok
pH (on site) *		-	-	7.3	5.5-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Temperature *	Degree C	-	-	32.1	≤45	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	<5	≤200	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

Guideline : Standard of WHA Saraburi Industrial Land, Maximum levels for wastewater discharging to central wastewater treatment plant.
Sampling By : Panupong Sanet ทะเบียนเลขที่ ว-204-ส-0204

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

Technical Management: Siriluk P. — Siriluk Bunnak, Section Head, ทะเบียนเลขที่ ว-204-ส-0013
Approved by: Kanokkorn Anek, Assistant General Manager, ทะเบียนเลขที่ ว-204-ส-0004

Analysis / Test Report

TESTING No.0009

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name : Factory I Monthly
Project Location: WHA SIL

Lot ID: 2569418
Date Received : Aug 01, 2025
Date Reported : Aug 08, 2025
Report Number : 3365425-1

Page 1 of 1

Sample Number	2569418-1
Sampled Date	Aug 01, 2025 11:10 AM
Sample Description	Group 2 Wastewater WW-CT
Contract ID	SIL_017_2554 **Plot** 42,79,98 **Site** Siam Gypsum Industry (Saraburi) Co.,Ltd.
Location	Factory 2
Date Analysis Commenced	Aug 02, 2025
Condition of Sample	Contained in one amber glass bottle and three plastic bottles. sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property	Yellow, a lot of odour, some solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2.0	43.5	≤500	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Bangkok
COD	mg/L	-	25	138	≤750	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Bangkok
pH (on site) *		-	-	8.0	5.5-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Temperature *	Degree C	-	-	33.4	≤45	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	86	≤200	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

Guideline : Standard of WHA Saraburi Industrial Land, Maximum levels for wastewater discharging to central wastewater treatment plant.
Sampling By : Chamarong Sriburin ทะเบียนเลขที่ ว-204-ส-0149

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

Technical Management: Suwimon C. — Suwimon Chaisangwut, Scientist (3), ทะเบียนเลขที่ ว-204-ส-0018
Approved by: Kanokkorn Anek, Assistant General Manager, ทะเบียนเลขที่ ว-204-ส-0004

Analysis / Test Report

TESTING No.0009

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name : Factory I Monthly
Project Location: WHA SIL

Lot ID: 2569468
Date Received : Aug 06, 2025
Date Reported : Aug 14, 2025
Report Number : 3365611-1

Page 1 of 1

Sample Number	2569468-1
Sampled Date	Aug 06, 2025 10:20 AM
Sample Description	Group 2 Wastewater WW-CT
Contract ID	SIL_005_2562 **Plot** 63 **Site** Siam Hanamaruki Co.,Ltd.
Location	[illegible]
Date Analysis Commenced	Aug 07, 2025
Condition of Sample	Contained in one amber glass bottle and three plastic bottles. sample containers comply to pretreatment - preservation standards (APHA/USEPA)
Physical Property	Yellow, a lot of odour, some solid and a lot of turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2.0	149	≤500	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Bangkok
COD	mg/L	-	25	250	≤750	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
Oil & Grease	mg/L	-	3	5	≤10	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Bangkok
pH (on site) *		-	-	7.2	5.5-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Temperature *	Degree C	-	-	32.9	≤45	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	90	≤200	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

Guideline : Standard of WHA Saraburi Industrial Land, Maximum levels for wastewater discharging to central wastewater treatment plant.
Sampling By : Panupong Sanet ทะเบียนเลขที่ ว-204-ส-0204

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

Technical Management: Narin Saiseng, Supervisor, ทะเบียนเลขที่ ว-204-ส-0009
Approved by: Kanokkorn Anek, Assistant General Manager, ทะเบียนเลขที่ ว-204-ส-0004

Analysis / Test Report

TESTING No.0009

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name : Factory I Monthly
Project Location: WHA SIL

Lot ID: 2569420
Date Received : Aug 01, 2025
Date Reported : Aug 08, 2025
Report Number : 3365432-1

Page 1 of 1

Sample Number	2569420-1
Sampled Date	Aug 01, 2025 1:45 PM
Sample Description	Group 2 Wastewater WW-CT
Contract ID	SIL_020_2554 **Plot** 74 **Site** Siam NGK Technocera Co.,Ltd.
Date Analysis Commenced	Aug 02, 2025
Condition of Sample	Contained in one amber glass bottle and three plastic bottles. sample containers comply to pretreatment - preservation standards (APHA/USEPA)
Physical Property	White, a lot of odour, solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2.0	16.9	≤500	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Bangkok
COD	mg/L	-	25	87	≤750	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Bangkok
pH (on site) *		-	-	7.2	5.5-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Temperature *	Degree C	-	-	32.5	≤45	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	128	≤200	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

Guideline : Standard of WHA Saraburi Industrial Land, Maximum levels for wastewater discharging to central wastewater treatment plant.
Sampling By : Chawanthat Nakpanom ทะเบียนเลขที่ ว-204-ส-0087

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

Technical Management: Suwimon C. — Suwimon Chaisangwut, Scientist (3), ทะเบียนเลขที่ ว-204-ส-0018
Approved by: Kanokkorn Anek, Assistant General Manager, ทะเบียนเลขที่ ว-204-ส-0004

Analysis / Test Report

TESTING No.0009

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name : Factory I Monthly
Project Location: WHA SIL

Lot ID: 2569421
Date Received : Aug 01, 2025
Date Reported : Aug 08, 2025
Report Number : 3365434-1

Page 1 of 1

Sample Number	2569421-1
Sampled Date	Aug 01, 2025 9:50 AM
Sample Description	Group 2 Wastewater WW-CT
Contract ID	SIL_021_2554 **Plot** 58 **Site** Siam Toto Ceramics Co.,Ltd.
Date Analysis Commenced	Aug 02, 2025
Condition of Sample	Contained in one amber glass bottle and three plastic bottles. sample containers comply to pretreatment - preservation standards (APHA/USEPA)
Physical Property	Yellow, a lot of odour, some solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2.0	12.1	≤500	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Bangkok
COD	mg/L	-	25	41	≤750	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Bangkok
pH (on site) *		-	-	7.6	5.5-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Temperature *	Degree C	-	-	31.2	≤45	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	93	≤200	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

Guideline : Standard of WHA Saraburi Industrial Land, Maximum levels for wastewater discharging to central wastewater treatment plant.
Sampling By : Chawanthat Nakpanom ทะเบียนเลขที่ ว-204-ส-0087

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

Technical Management: Suwimon C. — Suwimon Chaisangwut, Scientist (3), ทะเบียนเลขที่ ว-204-ส-0018
Approved by: Kanokkorn Anek, Assistant General Manager, ทะเบียนเลขที่ ว-204-ส-0004

Analysis / Test Report

TESTING No.0009

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name : Factory I Monthly
Project Location: WHA SIL

Lot ID: 2569439
Date Received : Aug 01, 2025
Date Reported : Aug 08, 2025
Report Number : 3365464-1

Page 1 of 1

Sample Number	2569439-1
Sampled Date	Aug 01, 2025 9:35 AM
Sample Description	Group 2 Wastewater WW-CT
Contract ID	SIL_046_2556 **Plot** 132 **Site** SLDK (Thailand) Co.,Ltd.
Date Analysis Commenced	Aug 02, 2025
Condition of Sample	Contained in one amber glass bottle and three plastic bottles. sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property	Yellow, a lot of odour, some solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2.0	45.4	≤500	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Bangkok
COD	mg/L	-	25	198	≤750	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
Oil & Grease	mg/L	-	3	6	≤10	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Bangkok
pH (on site) *		-	-	7.6	5.5-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Temperature *	Degree C	-	-	31.2	≤45	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	64	≤200	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

Guideline : Standard of WHA Saraburi Industrial Land, Maximum levels for wastewater discharging to central wastewater treatment plant.
Sampling By : Panupong Sanet ทะเบียนเลขที่ ว-204-ส-0204

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

Technical Management: Suwimon C. — Suwimon Chaisangwut, Scientist (3), ทะเบียนเลขที่ ว-204-ส-0018
Approved by: Kanokkorn Anek, Assistant General Manager, ทะเบียนเลขที่ ว-204-ส-0004

Analysis / Test Report

TESTING No.0009

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name : Factory I Monthly
Project Location: WHA SIL

Lot ID: 2569470
Date Received : Aug 04, 2025
Date Reported : Aug 11, 2025
Report Number : 3365627-1

Page 1 of 1

Sample Number	2569470-1
Sampled Date	Aug 04, 2025 1:40 PM
Sample Description	Group 2 Wastewater WW-CT
Contract ID	SIL_003_2560 **Plot** 138-140 **Site** TERAHOP (THAILAND) CO., LTD
Date Analysis Commenced	Aug 05, 2025
Condition of Sample	Contained in one amber glass bottle and three plastic bottles. sample containers comply to pretreatment - preservation standards (APHA/USEPA)
Physical Property	Yellow, a lot of odour, some solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2.0	6.4	≤500	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Bangkok
COD	mg/L	-	25	40	≤750	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Bangkok
pH (on site) *		-	-	7.8	5.5-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Temperature *	Degree C	-	-	34.9	≤45	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	23	≤200	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

Guideline : Standard of WHA Saraburi Industrial Land, Maximum levels for wastewater discharging to central wastewater treatment plant.
Sampling By : Panupong Sanet ทะเบียนเลขที่ ว-204-ส-0204

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

Technical Management: Siriluk P. — Siriluk Bunnak, Section Head, ทะเบียนเลขที่ ว-204-ส-0013
Approved by: Kanokkorn Anek, Assistant General Manager, ทะเบียนเลขที่ ว-204-ส-0004

Analysis / Test Report

TESTING No.0009

Lot ID: 2569423
Date Received : Aug 04, 2025
Date Reported : Aug 11, 2025
Report Number : 3365437-1

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name : Factory I Monthly
Project Location: WHA SIL

Sample Number 2569423-1
Sampled Date Aug 04, 2025 11:40 AM
Sample Description Group 2 Wastewater WW-CT
Contract ID SIL_024_2554 **Plot** 23 **Site** Thai Beverage Can Co.,Ltd.
Location Point 2
Date Analysis Commenced Aug 05, 2025
Condition of Sample Contained in one amber glass bottle and three plastic bottles. sample containers comply to pretreatment - preservation standards (APHA/USEPA)
Physical Property Colorless, some odour, solid and no turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2.0	<2.0	≤500	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Bangkok
COD	mg/L	-	25	<25	≤750	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Bangkok
pH (on site) *		-	-	7.8	5.5-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Temperature *	Degree C	-	-	35.2	≤45	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	<5	≤200	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

Guideline : Standard of WHA Saraburi Industrial Land, Maximum levels for wastewater discharging to central wastewater treatment plant.
Sampling By : Panupong Saneri ทะเบียนเลขที่ ว-204-ว-0204

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

Technical Management Siriluk P. — Siriluk Bunnak, Section Head, ทะเบียนเลขที่ ว-204-ว-0013
Approved by Kanokkorn Anek, Assistant General Manager, ทะเบียนเลขที่ ว-204-ง-0004

Analysis / Test Report

TESTING No.0009

Lot ID: 2569477
Date Received : Aug 04, 2025
Date Reported : Aug 11, 2025
Report Number : 3365655-1

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name : Factory I Monthly
Project Location: WHA SIL

Sample Number 2569477-1
Sampled Date Aug 04, 2025 11:50 AM
Sample Description Group 2 Wastewater WW-CT
Contract ID SIL_013_2566 **Plot** 25 **Site** Thai Beverage Can Co.,Ltd.
Date Analysis Commenced Aug 05, 2025
Condition of Sample Contained in one amber glass bottle and three plastic bottles. sample containers comply to pretreatment - preservation standards (APHA/USEPA)
Physical Property Colorless, some odour, solid and no turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2.0	<2.0	≤500	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Bangkok
COD	mg/L	-	25	36	≤750	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Bangkok
pH (on site) *		-	-	8.2	5.5-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Temperature *	Degree C	-	-	33.3	≤45	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	<5	≤200	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

Guideline : Standard of WHA Saraburi Industrial Land, Maximum levels for wastewater discharging to central wastewater treatment plant.
Sampling By : Panupong Saneri ทะเบียนเลขที่ ว-204-ว-0204

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

Technical Management Siriluk P. — Siriluk Bunnak, Section Head, ทะเบียนเลขที่ ว-204-ว-0013
Approved by Kanokkorn Anek, Assistant General Manager, ทะเบียนเลขที่ ว-204-ง-0004

Analysis / Test Report

TESTING No.0009

Lot ID: 2569478
Date Received : Aug 01, 2025
Date Reported : Aug 07, 2025
Report Number : 3365469-1

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name : Factory I Monthly
Project Location: WHA SIL

Sample Number 2569478-1
Sampled Date Aug 01, 2025 10:50 AM
Sample Description Group 2 Wastewater WW-CT
Contract ID SIL_001_2567 **Plot** 138/1 **Site** Thai Inaba Foods (Thailand) Co., Ltd.
Date Analysis Commenced Aug 02, 2025
Condition of Sample Contained in one amber glass bottle and three plastic bottles. sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property Yellow, a lot of odour, some solid and a lot of turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2.0	144	≤500	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Bangkok
COD	mg/L	-	25	284	≤750	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
Oil & Grease	mg/L	-	3	4	≤10	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Bangkok
pH (on site) *		-	-	7.4	5.5-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Temperature *	Degree C	-	-	32.2	≤45	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	51	≤200	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

Guideline : Standard of WHA Saraburi Industrial Land, Maximum levels for wastewater discharging to central wastewater treatment plant.
Sampling By : Panupong Saneri ทะเบียนเลขที่ ว-204-ว-0204

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

Technical Management Suwimon C. — Suwimon Chaisangpet, Scientist (3), ทะเบียนเลขที่ ว-204-ว-0018
Approved by Kanokkorn Anek, Assistant General Manager, ทะเบียนเลขที่ ว-204-ง-0004

Analysis / Test Report

TESTING No.0009

Lot ID: 2569443
Date Received : Aug 01, 2025
Date Reported : Aug 08, 2025
Report Number : 3365480-1

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name : Factory I Monthly
Project Location: WHA SIL

Sample Number 2569443-1
Sampled Date Aug 01, 2025 10:45 AM
Sample Description Group 2 Wastewater WW-CT
Contract ID SIL_056_2556 **Plot** 133 **Site** Thai Inaba Foods (Thailand) Co.,Ltd. (1st)
Date Analysis Commenced Aug 02, 2025
Condition of Sample Contained in one amber glass bottle and three plastic bottles. sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property Yellow, a lot of odour, some solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2.0	369	≤500	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Bangkok
COD	mg/L	-	25	619	≤750	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Bangkok
pH (on site) *		-	-	7.3	5.5-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Temperature *	Degree C	-	-	35.5	≤45	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	33	≤200	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

Guideline : Standard of WHA Saraburi Industrial Land, Maximum levels for wastewater discharging to central wastewater treatment plant.
Sampling By : Panupong Saneri ทะเบียนเลขที่ ว-204-ว-0204

Remark :
- LOD : Limit of Detection
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- Sampling is not included in scope of accreditation ISO/IEC 17025

Technical Management Siriluk P. — Siriluk Bunnak, Section Head, ทะเบียนเลขที่ ว-204-ว-0013
Approved by Kanokkorn Anek, Assistant General Manager, ทะเบียนเลขที่ ว-204-ง-0004

Analysis / Test Report

TESTING No.0009

Lot ID: 2569426
Date Received : Aug 07, 2025
Date Reported : Aug 15, 2025
Report Number : 3365441-1

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name : Factory I Monthly
Project Location: WHA SIL

Sample Number 2569426-1
Sampled Date Aug 07, 2025 9:30 AM
Sample Description Group 2 Wastewater WW-CT
Contract ID SIL_026_2554 **Plot** 37,38 **Site** Thai Malaya Glass (Thailand) Co.,Ltd.
Date Analysis Commenced Aug 08, 2025
Condition of Sample Contained in one amber glass bottle and three plastic bottles. sample containers comply to pretreatment - preservation standards (APHA/USEPA)
Physical Property Yellow, a lot of odour, some solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2.0	53.2	≤500	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Bangkok
COD	mg/L	-	25	146	≤750	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Bangkok
pH (on site) *		-	-	7.8	5.5-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Temperature *	Degree C	-	-	31.0	≤45	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	63	≤200	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

Guideline : Standard of WHA Saraburi Industrial Land, Maximum levels for wastewater discharging to central wastewater treatment plant.
Sampling By : Panupong Saneri ทะเบียนเลขที่ ว-204-ว-0204

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

Technical Management Suwimon C. — Suwimon Chaisangpet, Scientist (3), ทะเบียนเลขที่ ว-204-ว-0018
Approved by Kanokkorn Anek, Assistant General Manager, ทะเบียนเลขที่ ว-204-ง-0004

Analysis / Test Report

TESTING No.0009

Lot ID: 2569458
Date Received : Aug 04, 2025
Date Reported : Aug 11, 2025
Report Number : 3365546-1

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name : Factory I Monthly
Project Location: WHA SIL

Sample Number 2569458-1
Sampled Date Aug 04, 2025 9:40 AM
Sample Description Group 2 Wastewater WW-CT
Contract ID SIL_001_2558 **Plot** 45, 46,143 **Site** Thai Malaya Glass (Thailand) Co.,Ltd.
Date Analysis Commenced Aug 05, 2025
Condition of Sample Contained in one amber glass bottle and three plastic bottles. sample containers comply to pretreatment - preservation standards (APHA/USEPA)
Physical Property Yellow, some odour, solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2.0	5.7	≤500	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Bangkok
COD	mg/L	-	25	98	≤750	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
Oil & Grease	mg/L	-	3	4	≤10	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Bangkok
pH (on site) *		-	-	7.7	5.5-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Temperature *	Degree C	-	-	31.8	≤45	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	30	≤200	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

Guideline : Standard of WHA Saraburi Industrial Land, Maximum levels for wastewater discharging to central wastewater treatment plant.
Sampling By : Panupong Saneri ทะเบียนเลขที่ ว-204-ว-0204

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

Technical Management Siriluk P. — Siriluk Bunnak, Section Head, ทะเบียนเลขที่ ว-204-ว-0013
Approved by Kanokkorn Anek, Assistant General Manager, ทะเบียนเลขที่ ว-204-ง-0004

Analysis / Test Report

TESTING No.0009

Lot ID: 2569510
Date Received : Aug 01, 2025
Date Reported : Aug 08, 2025
Report Number : 3365787-1

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name : Factory I Monthly
Project Location: WHA SIL

Sample Number 2569510-1
Sampled Date Aug 01, 2025 10:00 AM
Sample Description Group 2 Wastewater WW-CT
Contract ID SIL_054_2554 **Plot** 7, 141 **Site** Thai Rayon Public Limited Company
Date Analysis Commenced Aug 02, 2025
Condition of Sample Contained in three plastic bottles and one amber glass bottle, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property Yellow, some odour, solid and a lot of turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2.0	28.2	≤500	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Bangkok
COD	mg/L	-	25	128	≤750	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
Oil & Grease *	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5520 D	Bangkok
pH (on site) *		-	-	7.0	5.5-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Sulfide *	mg/L	-	0.5	0.6	≤1	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500-S2 (C, F)	Bangkok
Temperature *	Degree C	-	-	33.7	≤45	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	<5	≤200	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

Guideline : Standard of WHA Saraburi Industrial Land, Maximum levels for wastewater discharging to central wastewater treatment plant.
Sampling By : Panupong Saneri ทะเบียนเลขที่ ว-204-ว-0204

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

Technical Management Suwimon C. — Suwimon Chaisangpet, Scientist (3), ทะเบียนเลขที่ ว-204-ว-0018
Approved by Kanokkorn Anek, Assistant General Manager, ทะเบียนเลขที่ ว-204-ง-0004

Analysis / Test Report

TESTING No.0009

Lot ID: 2569510
Date Received : Aug 01, 2025
Date Reported : Aug 08, 2025
Report Number : 3365787-1

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name : Factory I Monthly
Project Location: WHA SIL

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

Technical Management Suwimon C. — Suwimon Chaisangpet, Scientist (3), ทะเบียนเลขที่ ว-204-ว-0018
Approved by Kanokkorn Anek, Assistant General Manager, ทะเบียนเลขที่ ว-204-ง-0004

Analysis / Test Report

TESTING No.0009

Lot ID: 2569465
Date Received : Aug 01, 2025
Date Reported : Aug 08, 2025
Report Number : 3365587-1

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name : Factory I Monthly
Project Location: WHA SIL

Sample Number 2569465-1
Sampled Date Aug 01, 2025 10:10 AM
Sample Description Group 2 Wastewater WW-CT
Contract ID SIL_009_2560 **Plot** 70,71,73 **Site** The Siam Cement (Thaluang) Co.,Ltd.
Date Analysis Commenced Aug 02, 2025
Condition of Sample Contained in one amber glass bottle and three plastic bottles. sample containers comply to pretreatment - preservation standards (APHA/USEPA)
Physical Property Yellow, some odour, solid and no turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2.0	9.8	≤500	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Bangkok
COD	mg/L	-	25	54	≤750	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Bangkok
pH (on site) *		-	-	7.9	5.5-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Temperature *	Degree C	-	-	32.0	≤45	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	11	≤200	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

Guideline : Standard of WHA Saraburi Industrial Land, Maximum levels for wastewater discharging to central wastewater treatment plant.
Sampling By : Chawanthat Nakpanom ทะเบียนเลขที่ ว-204-ว-0087

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

Technical Management Siriluk P. — Siriluk Bunnak, Section Head, ทะเบียนเลขที่ ว-204-ว-0013
Approved by Kanokkorn Anek, Assistant General Manager, ทะเบียนเลขที่ ว-204-ง-0004

Analysis / Test Report

TESTING No.0009

Lot ID: 2569425
Date Received : Aug 01, 2025
Date Reported : Aug 08, 2025
Report Number : 3369440-1

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name : Factory I Monthly
Project Location: WHA SIL

Page 1 of 1

Sample Number	2569425-1
Sampled Date	Aug 01, 2025 9:30 AM
Sample Description	Group 2 Wastewater WW-CT
Contract ID	SIL_027_2554 **Plot** 33,60 **Site** Tiement (Thailand) Corp.,Ltd.
Date Analysis Commenced	Aug 02, 2025
Condition of Sample	Contained in one amber glass bottle and three plastic bottles. sample containers comply to pretreatment - preservation standards (APHA/USEPA)
Physical Property	Yellow, a lot of odour, solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2.0	20.0	≤500	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Bangkok
COD	mg/L	-	25	108	≤750	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
Oil & Grease	mg/L	-	3	4	≤10	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Bangkok
pH (on site) *		-	-	7.8	5.5-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Temperature *	Degree C	-	-	30.7	≤45	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	98	≤200	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

Guideline : Standard of WHA Saraburi Industrial Land, Maximum levels for wastewater discharging to central wastewater treatment plant.
Sampling By : Chawanthat Nakpanom ทะเบียนเลขที่ ว-204-ว-0087

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

Technical Management Suwimon C. — Suwimon Charuangwut, Scientist (3), ทะเบียนเลขที่ ว-204-ว-0018
Approved by Kanokkorn Anek, Assistant General Manager, ทะเบียนเลขที่ ว-204-ค-0004

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Analysis / Test Report

TESTING No.0009

Lot ID: 2569445
Date Received : Aug 01, 2025
Date Reported : Aug 08, 2025
Report Number : 3369482-1

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name : Factory I Monthly
Project Location: WHA SIL

Page 1 of 1

Sample Number	2569445-1
Sampled Date	Aug 01, 2025 10:20 AM
Sample Description	Group 2 Wastewater WW-CT
Contract ID	SIL_061_2556 **Plot** 147 **Site** TS Tech (Thailand) Co.,Ltd.
Date Analysis Commenced	Aug 02, 2025
Condition of Sample	Contained in one amber glass bottle and three plastic bottles. sample containers comply to pretreatment - preservation standards (APHA/USEPA)
Physical Property	Yellow, some odour, a lot of solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2.0	58.8	≤500	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Bangkok
COD	mg/L	-	25	155	≤750	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
Oil & Grease	mg/L	-	3	4	≤10	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Bangkok
pH (on site) *		-	-	7.8	5.5-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Temperature *	Degree C	-	-	31.2	≤45	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	56	≤200	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

Guideline : Standard of WHA Saraburi Industrial Land, Maximum levels for wastewater discharging to central wastewater treatment plant.
Sampling By : Teerawat Puangsuk ทะเบียนเลขที่ ว-204-ว-0058

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

Technical Management Siriluk P. — Siriluk Bunnak, Section Head, ทะเบียนเลขที่ ว-204-ว-0013
Approved by Kanokkorn Anek, Assistant General Manager, ทะเบียนเลขที่ ว-204-ค-0004

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Analysis / Test Report

TESTING No.0009

Lot ID: 2569414
Date Received : Aug 07, 2025
Date Reported : Aug 15, 2025
Report Number : 3369411-1

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name : Factory I Monthly
Project Location: WHA SIL

Page 1 of 1

Sample Number	2569414-1
Sampled Date	Aug 07, 2025 10:50 AM
Sample Description	Group 2 Wastewater WW-CT
Contract ID	SIL_012_2554 **Plot** 4,32 **Site** Villeroy & Boch (Thailand) Co.,Ltd.
Date Analysis Commenced	Aug 08, 2025
Condition of Sample	Contained in one amber glass bottle and three plastic bottles. sample containers comply to pretreatment - preservation standards (APHA/USEPA)
Physical Property	Yellow, some odour, solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2.0	19.6	≤500	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Bangkok
COD	mg/L	-	25	117	≤750	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Bangkok
pH (on site) *		-	-	7.3	5.5-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Temperature *	Degree C	-	-	32.7	≤45	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	31	≤200	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

Guideline : Standard of WHA Saraburi Industrial Land, Maximum levels for wastewater discharging to central wastewater treatment plant.
Sampling By : Panupong Saneri ทะเบียนเลขที่ ว-204-ว-0204

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

Technical Management Suwimon C. — Suwimon Charuangwut, Scientist (3), ทะเบียนเลขที่ ว-204-ว-0018
Approved by Kanokkorn Anek, Assistant General Manager, ทะเบียนเลขที่ ว-204-ค-0004

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Analysis / Test Report

TESTING No.0009

Lot ID: 2569448
Date Received : Aug 01, 2025
Date Reported : Aug 08, 2025
Report Number : 3369501-1

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name : Factory I Monthly
Project Location: WHA SIL

Page 1 of 1

Sample Number	2569448-1
Sampled Date	Aug 01, 2025 11:20 AM
Sample Description	Group 2 Wastewater WW-CT
Contract ID	SIL_075_2557 **Plot** 93A/1 **Site** WHA Corporation Public Limited Company
Date Analysis Commenced	Aug 02, 2025
Condition of Sample	Contained in one amber glass bottle and three plastic bottles. sample containers comply to pretreatment - preservation standards (APHA/USEPA)
Physical Property	Yellow, some odour, solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2.0	70.6	≤500	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Bangkok
COD	mg/L	-	25	163	≤750	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
Oil & Grease	mg/L	-	3	5	≤10	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Bangkok
pH (on site) *		-	-	7.8	5.5-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Temperature *	Degree C	-	-	31.6	≤45	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	39	≤200	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

Guideline : Standard of WHA Saraburi Industrial Land, Maximum levels for wastewater discharging to central wastewater treatment plant.
Sampling By : Teerawat Puangsuk ทะเบียนเลขที่ ว-204-ว-0058

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

Technical Management Siriluk P. — Siriluk Bunnak, Section Head, ทะเบียนเลขที่ ว-204-ว-0013
Approved by Kanokkorn Anek, Assistant General Manager, ทะเบียนเลขที่ ว-204-ค-0004

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Analysis / Test Report

TESTING No.0009

Lot ID: 2569450
Date Received : Aug 01, 2025
Date Reported : Aug 08, 2025
Report Number : 3369515-1

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name : Factory I Monthly
Project Location: WHA SIL

Page 1 of 1

Sample Number	2569450-1
Sampled Date	Aug 01, 2025 10:40 AM
Sample Description	Group 2 Wastewater WW-CT
Contract ID	SIL_037_2556 **Plot** 151-152 **Site** WHA Corporation Public Limited Company
Date Analysis Commenced	Aug 02, 2025
Condition of Sample	Contained in one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property	Yellow, some odour, solid and no turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2.0	<2.0	≤500	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Bangkok
COD	mg/L	-	25	<25	≤750	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Bangkok
pH (on site) *		-	-	7.1	5.5-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Temperature *	Degree C	-	-	35.1	≤45	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	<5	≤200	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

Guideline : Standard of WHA Saraburi Industrial Land, Maximum levels for wastewater discharging to central wastewater treatment plant.
Sampling By : Chawanthat Nakpanom ทะเบียนเลขที่ ว-204-ว-0087

Remark :
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Technical Management Siriluk P. — Siriluk Bunnak, Section Head, ทะเบียนเลขที่ ว-204-ว-0013
Approved by Kanokkorn Anek, Assistant General Manager, ทะเบียนเลขที่ ว-204-ค-0004

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Analysis / Test Report

TESTING No.0009

Lot ID: 2569430
Date Received : Aug 01, 2025
Date Reported : Aug 08, 2025
Report Number : 3369446-1

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name : Factory I Monthly
Project Location: WHA SIL

Page 1 of 1

Sample Number	2569430-1
Sampled Date	Aug 01, 2025 10:35 AM
Sample Description	Group 2 Wastewater WW-CT
Contract ID	SIL_074_2557 **Plot** 153-154 **Site** WHA Corporation Public Limited Company
Date Analysis Commenced	Aug 02, 2025
Condition of Sample	Contained in one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property	Yellow, a lot of odour, solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2.0	76.8	≤500	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Bangkok
COD	mg/L	-	25	188	≤750	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Bangkok
pH (on site) *		-	-	8.0	5.5-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Temperature *	Degree C	-	-	33.0	≤45	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	81	≤200	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

Guideline : Standard of WHA Saraburi Industrial Land, Maximum levels for wastewater discharging to central wastewater treatment plant.
Sampling By : Chawanthat Nakpanom ทะเบียนเลขที่ ว-204-ว-0087

Remark :
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Technical Management Suwimon C. — Suwimon Charuangwut, Scientist (3), ทะเบียนเลขที่ ว-204-ว-0018
Approved by Kanokkorn Anek, Assistant General Manager, ทะเบียนเลขที่ ว-204-ค-0004

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Analysis / Test Report

TESTING No.0009

Lot ID: 2569431
Date Received : Aug 01, 2025
Date Reported : Aug 08, 2025
Report Number : 3369447-1

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name : Factory I Monthly
Project Location: WHA SIL

Page 1 of 1

Sample Number	2569431-1
Sampled Date	Aug 01, 2025 10:30 AM
Sample Description	Group 2 Wastewater WW-CT
Contract ID	SIL_069_2557 **Plot** 27(F) **Site** World Quality Co.,Ltd.
Location	Point 1
Date Analysis Commenced	Aug 02, 2025
Condition of Sample	Contained in three plastic bottles and one amber glass bottle, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property	Yellow, a lot of odour, solid and some turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2.0	7.6	≤500	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Bangkok
COD	mg/L	-	25	56	≤750	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Bangkok
pH (on site) *		-	-	7.7	5.5-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Temperature *	Degree C	-	-	31.2	≤45	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	32	≤200	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

Guideline : Standard of WHA Saraburi Industrial Land, Maximum levels for wastewater discharging to central wastewater treatment plant.
Sampling By : Panupong Saneri ทะเบียนเลขที่ ว-204-ว-0204

Remark :
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- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
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Technical Management Suwimon C. — Suwimon Charuangwut, Scientist (3), ทะเบียนเลขที่ ว-204-ว-0018
Approved by Kanokkorn Anek, Assistant General Manager, ทะเบียนเลขที่ ว-204-ค-0004

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Analysis / Test Report

TESTING No.0009

Lot ID: 2579558
Date Received : Sep 09, 2025
Date Reported : Sep 16, 2025
Report Number : 3389306-1

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name : Factory I Monthly
Project Location: WHA SIL

Page 1 of 1

Sample Number	2579558-1
Sampled Date	Sep 09, 2025 9:40 AM
Sample Description	Group 2 Wastewater WW-CT
Contract ID	SIL_001_2554 **Plot** 1 **Site** Air Liquide (Thailand) Co.,Ltd.
Date Analysis Commenced	Sep 10, 2025
Condition of Sample	Contained in three plastic bottles and one amber glass bottle, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property	Yellow, some odour, solid and no turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2.0	6.2	≤500	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Bangkok
COD	mg/L	-	25	34	≤750	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Bangkok
pH (on site) *		-	-	8.2	5.5-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Temperature *	Degree C	-	-	31.3	≤45	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	6	≤200	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

Guideline : Standard of WHA Saraburi Industrial Land, Maximum levels for wastewater discharging to central wastewater treatment plant.
Sampling By : Panupong Saneri ทะเบียนเลขที่ ว-204-ว-0204

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

Technical Management Siriluk P. — Siriluk Bunnak, Section Head, ทะเบียนเลขที่ ว-204-ว-0013
Approved by Kanokkorn Anek, Assistant General Manager, ทะเบียนเลขที่ ว-204-ค-0004

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

Lot ID: 2579591
Date Received : Sep 04, 2025
Date Reported : Sep 11, 2025
Report Number : 3389438-1

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name : Factory I Monthly
Project Location: WHA SIL

Page 1 of 1

Sample Number	2579591-1
Sampled Date	Sep 04, 2025 10:50 AM
Sample Description	Group 2 Wastewater WW-CT
Contract ID	SIL_043_2556 **Plot** 93D **Site** Daiyu Seat (Thailand) Co.,Ltd.
Date Analysis Commenced	Sep 04, 2025
Condition of Sample	Contained in one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property	Yellow, some odour, a lot of solid and some turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2.0	13.2	≤500	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Bangkok
COD	mg/L	-	25	108	≤750	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
Oil & Grease	mg/L	-	3	3	≤10	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Bangkok
pH (on site) *		-	-	7.8	5.5-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Temperature *	Degree C	-	-	29.6	≤45	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	88	≤200	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

Guideline : Standard of WHA Saraburi Industrial Land, Maximum levels for wastewater discharging to central wastewater treatment plant.
Sampling By : Panupong Saneri ทะเบียนเลขที่ ว-204-ว-0204

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

Technical Management Narin Saweng, Supervisor, ทะเบียนเลขที่ ว-204-ว-0009
Approved by Kanokkorn Anek, Assistant General Manager, ทะเบียนเลขที่ ว-204-ค-0004

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

Lot ID: 2579618
Date Received : Sep 02, 2025
Date Reported : Sep 09, 2025
Report Number : 3389469-1

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name : Factory I Monthly
Project Location: WHA SIL

Page 1 of 1

Sample Number 2579618-1
Sampled Date Sep 02, 2025 11:15 AM
Sample Description Group 2 Wastewater WW-CT
Contract ID SIL_004_2560 **Plot** 48,84 **Site** D-HAPPENNING COMPANY LIMITED
Date Analysis Commenced Sep 03, 2025
Condition of Sample Contained in three plastic bottles and one amber glass bottle, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property Yellow, some odour, solid and no turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2.0	<2.0	≤500	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Bangkok
COD	mg/L	-	25	<25	≤750	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Bangkok
pH (on site) *		-	-	8.1	5.5-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Temperature *	Degree C	-	-	28.7	≤45	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	5	≤200	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

Guideline : Standard of WHA Saraburi Industrial Land, Maximum levels for wastewater discharging to central wastewater treatment plant.
Sampling By : Panupong Sanei ทะเบียนเลขที่ ว-204-ว-0204

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

Technical Management Suwimon C. — Suwimon Chaivangwut, Scientist (3), ทะเบียนเลขที่ ว-204-ว-0018
Approved by Kanokkorn Anek, Assistant General Manager, ทะเบียนเลขที่ ว-204-ล-0004

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Analysis / Test Report

TESTING No.0009

Lot ID: 2579560
Date Received : Sep 01, 2025
Date Reported : Sep 08, 2025
Report Number : 3389382-1

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name : Factory I Monthly
Project Location: WHA SIL

Page 1 of 1

Sample Number 2579560-1
Sampled Date Sep 01, 2025 11:40 AM
Sample Description Group 2 Wastewater WW-CT
Contract ID SIL_003_2554 **Plot** 54 **Site** D-Rubber Products Co.,Ltd.
Date Analysis Commenced Sep 02, 2025
Condition of Sample Contained in one amber glass bottle and three plastic bottles. sample containers comply to pretreatment - preservation standards (APHA/USEPA)
Physical Property White, a lot of odour, solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2.0	207	≤500	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Bangkok
COD	mg/L	-	25	597	≤750	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Bangkok
pH (on site) *		-	-	7.0	5.5-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Temperature *	Degree C	-	-	35.5	≤45	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	42	≤200	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

Guideline : Standard of WHA Saraburi Industrial Land, Maximum levels for wastewater discharging to central wastewater treatment plant.
Sampling By : Chainarong Sriborin ทะเบียนเลขที่ ว-204-ว-0149

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Technical Management Siriluk P. — Siriluk Bunnak, Section Head, ทะเบียนเลขที่ ว-204-ว-0013
Approved by Kanokkorn Anek, Assistant General Manager, ทะเบียนเลขที่ ว-204-ล-0004

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Analysis / Test Report

TESTING No.0009

Lot ID: 2579561
Date Received : Sep 11, 2025
Date Reported : Sep 17, 2025
Report Number : 3389385-1

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name : Factory I Monthly
Project Location: WHA SIL

Page 1 of 1

Sample Number 2579561-1
Sampled Date Sep 11, 2025 10:30 AM
Sample Description Group 2 Wastewater WW-CT
Contract ID SIL_004_2554 **Plot** 39 **Site** DSG International (Thailand) PLC.
Date Analysis Commenced Sep 11, 2025
Condition of Sample Contained in one amber glass bottle and three plastic bottles. sample containers comply to pretreatment - preservation standards (APHA/USEPA)
Physical Property Yellow, some odour, solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2.0	17.1	≤500	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Bangkok
COD	mg/L	-	25	58	≤750	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Bangkok
pH (on site) *		-	-	7.6	5.5-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Temperature *	Degree C	-	-	31.4	≤45	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	8	≤200	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

Guideline : Standard of WHA Saraburi Industrial Land, Maximum levels for wastewater discharging to central wastewater treatment plant.
Sampling By : Panupong Sanei ทะเบียนเลขที่ ว-204-ว-0204

Remark :
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Technical Management Narin Saiseng, Supervisor, ทะเบียนเลขที่ ว-204-ว-0009
Approved by Kanokkorn Anek, Assistant General Manager, ทะเบียนเลขที่ ว-204-ล-0004

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Analysis / Test Report

TESTING No.0009

Lot ID: 2579583
Date Received : Sep 11, 2025
Date Reported : Sep 17, 2025
Report Number : 3389425-1

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name : Factory I Monthly
Project Location: WHA SIL

Page 1 of 1

Sample Number 2579583-1
Sampled Date Sep 11, 2025 9:20 AM
Sample Description Group 2 Wastewater WW-CT
Contract ID SIL_031_2555 **Plot** 148 **Site** FTN (Saraburi) Co.,Ltd
Date Analysis Commenced Sep 11, 2025
Condition of Sample Contained in one amber glass bottle and three plastic bottles. sample containers comply to pretreatment - preservation standards (APHA/USEPA)
Physical Property Yellow, some odour, solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2.0	6.7	≤500	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Bangkok
COD	mg/L	-	25	41	≤750	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Bangkok
pH (on site) *		-	-	7.3	5.5-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Temperature *	Degree C	-	-	28.7	≤45	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	14	≤200	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

Guideline : Standard of WHA Saraburi Industrial Land, Maximum levels for wastewater discharging to central wastewater treatment plant.
Sampling By : Panupong Sanei ทะเบียนเลขที่ ว-204-ว-0204

Remark :
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Technical Management Narin Saiseng, Supervisor, ทะเบียนเลขที่ ว-204-ว-0009
Approved by Kanokkorn Anek, Assistant General Manager, ทะเบียนเลขที่ ว-204-ล-0004

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Analysis / Test Report

TESTING No.0009

Lot ID: 2579562
Date Received : Sep 11, 2025
Date Reported : Sep 17, 2025
Report Number : 3389388-1

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name : Factory I Monthly
Project Location: WHA SIL

Page 1 of 1

Sample Number 2579562-1
Sampled Date Sep 11, 2025 8:45 AM
Sample Description Group 2 Wastewater WW-CT
Contract ID SIL_005_2554 **Plot** 77,78 **Site** Fujikoki Corporation
Date Analysis Commenced Sep 11, 2025
Condition of Sample Contained in one amber glass bottle and three plastic bottles. sample containers comply to pretreatment - preservation standards (APHA/USEPA)
Physical Property Yellow, some odour, solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2.0	19.8	≤500	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Bangkok
COD	mg/L	-	25	107	≤750	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
Oil & Grease	mg/L	-	3	4	≤10	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Bangkok
pH (on site) *		-	-	8.3	5.5-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Temperature *	Degree C	-	-	28.2	≤45	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	36	≤200	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

Guideline : Standard of WHA Saraburi Industrial Land, Maximum levels for wastewater discharging to central wastewater treatment plant.
Sampling By : Panupong Sanei ทะเบียนเลขที่ ว-204-ว-0204

Remark :
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Technical Management Narin Saiseng, Supervisor, ทะเบียนเลขที่ ว-204-ว-0009
Approved by Kanokkorn Anek, Assistant General Manager, ทะเบียนเลขที่ ว-204-ล-0004

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Analysis / Test Report

TESTING No.0009

Lot ID: 2579563
Date Received : Sep 09, 2025
Date Reported : Sep 16, 2025
Report Number : 3389391-1

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name : Factory I Monthly
Project Location: WHA SIL

Page 1 of 1

Sample Number 2579563-1
Sampled Date Sep 09, 2025 9:20 AM
Sample Description Group 2 Wastewater WW-CT
Contract ID SIL_006_2554 **Plot** 2 **Site** Guardian Industries Corp Ltd.
Location Point 1
Date Analysis Commenced Sep 10, 2025
Condition of Sample Contained in three plastic bottles and one amber glass bottle, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property Yellow, some odour, solid and no turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2.0	<2.0	≤500	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Bangkok
COD	mg/L	-	25	35	≤750	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Bangkok
pH (on site) *		-	-	7.6	5.5-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Temperature *	Degree C	-	-	35.8	≤45	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	10	≤200	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

Guideline : Standard of WHA Saraburi Industrial Land, Maximum levels for wastewater discharging to central wastewater treatment plant.
Sampling By : Panupong Sanei ทะเบียนเลขที่ ว-204-ว-0204

Remark :
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Technical Management Tanyaporn Pongkonphawut, Supervisor, ทะเบียนเลขที่ ว-204-ว-0012
Approved by Kanokkorn Anek, Assistant General Manager, ทะเบียนเลขที่ ว-204-ล-0004

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Analysis / Test Report

TESTING No.0009

Lot ID: 2579564
Date Received : Sep 09, 2025
Date Reported : Sep 16, 2025
Report Number : 3389394-1

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name : Factory I Monthly
Project Location: WHA SIL

Page 1 of 1

Sample Number 2579564-1
Sampled Date Sep 09, 2025 9:25 AM
Sample Description Group 2 Wastewater WW-CT
Contract ID SIL_007_2554 **Plot** 2 **Site** Guardian Industries Corp Ltd.
Location Point 2
Date Analysis Commenced Sep 10, 2025
Condition of Sample Contained in three plastic bottles and one amber glass bottle, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property Yellow, some odour, solid and no turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2.0	4.8	≤500	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Bangkok
COD	mg/L	-	25	32	≤750	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Bangkok
pH (on site) *		-	-	7.7	5.5-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Temperature *	Degree C	-	-	30.6	≤45	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	10	≤200	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

Guideline : Standard of WHA Saraburi Industrial Land, Maximum levels for wastewater discharging to central wastewater treatment plant.
Sampling By : Panupong Sanei ทะเบียนเลขที่ ว-204-ว-0204

Remark :
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Technical Management Siriluk P. — Siriluk Bunnak, Section Head, ทะเบียนเลขที่ ว-204-ว-0013
Approved by Kanokkorn Anek, Assistant General Manager, ทะเบียนเลขที่ ว-204-ล-0004

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Analysis / Test Report

TESTING No.0009

Lot ID: 2579565
Date Received : Sep 09, 2025
Date Reported : Sep 16, 2025
Report Number : 3389398-1

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name : Factory I Monthly
Project Location: WHA SIL

Page 1 of 1

Sample Number 2579565-1
Sampled Date Sep 09, 2025 9:15 AM
Sample Description Group 2 Wastewater WW-CT
Contract ID SIL_008_2554 **Plot** 2 **Site** Guardian Industries Corp Ltd.
Location Point 3
Date Analysis Commenced Sep 10, 2025
Condition of Sample Contained in three plastic bottles and one amber glass bottle, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property Yellow, some odour, solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2.0	9.3	≤500	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Bangkok
COD	mg/L	-	25	49	≤750	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Bangkok
pH (on site) *		-	-	7.6	5.5-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Temperature *	Degree C	-	-	30.0	≤45	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	28	≤200	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

Guideline : Standard of WHA Saraburi Industrial Land, Maximum levels for wastewater discharging to central wastewater treatment plant.
Sampling By : Panupong Sanei ทะเบียนเลขที่ ว-204-ว-0204

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

Technical Management Siriluk P. — Siriluk Bunnak, Section Head, ทะเบียนเลขที่ ว-204-ว-0013
Approved by Kanokkorn Anek, Assistant General Manager, ทะเบียนเลขที่ ว-204-ล-0004

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Analysis / Test Report

TESTING No.0009

Lot ID: 2579661
Date Received : Sep 04, 2025
Date Reported : Sep 11, 2025
Report Number : 3389513-1

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name : Factory I Monthly
Project Location: WHA SIL

Page 1 of 1

Sample Number 2579661-1
Sampled Date Sep 04, 2025 10:00 AM
Sample Description Group 2 Wastewater WW-CT
Contract ID SIL_072_2557 **Plot** 88 **Site** Gulf JP NKI Co.,Ltd.
Date Analysis Commenced Sep 04, 2025
Condition of Sample Contained in one amber glass bottle and four plastic bottles. sample containers comply to pretreatment - preservation standards (APHA/USEPA)
Physical Property Yellow, some odour, solid and no turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Hexavalent Chromium	mg/L	0.003	0.01	Not Detected	≤0.25	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3500-Cr B	Bangkok
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2.0	3.0	≤500	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Bangkok
COD	mg/L	-	25	33	≤750	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Bangkok
pH (on site) *		-	-	7.9	5.5-9.0	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	≤45	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	1508	≤3000	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Bangkok

Technical Management Sawitree N. — Sawitree Noknngam, Manager, ทะเบียนเลขที่ ว-204-ว-0007
Approved by Kanokkorn Anek, Assistant General Manager, ทะเบียนเลขที่ ว-204-ล-0004

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Analysis / Test Report

TESTING No.0009

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name : Factory l Monthly
Project Location: WHA SIL

Lot ID: 2579661
Date Received : Sep 04, 2025
Date Reported : Sep 11, 2025
Report Number : 3389513-1

Sample Number	2579661-1
Sampled Date	Sep 04, 2025 10:00 AM
Sample Description	Group 2 Wastewater WW-CT
Contract ID	SIL_072_2557 **Plot** 86 **Site** Gulf JP NK2 Co.,Ltd.
Date Analysis Commenced	Sep 04, 2025
Condition of Sample	Contained in one amber glass bottle and four plastic bottles sample containers comply to pretreatment - preservation standards (APHA/USEPA)
Physical Property	Yellow, some odour, solid and no turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	51	≤200	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

Guideline : Standard of WHA Saraburi Industrial Land, Maximum levels for wastewater discharging to central wastewater treatment plant.
Sampling By : Panupong Saneri [illegible] ว-204-ว-0204

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

Technical Management: Sawitree N. — Sawitree Nokangam, Manager, [illegible] ว-204-ว-0007
Approved by: Kanokkorn Anek — Kanokkorn Anek, Assistant General Manager, [illegible] ว-204-ล-0004

Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name : Factory l Monthly
Project Location: WHA SIL

Lot ID: 2579661
Date Received : Sep 04, 2025
Date Reported : Sep 11, 2025
Report Number : 3389513-2

Sample Number	2579661-1
Sampled Date	Sep 04, 2025 10:00 AM
Sample Description	Group 2 Wastewater WW-CT
Contract ID	SIL_072_2557 **Plot** 88 **Site** Gulf JP NK2 Co.,Ltd.
Date Analysis Commenced	Sep 05, 2025
Condition of Sample	Contained in one amber glass bottle and four plastic bottles sample containers comply to pretreatment - preservation standards (APHA/USEPA)
Physical Property	Yellow, some odour, solid and no turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Conductivity at 25 degree C	micromhos/cm	-	0.5	2319	No Standard	Based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2510 B	Bangkok

Guideline : Standard of WHA Saraburi Industrial Land, Maximum levels for wastewater discharging to central wastewater treatment plant.
Sampling By : Panupong Saneri

Remark :
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- "<" : 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: Narin Saiseng — Narin Saiseng, Supervisor

Analysis / Test Report

TESTING No.0009

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name : Factory l Monthly
Project Location: WHA SIL

Lot ID: 2579669
Date Received : Sep 09, 2025
Date Reported : Sep 16, 2025
Report Number : 3389521-1

Sample Number	2579669-1
Sampled Date	Sep 09, 2025 9:00 AM
Sample Description	Group 2 Wastewater WW-CT
Contract ID	SIL_004_2562 **Plot** 131 **Site** Gulf NPM Co.,Ltd.
Date Analysis Commenced	Sep 10, 2025
Condition of Sample	Contained in three plastic bottles and one amber glass bottle, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property	Yellow, some odour, solid and no turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2.0	<2.0	≤500	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Bangkok
COD	mg/L	-	25	81	≤750	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Bangkok
pH (on site) *		-	-	7.9	5.5-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Temperature *	Degree C	-	-	27.5	≤45	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	2236	≤3000	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	7	≤200	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

Guideline : Standard of WHA Saraburi Industrial Land, Maximum levels for wastewater discharging to central wastewater treatment plant.
Sampling By : Panupong Saneri [illegible] ว-204-ว-0204

Remark :
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Technical Management: Siriluk P. — Siriluk Bunnak, Section Head, [illegible] ว-204-ว-0013
Approved by: Kanokkorn Anek — Kanokkorn Anek, Assistant General Manager, [illegible] ว-204-ล-0004

Analysis / Test Report

TESTING No.0009

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name : Factory l Monthly
Project Location: WHA SIL

Lot ID: 2579669
Date Received : Sep 09, 2025
Date Reported : Sep 16, 2025
Report Number : 3389521-1

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

Technical Management: Siriluk P. — Siriluk Bunnak, Section Head, [illegible] ว-204-ว-0013
Approved by: Kanokkorn Anek — Kanokkorn Anek, Assistant General Manager, [illegible] ว-204-ล-0004

Analysis / Test Report

TESTING No.0009

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name : Factory l Monthly
Project Location: WHA SIL

Lot ID: 2579657
Date Received : Sep 11, 2025
Date Reported : Sep 18, 2025
Report Number : 3389500-1

Sample Number	2579657-1
Sampled Date	Sep 11, 2025 10:40 AM
Sample Description	Group 2 Wastewater WW-CT
Contract ID	SIL_009_2566 **Plot** 57 **Site** HOWA PACKAGING (THAILAND) CO., LTD.
Date Analysis Commenced	Sep 12, 2025
Condition of Sample	Contained in one amber glass bottle and three plastic bottles. sample containers comply to pretreatment - preservation standards (APHA/USEPA)
Physical Property	Yellow, some odour, solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2.0	4.1	≤500	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Bangkok
COD	mg/L	-	25	48	≤750	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Bangkok
pH (on site) *		-	-	7.6	5.5-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Temperature *	Degree C	-	-	24.8	≤45	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	20	≤200	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

Guideline : Standard of WHA Saraburi Industrial Land, Maximum levels for wastewater discharging to central wastewater treatment plant.
Sampling By : Panupong Saneri [illegible] ว-204-ว-0204

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

Technical Management: Suwimon C. — Suwimon Chairangsrit, Scientist (3), [illegible] ว-204-ว-0018
Approved by: Kanokkorn Anek — Kanokkorn Anek, Assistant General Manager, [illegible] ว-204-ล-0004

Analysis / Test Report

TESTING No.0009

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name : Factory l Monthly
Project Location: WHA SIL

Lot ID: 2579667
Date Received : Sep 03, 2025
Date Reported : Sep 10, 2025
Report Number : 3389519-1

Sample Number	2579667-1
Sampled Date	Sep 03, 2025 11:00 AM
Sample Description	Group 2 Wastewater WW-CT
Contract ID	SIL_032_2556 **Plot** 149 **Site** Hygenix (Thailand) Co.,Ltd. (1st)
Date Analysis Commenced	Sep 04, 2025
Condition of Sample	Contained in one amber glass bottle and three plastic bottles. sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property	Colorless, some odour, solid and no turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2.0	<2.0	≤500	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Bangkok
COD	mg/L	-	25	<25	≤750	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Bangkok
pH (on site) *		-	-	8.8	5.5-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Temperature *	Degree C	-	-	34.4	≤45	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	624	≤3000	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	<5	≤200	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

Guideline : Standard of WHA Saraburi Industrial Land, Maximum levels for wastewater discharging to central wastewater treatment plant.
Sampling By : Panupong Saneri [illegible] ว-204-ว-0204

Remark :
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Technical Management: Suwimon C. — Suwimon Chairangsrit, Scientist (3), [illegible] ว-204-ว-0018
Approved by: Kanokkorn Anek — Kanokkorn Anek, Assistant General Manager, [illegible] ว-204-ล-0004

Analysis / Test Report

TESTING No.0009

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name : Factory l Monthly
Project Location: WHA SIL

Lot ID: 2579667
Date Received : Sep 03, 2025
Date Reported : Sep 10, 2025
Report Number : 3389519-1

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

Technical Management: Suwimon C. — Suwimon Chairangsrit, Scientist (3), [illegible] ว-204-ว-0018
Approved by: Kanokkorn Anek — Kanokkorn Anek, Assistant General Manager, [illegible] ว-204-ล-0004

Analysis / Test Report

TESTING No.0009

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name : Factory l Monthly
Project Location: WHA SIL

Lot ID: 2579668
Date Received : Sep 11, 2025
Date Reported : Sep 18, 2025
Report Number : 3389520-1

Sample Number	2579668-1
Sampled Date	Sep 11, 2025 10:20 AM
Sample Description	Group 2 Wastewater WW-CT
Contract ID	SIL_032_2556 **Plot** 149 **Site** Hygenix (Thailand) Co.,Ltd. (2nd)
Date Analysis Commenced	Sep 12, 2025
Condition of Sample	Contained in one amber glass bottle and three plastic bottles. sample containers comply to pretreatment - preservation standards (APHA/USEPA)
Physical Property	Colorless, some odour, solid and no turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2.0	<2.0	≤500	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Bangkok
COD	mg/L	-	25	<25	≤750	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Bangkok
pH (on site) *		-	-	8.9	5.5-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Temperature *	Degree C	-	-	32.1	≤45	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	1180	≤3000	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	10	≤200	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

Guideline : Standard of WHA Saraburi Industrial Land, Maximum levels for wastewater discharging to central wastewater treatment plant.
Sampling By : Panupong Saneri [illegible] ว-204-ว-0204

Remark :
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- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
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Technical Management: Suwimon C. — Suwimon Chairangsrit, Scientist (3), [illegible] ว-204-ว-0018
Approved by: Kanokkorn Anek — Kanokkorn Anek, Assistant General Manager, [illegible] ว-204-ล-0004

Analysis / Test Report

TESTING No.0009

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name : Factory l Monthly
Project Location: WHA SIL

Lot ID: 2579668
Date Received : Sep 11, 2025
Date Reported : Sep 18, 2025
Report Number : 3389520-1

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

Technical Management: Suwimon C. — Suwimon Chairangsrit, Scientist (3), [illegible] ว-204-ว-0018
Approved by: Kanokkorn Anek — Kanokkorn Anek, Assistant General Manager, [illegible] ว-204-ล-0004

Analysis / Test Report

TESTING No.0009

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name : Factory I Monthly
Project Location: WHA SIL

Lot ID: 2579590
Date Received : Sep 10, 2025
Date Reported : Sep 17, 2025
Report Number : 3389436-1

Sample Number	2579590-1
Sampled Date	Sep 10, 2025 10:30 AM
Sample Description	Group 2 Wastewater WW-CT
Contract ID	SIL_042_2556 **Plot** 64 **Site** IDEC Asia (Thailand) Co.,Ltd
Date Analysis Commenced	Sep 11, 2025
Condition of Sample	Contained in one amber glass bottle and three plastic bottles. sample containers comply to pretreatment - preservation standards (APHA/USEPA)
Physical Property	Yellow, some odour, solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2.0	8.2	≤500	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Bangkok
COD	mg/L	-	25	46	≤750	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Bangkok
pH (on site) *		-	-	7.7	5.5-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Temperature *	Degree C	-	-	28.2	≤45	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	28	≤200	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

Guideline : Standard of WHA Saraburi Industrial Land, Maximum levels for wastewater discharging to central wastewater treatment plant.
Sampling By : Panupong Sanet ทะเบียนเลขที่ ว-204-ว-0204

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

Technical Management Narin Saweng, Supervisor, ทะเบียนเลขที่ ว-204-ว-0009
Approved by Kanokkorn Anek, Assistant General Manager, ทะเบียนเลขที่ ว-204-ต-0004

Analysis / Test Report

TESTING No.0009

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name : Factory I Monthly
Project Location: WHA SIL

Lot ID: 2579566
Date Received : Sep 10, 2025
Date Reported : Sep 17, 2025
Report Number : 3389399-1

Sample Number	2579566-1
Sampled Date	Sep 10, 2025 10:45 AM
Sample Description	Group 2 Wastewater WW-CT
Contract ID	SIL_009_2554 **Plot** 43,44 **Site** JCY HDD Technology Co.,Ltd.
Date Analysis Commenced	Sep 11, 2025
Condition of Sample	Contained in one amber glass bottle and three plastic bottles. sample containers comply to pretreatment - preservation standards (APHA/USEPA)
Physical Property	Yellow, some odour, solid and no turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2.0	6.6	≤500	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Bangkok
COD	mg/L	-	25	31	≤750	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Bangkok
pH (on site) *		-	-	7.7	5.5-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Temperature *	Degree C	-	-	30.2	≤45	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	<5	≤200	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

Guideline : Standard of WHA Saraburi Industrial Land, Maximum levels for wastewater discharging to central wastewater treatment plant.
Sampling By : Panupong Sanet ทะเบียนเลขที่ ว-204-ว-0204

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

Technical Management Suwimon Chairangsut, Scientist (3), ทะเบียนเลขที่ ว-204-ว-0018
Approved by Kanokkorn Anek, Assistant General Manager, ทะเบียนเลขที่ ว-204-ต-0004

Analysis / Test Report

TESTING No.0009

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name : Factory I Monthly
Project Location: WHA SIL

Lot ID: 2579584
Date Received : Sep 11, 2025
Date Reported : Sep 17, 2025
Report Number : 3389427-1

Sample Number	2579584-1
Sampled Date	Sep 11, 2025 8:55 AM
Sample Description	Group 2 Wastewater WW-CT
Contract ID	SIL_034_2556 **Plot** 162/1 **Site** Johnan F. Tech (Thailand) Co.,Ltd.
Date Analysis Commenced	Sep 11, 2025
Condition of Sample	Contained in one amber glass bottle and three plastic bottles. sample containers comply to pretreatment - preservation standards (APHA/USEPA)
Physical Property	Yellow, a lot of odour, some solid and a lot of turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2.0	18.2	≤500	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Bangkok
COD	mg/L	-	25	94	≤750	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Bangkok
pH (on site) *		-	-	7.7	5.5-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Temperature *	Degree C	-	-	29.4	≤45	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	24	≤200	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

Guideline : Standard of WHA Saraburi Industrial Land, Maximum levels for wastewater discharging to central wastewater treatment plant.
Sampling By : Panupong Sanet ทะเบียนเลขที่ ว-204-ว-0204

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

Technical Management Narin Saweng, Supervisor, ทะเบียนเลขที่ ว-204-ว-0009
Approved by Kanokkorn Anek, Assistant General Manager, ทะเบียนเลขที่ ว-204-ต-0004

Analysis / Test Report

TESTING No.0009

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name : Factory I Monthly
Project Location: WHA SIL

Lot ID: 2579567
Date Received : Sep 11, 2025
Date Reported : Sep 17, 2025
Report Number : 3389401-1

Sample Number	2579567-1
Sampled Date	Sep 11, 2025 9:40 AM
Sample Description	Group 2 Wastewater WW-CT
Contract ID	SIL_010_2556 **Plot** 146 **Site** Knauf Gypsum (Thailand) Co.,Ltd.
Date Analysis Commenced	Sep 11, 2025
Condition of Sample	Contained in one amber glass bottle and three plastic bottles. sample containers comply to pretreatment - preservation standards (APHA/USEPA)
Physical Property	Yellow, some odour, solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2.0	3.7	≤500	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Bangkok
COD	mg/L	-	25	<25	≤750	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Bangkok
pH (on site) *		-	-	7.4	5.5-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Temperature *	Degree C	-	-	36.2	≤45	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	33	≤200	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

Guideline : Standard of WHA Saraburi Industrial Land, Maximum levels for wastewater discharging to central wastewater treatment plant.
Sampling By : Panupong Sanet ทะเบียนเลขที่ ว-204-ว-0204

Remark :
- LOD : Limit of Detection
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- Sampling is not included in scope of accreditation ISO/IEC 17025

Technical Management Narin Saweng, Supervisor, ทะเบียนเลขที่ ว-204-ว-0009
Approved by Kanokkorn Anek, Assistant General Manager, ทะเบียนเลขที่ ว-204-ต-0004

Analysis / Test Report

TESTING No.0009

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name : Factory I Monthly
Project Location: WHA SIL

Lot ID: 2579647
Date Received : Sep 09, 2025
Date Reported : Sep 16, 2025
Report Number : 3389408-1

Sample Number	2579647-1
Sampled Date	Sep 09, 2025 11:05 AM
Sample Description	Group 2 Wastewater WW-CT
Contract ID	SIL_013_2567 **Plot** 58/1 **Site** Kuramo (Thailand) CO.,LTD.
Date Analysis Commenced	Sep 10, 2025
Condition of Sample	Contained in three plastic bottles and one amber glass bottle, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property	Yellow, a lot of odour, some solid and a lot of turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2.0	99.0	≤500	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Bangkok
COD	mg/L	-	25	204	≤750	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
Oil & Grease	mg/L	-	3	5	≤10	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Bangkok
pH (on site) *		-	-	7.1	5.5-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Temperature *	Degree C	-	-	31.2	≤45	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	52	≤200	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

Guideline : Standard of WHA Saraburi Industrial Land, Maximum levels for wastewater discharging to central wastewater treatment plant.
Sampling By : Panupong Sanet ทะเบียนเลขที่ ว-204-ว-0204

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

Technical Management Siriluk Bunnak, Section Head, ทะเบียนเลขที่ ว-204-ว-0013
Approved by Kanokkorn Anek, Assistant General Manager, ทะเบียนเลขที่ ว-204-ต-0004

Analysis / Test Report

TESTING No.0009

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name : Factory I Monthly
Project Location: WHA SIL

Lot ID: 2579574
Date Received : Sep 11, 2025
Date Reported : Sep 17, 2025
Report Number : 3389413-1

Sample Number	2579574-1
Sampled Date	Sep 11, 2025 10:15 AM
Sample Description	Group 2 Wastewater WW-CT
Contract ID	SIL_018_2554 **Plot** 10,82,40 **Site** Maxion Wheels (Thailand) Co.,Ltd.
Date Analysis Commenced	Sep 11, 2025
Condition of Sample	Contained in one amber glass bottle and three plastic bottles. sample containers comply to pretreatment - preservation standards (APHA/USEPA)
Physical Property	Yellow, some odour, solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2.0	6.6	≤500	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Bangkok
COD	mg/L	-	25	35	≤750	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Bangkok
pH (on site) *		-	-	7.5	5.5-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Temperature *	Degree C	-	-	32.8	≤45	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	20	≤200	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

Guideline : Standard of WHA Saraburi Industrial Land, Maximum levels for wastewater discharging to central wastewater treatment plant.
Sampling By : Panupong Sanet ทะเบียนเลขที่ ว-204-ว-0204

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

Technical Management Narin Saweng, Supervisor, ทะเบียนเลขที่ ว-204-ว-0009
Approved by Kanokkorn Anek, Assistant General Manager, ทะเบียนเลขที่ ว-204-ต-0004

Analysis / Test Report

TESTING No.0009

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name : Factory I Monthly
Project Location: WHA SIL

Lot ID: 2579582
Date Received : Sep 10, 2025
Date Reported : Sep 17, 2025
Report Number : 3389424-1

Sample Number	2579582-1
Sampled Date	Sep 10, 2025 10:35 AM
Sample Description	Group 2 Wastewater WW-CT
Contract ID	SIL_011_2554 **Plot** 65 **Site** Michelin ROH Co.,Ltd.
Date Analysis Commenced	Sep 11, 2025
Condition of Sample	Contained in one amber glass bottle and three plastic bottles. sample containers comply to pretreatment - preservation standards (APHA/USEPA)
Physical Property	Yellow, some odour, solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2.0	5.1	≤500	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Bangkok
COD	mg/L	-	25	26	≤750	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Bangkok
pH (on site) *		-	-	7.4	5.5-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Temperature *	Degree C	-	-	29.2	≤45	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	14	≤200	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

Guideline : Standard of WHA Saraburi Industrial Land, Maximum levels for wastewater discharging to central wastewater treatment plant.
Sampling By : Panupong Sanet ทะเบียนเลขที่ ว-204-ว-0204

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

Technical Management Narin Saweng, Supervisor, ทะเบียนเลขที่ ว-204-ว-0009
Approved by Kanokkorn Anek, Assistant General Manager, ทะเบียนเลขที่ ว-204-ต-0004

Analysis / Test Report

TESTING No.0009

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name : Factory I Monthly
Project Location: WHA SIL

Lot ID: 2579569
Date Received : Sep 10, 2025
Date Reported : Sep 17, 2025
Report Number : 3389405-1

Sample Number	2579569-1
Sampled Date	Sep 10, 2025 11:30 AM
Sample Description	Group 2 Wastewater WW-CT
Contract ID	SIL_013_2554 **Plot** 5,83,92 **Site** Michelin Siam Co.,Ltd. (1st)
Date Analysis Commenced	Sep 11, 2025
Condition of Sample	Contained in one amber glass bottle and three plastic bottles. sample containers comply to pretreatment - preservation standards (APHA/USEPA)
Physical Property	Yellow, some odour, solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2.0	3.8	≤500	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Bangkok
COD	mg/L	-	25	<25	≤750	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Bangkok
pH (on site) *		-	-	7.8	5.5-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Temperature *	Degree C	-	-	31.7	≤45	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	344	≤3000	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	8	≤200	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

Guideline : Standard of WHA Saraburi Industrial Land, Maximum levels for wastewater discharging to central wastewater treatment plant.
Sampling By : Panupong Sanet ทะเบียนเลขที่ ว-204-ว-0204

Remark :
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Technical Management Suwimon Chairangsut, Scientist (3), ทะเบียนเลขที่ ว-204-ว-0018
Approved by Kanokkorn Anek, Assistant General Manager, ทะเบียนเลขที่ ว-204-ต-0004

Analysis / Test Report

TESTING No.0009

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name : Factory I Monthly
Project Location: WHA SIL

Lot ID: 2579569
Date Received : Sep 10, 2025
Date Reported : Sep 17, 2025
Report Number : 3389405-1

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

Technical Management Suwimon Chairangsut, Scientist (3), ทะเบียนเลขที่ ว-204-ว-0018
Approved by Kanokkorn Anek, Assistant General Manager, ทะเบียนเลขที่ ว-204-ต-0004

Analysis / Test Report

TESTING No.0009

Lot ID: 2579617
Date Received : Sep 10, 2025
Date Reported : Sep 17, 2025
Report Number : 3389460-1

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name : Factory I Monthly
Project Location: WHA SIL

Page 1 of 1

Sample Number	2579617-1
Sampled Date	Sep 10, 2025 11:45 AM
Sample Description	Group 2 Wastewater WW-CT
Contract ID	SIL_002_2560 **Plot** 17 **Site** Michelin Siam Co.,Ltd
Date Analysis Commenced	Sep 11, 2025
Condition of Sample	Contained in one amber glass bottle and three plastic bottles. sample containers comply to pretreatment - preservation standards (APHA/USEPA)
Physical Property	Yellow, some odour, solid and no turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2.0	2.8	≤500	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Bangkok
COD	mg/L	-	25	<25	≤750	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Bangkok
pH (on site) *		-	-	7.7	5.5-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Temperature *	Degree C	-	-	29.7	≤45	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	13	≤200	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

Guideline : Standard of WHA Saraburi Industrial Land, Maximum levels for wastewater discharging to central wastewater treatment plant.
Sampling By : Panupong Saneri ทะเบียนเลขที่ ว-204-ว-0204

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

Technical Management Narin Saiseng, Supervisor, ทะเบียนเลขที่ ว-204-ว-0009
Approved by Kanokkorn Anek, Assistant General Manager, ทะเบียนเลขที่ ว-204-ต-0004

Analysis / Test Report

TESTING No.0009

Lot ID: 2579629
Date Received : Sep 09, 2025
Date Reported : Sep 16, 2025
Report Number : 3389480-1

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name : Factory I Monthly
Project Location: WHA SIL

Page 1 of 1

Sample Number	2579629-1
Sampled Date	Sep 09, 2025 8:40 AM
Sample Description	Group 2 Wastewater WW-CT
Contract ID	SIL_003_2566 **Plot** 135 **Site** Miyagin Industry (Thailand) Co.,Ltd
Date Analysis Commenced	Sep 10, 2025
Condition of Sample	Contained in three plastic bottles and one amber glass bottle, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property	Yellow, some odour, solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2.0	19.7	≤500	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Bangkok
COD	mg/L	-	25	85	≤750	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Bangkok
pH (on site) *		-	-	7.9	5.5-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Temperature *	Degree C	-	-	30.3	≤45	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	20	≤200	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

Guideline : Standard of WHA Saraburi Industrial Land, Maximum levels for wastewater discharging to central wastewater treatment plant.
Sampling By : Panupong Saneri ทะเบียนเลขที่ ว-204-ว-0204

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

Technical Management Siriluk Bunnak, Section Head, ทะเบียนเลขที่ ว-204-ว-0013
Approved by Kanokkorn Anek, Assistant General Manager, ทะเบียนเลขที่ ว-204-ต-0004

Analysis / Test Report

TESTING No.0009

Lot ID: 2579597
Date Received : Sep 11, 2025
Date Reported : Sep 16, 2025
Report Number : 3389446-1

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name : Factory I Monthly
Project Location: WHA SIL

Page 1 of 1

Sample Number	2579597-1
Sampled Date	Sep 11, 2025 9:00 AM
Sample Description	Group 2 Wastewater WW-CT
Contract ID	SIL_048_2558 **Plot** 160, 161, 162, 166, 168 **Site** Muto (Thailand) Co.,Ltd.
Date Analysis Commenced	Sep 12, 2025
Condition of Sample	Contained in one amber glass bottle and three plastic bottles. sample containers comply to pretreatment - preservation standards (APHA/USEPA)
Physical Property	Yellow, a lot of odour, some solid and a lot of turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2.0	79.8	≤500	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Bangkok
COD	mg/L	-	25	185	≤750	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
Oil & Grease	mg/L	-	3	4	≤10	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Bangkok
pH (on site) *		-	-	7.8	5.5-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Temperature *	Degree C	-	-	30.8	≤45	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	81	≤200	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

Guideline : Standard of WHA Saraburi Industrial Land, Maximum levels for wastewater discharging to central wastewater treatment plant.
Sampling By : Panupong Saneri ทะเบียนเลขที่ ว-204-ว-0204

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

Technical Management Suwimon Chairuangsut, Scientist (3), ทะเบียนเลขที่ ว-204-ว-0018
Approved by Kanokkorn Anek, Assistant General Manager, ทะเบียนเลขที่ ว-204-ต-0004

Analysis / Test Report

TESTING No.0009

Lot ID: 2579627
Date Received : Sep 01, 2025
Date Reported : Sep 08, 2025
Report Number : 3389478-1

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name : Factory I Monthly
Project Location: WHA SIL

Page 1 of 1

Sample Number	2579627-1
Sampled Date	Sep 01, 2025 9:50 AM
Sample Description	Group 2 Wastewater WW-CT
Contract ID	SIL_005_2565 **Plot** 6 **Site** Nawaplastic Industries Co., Ltd.
Date Analysis Commenced	Sep 02, 2025
Condition of Sample	Contained in one amber glass bottle and three plastic bottles. sample containers comply to pretreatment - preservation standards (APHA/USEPA)
Physical Property	Yellow, some odour, solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2.0	19.5	≤500	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Bangkok
COD	mg/L	-	25	139	≤750	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Bangkok
pH (on site) *		-	-	8.0	5.5-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Temperature *	Degree C	-	-	31.5	≤45	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	25	≤200	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

Guideline : Standard of WHA Saraburi Industrial Land, Maximum levels for wastewater discharging to central wastewater treatment plant.
Sampling By : Chainarong Sriburin ทะเบียนเลขที่ ว-204-ว-0149

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

Technical Management Siriluk Bunnak, Section Head, ทะเบียนเลขที่ ว-204-ว-0013
Approved by Kanokkorn Anek, Assistant General Manager, ทะเบียนเลขที่ ว-204-ต-0004

Analysis / Test Report

TESTING No.0009

Lot ID: 2579598
Date Received : Sep 03, 2025
Date Reported : Sep 10, 2025
Report Number : 3389448-1

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name : Factory I Monthly
Project Location: WHA SIL

Page 1 of 1

Sample Number	2579598-1
Sampled Date	Sep 03, 2025 11:10 AM
Sample Description	Group 2 Wastewater WW-CT
Contract ID	SIL_055_2554 **Plot** 80, 81 **Site** Nidec Component Technology(Thailand) Co., Ltd.
Date Analysis Commenced	Sep 04, 2025
Condition of Sample	Contained in one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property	Yellow, some odour, some solid and no turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2.0	2.4	≤500	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Bangkok
COD	mg/L	-	25	<25	≤750	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Bangkok
pH (on site) *		-	-	7.4	5.5-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Temperature *	Degree C	-	-	30.6	≤45	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	<5	≤200	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

Guideline : Standard of WHA Saraburi Industrial Land, Maximum levels for wastewater discharging to central wastewater treatment plant.
Sampling By : Panupong Saneri ทะเบียนเลขที่ ว-204-ว-0204

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

Technical Management Suwimon Chairuangsut, Scientist (3), ทะเบียนเลขที่ ว-204-ว-0018
Approved by Kanokkorn Anek, Assistant General Manager, ทะเบียนเลขที่ ว-204-ต-0004

Analysis / Test Report

TESTING No.0009

Lot ID: 2579628
Date Received : Sep 09, 2025
Date Reported : Sep 16, 2025
Report Number : 3389479-1

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name : Factory I Monthly
Project Location: WHA SIL

Page 1 of 1

Sample Number	2579628-1
Sampled Date	Sep 09, 2025 11:00 AM
Sample Description	Group 2 Wastewater WW-CT
Contract ID	SIL_007_2565 **Plot** 68 **Site** Nihonchi Food (Thailand) Co.,Ltd.
Date Analysis Commenced	Sep 10, 2025
Condition of Sample	Contained in three plastic bottles and one amber glass bottle, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property	Yellow, some odour, solid and no turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2.0	2.8	≤500	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Bangkok
COD	mg/L	-	25	28	≤750	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Bangkok
pH (on site) *		-	-	7.9	5.5-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Temperature *	Degree C	-	-	31.2	≤45	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	16	≤200	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

Guideline : Standard of WHA Saraburi Industrial Land, Maximum levels for wastewater discharging to central wastewater treatment plant.
Sampling By : Panupong Saneri ทะเบียนเลขที่ ว-204-ว-0204

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

Technical Management Siriluk Bunnak, Section Head, ทะเบียนเลขที่ ว-204-ว-0013
Approved by Kanokkorn Anek, Assistant General Manager, ทะเบียนเลขที่ ว-204-ต-0004

Analysis / Test Report

Lot ID: 2579602
Date Received : Sep 04, 2025
Date Reported : Sep 11, 2025
Report Number : 3389453-1

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name : Factory I Monthly
Project Location: WHA SIL

Page 1 of 1

Sample Number	2579602-1
Sampled Date	Sep 04, 2025 10:40 AM
Sample Description	Group 2 Wastewater WW-CT
Contract ID	SIL_063_2556 **Plot** 93C **Site** Nikon (Thailand) Co.,Ltd.
Date Analysis Commenced	Sep 04, 2025
Condition of Sample	Contained in one amber glass bottle and three plastic bottles. sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property	Yellow, a lot of odour, solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2.0	101	≤500	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Bangkok
COD	mg/L	-	25	176	≤750	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Bangkok
pH (on site)		-	-	7.8	5.5-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Temperature	Degree C	-	-	30.2	≤45	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	55	≤200	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

Guideline : Standard of WHA Saraburi Industrial Land, Maximum levels for wastewater discharging to central wastewater treatment plant.
Sampling By : Panupong Saneri

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

Approved by Narin Saiseng, Supervisor

Analysis / Test Report

TESTING No.0009

Lot ID: 2579587
Date Received : Sep 02, 2025
Date Reported : Sep 08, 2025
Report Number : 3389431-1

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name : Factory I Monthly
Project Location: WHA SIL

Page 1 of 1

Sample Number	2579587-1
Sampled Date	Sep 02, 2025 11:20 AM
Sample Description	Group 2 Wastewater WW-CT
Contract ID	SIL_040_2556 **Plot** 21 **Site** Noritake SA (Thailand) Co.,Ltd
Date Analysis Commenced	Sep 03, 2025
Condition of Sample	Contained in three plastic bottles and one amber glass bottle, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property	Yellow, some odour, a lot of solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2.0	18.7	≤500	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Bangkok
COD	mg/L	-	25	84	≤750	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Bangkok
pH (on site) *		-	-	7.3	5.5-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Temperature *	Degree C	-	-	31.5	≤45	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	52	≤200	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

Guideline : Standard of WHA Saraburi Industrial Land, Maximum levels for wastewater discharging to central wastewater treatment plant.
Sampling By : Panupong Saneri ทะเบียนเลขที่ ว-204-ว-0204

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

Technical Management Siriluk Bunnak, Section Head, ทะเบียนเลขที่ ว-204-ว-0013
Approved by Kanokkorn Anek, Assistant General Manager, ทะเบียนเลขที่ ว-204-ต-0004

Analysis / Test Report

TESTING No.0009

Lot ID: 2579666
Date Received : Sep 10, 2025
Date Reported : Sep 17, 2025
Report Number : 3389518-1

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name : Factory I Monthly
Project Location: WHA SIL

Page 1 of 2

Sample Number	2579666-1
Sampled Date	Sep 10, 2025 1:10 PM
Sample Description	Group 2 Wastewater WW-CT
Contract ID	SIL_019_2554 **Plot** 20 **Site** Noritake SCG Plaster Co.,Ltd
Date Analysis Commenced	Sep 11, 2025
Condition of Sample	Contained in one amber glass bottle and three plastic bottles. sample containers comply to pretreatment - preservation standards (APHA/USEPA)
Physical Property	Yellow, some odour, solid and no turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2.0	3.1	≤500	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Bangkok
COD	mg/L	-	25	<25	≤750	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Bangkok
pH (on site) *		-	-	7.8	5.5-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Temperature *	Degree C	-	-	30.4	≤45	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	120	≤3000	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	<5	≤200	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

Guideline : Standard of WHA Saraburi Industrial Land, Maximum levels for wastewater discharging to central wastewater treatment plant.
Sampling By : Panupong Saneri ทะเบียนเลขที่ ว-204-ว-0204

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

Technical Management Narin Saiseng, Supervisor, ทะเบียนเลขที่ ว-204-ว-0009
Approved by Kanokkorn Anek, Assistant General Manager, ทะเบียนเลขที่ ว-204-ต-0004

Analysis / Test Report

TESTING No.0009

Lot ID: 2579666
Date Received : Sep 10, 2025
Date Reported : Sep 17, 2025
Report Number : 3389518-1

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name : Factory I Monthly
Project Location: WHA SIL

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

Technical Management Narin Saeeng, Supervisor, ทะเบียนเลขที่ ว-204-ว-0009
Approved by Kanokkorn Anek, Assistant General Manager, ทะเบียนเลขที่ ว-204-ส-0004

Analysis / Test Report

TESTING No.0009

Lot ID: 2579619
Date Received : Sep 09, 2025
Date Reported : Sep 16, 2025
Report Number : 3389470-1

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name : Factory I Monthly
Project Location: WHA SIL

Sample Number	2579619-1
Sampled Date	Sep 09, 2025 10:15 AM
Sample Description	Group 2 Wastewater WW-CT
Contract ID	SIL_007_2560 **Plot** 142/2 **Site** NX SHOE (THAILAND) CO., LTD.
Date Analysis Commenced	Sep 10, 2025
Condition of Sample	Contained in three plastic bottles and one amber glass bottle, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property	Yellow, a lot of odour, solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2.0	19.2	≤500	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Bangkok
COD	mg/L	-	25	87	≤750	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Bangkok
pH (on site) *		-	-	7.4	5.5-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Temperature *	Degree C	-	-	30.7	≤45	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	55	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

Guideline : Standard of WHA Saraburi Industrial Land, Maximum levels for wastewater discharging to central wastewater treatment plant.
Sampling By : Panupong Sanei ทะเบียนเลขที่ ว-204-ว-0204

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

Technical Management Siriluk Bunnak, Section Head, ทะเบียนเลขที่ ว-204-ว-0013
Approved by Kanokkorn Anek, Assistant General Manager, ทะเบียนเลขที่ ว-204-ส-0004

Analysis / Test Report

TESTING No.0009

Lot ID: 2579620
Date Received : Sep 09, 2025
Date Reported : Sep 16, 2025
Report Number : 3389471-1

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name : Factory I Monthly
Project Location: WHA SIL

Sample Number	2579620-1
Sampled Date	Sep 09, 2025 10:20 AM
Sample Description	Group 2 Wastewater WW-CT
Contract ID	SIL_008_2560 **Plot** 142/4 **Site** NX SHOE (THAILAND) CO., LTD.
Date Analysis Commenced	Sep 10, 2025
Condition of Sample	Contained in three plastic bottles and one amber glass bottle, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property	Yellow, a lot of odour, solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2.0	69.4	≤500	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Bangkok
COD	mg/L	-	25	248	≤750	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
Oil & Grease	mg/L	-	3	4	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Bangkok
pH (on site) *		-	-	7.6	5.5-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Temperature *	Degree C	-	-	30.8	≤45	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	116	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

Guideline : Standard of WHA Saraburi Industrial Land, Maximum levels for wastewater discharging to central wastewater treatment plant.
Sampling By : Panupong Sanei ทะเบียนเลขที่ ว-204-ว-0204

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

Technical Management Siriluk Bunnak, Section Head, ทะเบียนเลขที่ ว-204-ว-0013
Approved by Kanokkorn Anek, Assistant General Manager, ทะเบียนเลขที่ ว-204-ส-0004

Analysis / Test Report

TESTING No.0009

Lot ID: 2579660
Date Received : Sep 01, 2025
Date Reported : Sep 08, 2025
Report Number : 3389512-1

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name : Factory I Monthly
Project Location: WHA SIL

Sample Number	2579660-1
Sampled Date	Sep 01, 2025 11:00 AM
Sample Description	Group 2 Wastewater WW-CT
Contract ID	SIL_053_2554 **Plot** 36 **Site** Ready Clean Co.,Ltd.
Date Analysis Commenced	Sep 02, 2025
Condition of Sample	Contained in one amber glass bottle and four plastic bottles. sample containers comply to pretreatment - preservation standards (APHA/USEPA)
Physical Property	Yellow, some odour, solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Anionic Surfactant as MBAS *	mg/L	0.015	0.05	1.78	≤30	Based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5540 B, C	Bangkok
BOD (5 days at 20 degree C)	mg/L	-	2.0	4.9	≤500	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Bangkok
COD	mg/L	-	25	42	≤750	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Bangkok
pH (on site) *		-	-	7.7	5.5-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Temperature *	Degree C	-	-	31.0	≤45	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	9	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

Guideline : Standard of WHA Saraburi Industrial Land, Maximum levels for wastewater discharging to central wastewater treatment plant.
Sampling By : Chainarong Sriborn ทะเบียนเลขที่ ว-204-ว-0149

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

Technical Management Siriluk Bunnak, Section Head, ทะเบียนเลขที่ ว-204-ว-0013
Approved by Kanokkorn Anek, Assistant General Manager, ทะเบียนเลขที่ ว-204-ส-0004

Analysis / Test Report

TESTING No.0009

Lot ID: 2579660
Date Received : Sep 01, 2025
Date Reported : Sep 08, 2025
Report Number : 3389512-1

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name : Factory I Monthly
Project Location: WHA SIL

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

Technical Management Siriluk Bunnak, Section Head, ทะเบียนเลขที่ ว-204-ว-0013
Approved by Kanokkorn Anek, Assistant General Manager, ทะเบียนเลขที่ ว-204-ส-0004

Analysis / Test Report

TESTING No.0009

Lot ID: 2579596
Date Received : Sep 02, 2025
Date Reported : Sep 09, 2025
Report Number : 3389444-1

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name : Factory I Monthly
Project Location: WHA SIL

Sample Number	2579596-1
Sampled Date	Sep 02, 2025 10:30 AM
Sample Description	Group 2 Wastewater WW-CT
Contract ID	SIL_047_2556 **Plot** 138 **Site** Rohm Mechatech (Thailand) Co.,Ltd.
Date Analysis Commenced	Sep 03, 2025
Condition of Sample	Contained in three plastic bottles and one amber glass bottle, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property	Yellow, some odour, solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2.0	19.7	≤500	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Bangkok
COD	mg/L	-	25	111	≤750	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Bangkok
pH (on site) *		-	-	8.2	5.5-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Temperature *	Degree C	-	-	28.4	≤45	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	32	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

Guideline : Standard of WHA Saraburi Industrial Land, Maximum levels for wastewater discharging to central wastewater treatment plant.
Sampling By : Panupong Sanei ทะเบียนเลขที่ ว-204-ว-0204

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

Technical Management Suwimon Chansangwut, Scientist (3), ทะเบียนเลขที่ ว-204-ว-0018
Approved by Kanokkorn Anek, Assistant General Manager, ทะเบียนเลขที่ ว-204-ส-0004

Analysis / Test Report

TESTING No.0009

Lot ID: 2579616
Date Received : Sep 04, 2025
Date Reported : Sep 11, 2025
Report Number : 3389467-1

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name : Factory I Monthly
Project Location: WHA SIL

Sample Number	2579616-1
Sampled Date	Sep 04, 2025 10:20 AM
Sample Description	Group 2 Wastewater WW-CT
Contract ID	SIL_001_2560 **Plot** 91 **Site** SCG Ceramics Co.,Ltd.
Date Analysis Commenced	Sep 04, 2025
Condition of Sample	Contained in one amber glass bottle and three plastic bottles. sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property	Yellow, some odour, solid and no turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2.0	<2.0	≤500	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Bangkok
COD	mg/L	-	25	<25	≤750	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Bangkok
pH (on site) *		-	-	7.6	5.5-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Temperature *	Degree C	-	-	29.1	≤45	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	<5	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

Guideline : Standard of WHA Saraburi Industrial Land, Maximum levels for wastewater discharging to central wastewater treatment plant.
Sampling By : Panupong Sanei ทะเบียนเลขที่ ว-204-ว-0204

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

Technical Management Narin Saeeng, Supervisor, ทะเบียนเลขที่ ว-204-ว-0009
Approved by Kanokkorn Anek, Assistant General Manager, ทะเบียนเลขที่ ว-204-ส-0004

Analysis / Test Report

TESTING No.0009

Lot ID: 2579625
Date Received : Sep 02, 2025
Date Reported : Sep 09, 2025
Report Number : 3389476-1

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name : Factory I Monthly
Project Location: WHA SIL

Sample Number	2579625-1
Sampled Date	Sep 02, 2025 11:30 AM
Sample Description	Group 2 Wastewater WW-CT
Contract ID	SIL_001_2565 **Plot** 34 **Site** SCG Landscape
Date Analysis Commenced	Sep 03, 2025
Condition of Sample	Contained in three plastic bottles and one amber glass bottle, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property	Yellow, some odour, solid and no turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2.0	4.3	≤500	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Bangkok
COD	mg/L	-	25	35	≤750	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Bangkok
pH (on site) *		-	-	7.8	5.5-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Temperature *	Degree C	-	-	31.0	≤45	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	<5	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

Guideline : Standard of WHA Saraburi Industrial Land, Maximum levels for wastewater discharging to central wastewater treatment plant.
Sampling By : Panupong Sanei ทะเบียนเลขที่ ว-204-ว-0204

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

Technical Management Suwimon Chansangwut, Scientist (3), ทะเบียนเลขที่ ว-204-ว-0018
Approved by Kanokkorn Anek, Assistant General Manager, ทะเบียนเลขที่ ว-204-ส-0004

Analysis / Test Report

TESTING No.0009

Lot ID: 2579559
Date Received : Sep 01, 2025
Date Reported : Sep 08, 2025
Report Number : 3389307-1

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name : Factory I Monthly
Project Location: WHA SIL

Sample Number	2579559-1
Sampled Date	Sep 01, 2025 11:10 AM
Sample Description	Group 2 Wastewater WW-CT
Contract ID	SIL_002_2554 **Plot** 10, 11 **Site** SCG Roofing Co.,Ltd.
Date Analysis Commenced	Sep 02, 2025
Condition of Sample	Contained in one amber glass bottle and three plastic bottles. sample containers comply to pretreatment - preservation standards (APHA/USEPA)
Physical Property	Yellow, some odour, a lot of solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2.0	4.5	≤500	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Bangkok
COD	mg/L	-	25	56	≤750	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Bangkok
pH (on site) *		-	-	7.7	5.5-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Temperature *	Degree C	-	-	30.8	≤45	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	87	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

Guideline : Standard of WHA Saraburi Industrial Land, Maximum levels for wastewater discharging to central wastewater treatment plant.
Sampling By : Chainarong Sriborn ทะเบียนเลขที่ ว-204-ว-0149

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

Technical Management Siriluk Bunnak, Section Head, ทะเบียนเลขที่ ว-204-ว-0013
Approved by Kanokkorn Anek, Assistant General Manager, ทะเบียนเลขที่ ว-204-ส-0004

Analysis / Test Report

TESTING No.0009

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name : Factory I Monthly
Project Location: WHA SIL

Lot ID: 2579579
Date Received : Sep 04, 2025
Date Reported : Sep 11, 2025
Report Number : 3389419-1

Sample Number	2579579-1
Sampled Date	Sep 04, 2025 10:15 AM
Sample Description	Group 2 Wastewater WW-CT
Contract ID	SIL_025_2554 **Plot** 39,41 **Site** SCG Roofing Co.,Ltd
Date Analysis Commenced	Sep 04, 2025
Condition of Sample	Contained in one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property	Yellow, some odour, solid and no turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2.0	<2.0	≤500	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Bangkok
COD	mg/L	-	25	36	≤750	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Bangkok
pH (on site) *		-	-	7.4	5.5-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Temperature *	Degree C	-	-	29.5	≤45	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	9	≤200	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

Guideline : Standard of WHA Saraburi Industrial Land, Maximum levels for wastewater discharging to central wastewater treatment plant.
Sampling By : Panupong Saneri ทะเบียนเลขที่ ว-204-ว-0204

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

Technical Management Narin Saeeng, Supervisor, ทะเบียนเลขที่ ว-204-ว-0009
Approved by Kanokkorn Anek, Assistant General Manager, ทะเบียนเลขที่ ว-204-ว-0004

Analysis / Test Report

TESTING No.0009

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name : Factory I Monthly
Project Location: WHA SIL

Lot ID: 2579654
Date Received : Sep 09, 2025
Date Reported : Sep 16, 2025
Report Number : 3389505-1

Sample Number	2579654-1
Sampled Date	Sep 08, 2025 10:40 AM
Sample Description	Group 2 Wastewater WW-CT
Contract ID	SIL_006_2568 **Plot** 270 **Site** Scholre Technology (Thailand) Company Limited
Date Analysis Commenced	Sep 10, 2025
Condition of Sample	Contained in three plastic bottles and one amber glass bottle, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property	Yellow, a lot of odour, some solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2.0	18.5	≤500	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Bangkok
COD	mg/L	-	25	62	≤750	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
Oil & Grease	mg/L	-	3	3	≤10	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Bangkok
pH (on site) *		-	-	7.8	5.5-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Temperature *	Degree C	-	-	31.5	≤45	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	14	≤200	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

Guideline : Standard of WHA Saraburi Industrial Land, Maximum levels for wastewater discharging to central wastewater treatment plant.
Sampling By : Panupong Saneri ทะเบียนเลขที่ ว-204-ว-0204

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

Technical Management Siriluk Bunnak, Section Head, ทะเบียนเลขที่ ว-204-ว-0013
Approved by Kanokkorn Anek, Assistant General Manager, ทะเบียนเลขที่ ว-204-ว-0004

Analysis / Test Report

TESTING No.0009

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name : Factory I Monthly
Project Location: WHA SIL

Lot ID: 2579570
Date Received : Sep 09, 2025
Date Reported : Sep 16, 2025
Report Number : 3389407-1

Sample Number	2579570-1
Sampled Date	Sep 09, 2025 11:25 AM
Sample Description	Group 2 Wastewater WW-CT
Contract ID	SIL_015_2556 **Plot** 61,62 **Site** SEKI Corp.(Thailand) Co.,Ltd.
Date Analysis Commenced	Sep 10, 2025
Condition of Sample	Contained in three plastic bottles and one amber glass bottle, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property	Yellow, some odour, solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2.0	12.2	≤500	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Bangkok
COD	mg/L	-	25	52	≤750	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Bangkok
pH (on site) *		-	-	7.8	5.5-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Temperature *	Degree C	-	-	30.5	≤45	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	16	≤200	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

Guideline : Standard of WHA Saraburi Industrial Land, Maximum levels for wastewater discharging to central wastewater treatment plant.
Sampling By : Panupong Saneri ทะเบียนเลขที่ ว-204-ว-0204

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

Technical Management Siriluk Bunnak, Section Head, ทะเบียนเลขที่ ว-204-ว-0013
Approved by Kanokkorn Anek, Assistant General Manager, ทะเบียนเลขที่ ว-204-ว-0004

Analysis / Test Report

TESTING No.0009

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name : Factory I Monthly
Project Location: WHA SIL

Lot ID: 2579600
Date Received : Sep 09, 2025
Date Reported : Sep 16, 2025
Report Number : 3389451-1

Sample Number	2579600-1
Sampled Date	Sep 08, 2025 11:15 AM
Sample Description	Group 2 Wastewater WW-CT
Contract ID	SIL_057_2556 **Plot** 88 **Site** Sekisui Plastics (Thailand) Co.,Ltd.
Date Analysis Commenced	Sep 12, 2025
Condition of Sample	Contained in three plastic bottles and one amber glass bottle, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property	Yellow, some odour, solid and no turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2.0	2.8	≤500	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Bangkok
COD	mg/L	-	25	<25	≤750	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Bangkok
pH (on site) *		-	-	8.8	5.5-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Temperature *	Degree C	-	-	38.3	≤45	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	<5	≤200	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

Guideline : Standard of WHA Saraburi Industrial Land, Maximum levels for wastewater discharging to central wastewater treatment plant.
Sampling By : Panupong Saneri ทะเบียนเลขที่ ว-204-ว-0204

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

Technical Management Siriluk Bunnak, Section Head, ทะเบียนเลขที่ ว-204-ว-0013
Approved by Kanokkorn Anek, Assistant General Manager, ทะเบียนเลขที่ ว-204-ว-0004

Analysis / Test Report

TESTING No.0009

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name : Factory I Monthly
Project Location: WHA SIL

Lot ID: 2579592
Date Received : Sep 11, 2025
Date Reported : Sep 17, 2025
Report Number : 3389439-1

Sample Number	2579592-1
Sampled Date	Sep 11, 2025 9:55 AM
Sample Description	Group 2 Wastewater WW-CT
Contract ID	SIL_071_2557 **Plot** 144,145 **Site** Sekisui-SCG Industrial Co.,Ltd.
Location	Point 1
Date Analysis Commenced	Sep 12, 2025
Condition of Sample	Contained in one amber glass bottle and three plastic bottles. sample containers comply to pretreatment - preservation standards (APHA/USEPA)
Physical Property	Colorless, some odour, solid and no turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2.0	<2.0	≤500	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Bangkok
COD	mg/L	-	25	<25	≤750	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Bangkok
pH (on site) *		-	-	7.7	5.5-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Temperature *	Degree C	-	-	29.4	≤45	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	<5	≤200	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

Guideline : Standard of WHA Saraburi Industrial Land, Maximum levels for wastewater discharging to central wastewater treatment plant.
Sampling By : Panupong Saneri ทะเบียนเลขที่ ว-204-ว-0204

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

Technical Management Narin Saeeng, Supervisor, ทะเบียนเลขที่ ว-204-ว-0009
Approved by Kanokkorn Anek, Assistant General Manager, ทะเบียนเลขที่ ว-204-ว-0004

Analysis / Test Report

TESTING No.0009

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name : Factory I Monthly
Project Location: WHA SIL

Lot ID: 2579593
Date Received : Sep 11, 2025
Date Reported : Sep 17, 2025
Report Number : 3389441-1

Sample Number	2579593-1
Sampled Date	Sep 11, 2025 9:50 AM
Sample Description	Group 2 Wastewater WW-CT
Contract ID	SIL_005_2558 **Plot** 144,145 **Site** Sekisui-SCG Industrial Co.,Ltd.
Location	Point 2
Date Analysis Commenced	Sep 12, 2025
Condition of Sample	Contained in one amber glass bottle and three plastic bottles. sample containers comply to pretreatment - preservation standards (APHA/USEPA)
Physical Property	Colorless, some odour, solid and no turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2.0	<2.0	≤500	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Bangkok
COD	mg/L	-	25	<25	≤750	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Bangkok
pH (on site) *		-	-	7.6	5.5-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Temperature *	Degree C	-	-	29.4	≤45	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	<5	≤200	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

Guideline : Standard of WHA Saraburi Industrial Land, Maximum levels for wastewater discharging to central wastewater treatment plant.
Sampling By : Panupong Saneri ทะเบียนเลขที่ ว-204-ว-0204

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

Technical Management Narin Saeeng, Supervisor, ทะเบียนเลขที่ ว-204-ว-0009
Approved by Kanokkorn Anek, Assistant General Manager, ทะเบียนเลขที่ ว-204-ว-0004

Analysis / Test Report

TESTING No.0009

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name : Factory I Monthly
Project Location: WHA SIL

Lot ID: 2579603
Date Received : Sep 09, 2025
Date Reported : Sep 16, 2025
Report Number : 3389454-1

Sample Number	2579603-1
Sampled Date	Sep 09, 2025 12:50 PM
Sample Description	Group 2 Wastewater WW-CT
Contract ID	SIL_068_2557 **Plot** 59 **Site** Shibakawa (Thailand) Co.,Ltd.
Location	Point 2
Date Analysis Commenced	Sep 10, 2025
Condition of Sample	Contained in three plastic bottles and one amber glass bottle, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property	Yellow, some odour, solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2.0	9.6	≤500	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Bangkok
COD	mg/L	-	25	58	≤750	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Bangkok
pH (on site) *		-	-	7.4	5.5-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Temperature *	Degree C	-	-	27.4	≤45	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	28	≤200	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

Guideline : Standard of WHA Saraburi Industrial Land, Maximum levels for wastewater discharging to central wastewater treatment plant.
Sampling By : Panupong Saneri ทะเบียนเลขที่ ว-204-ว-0204

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

Technical Management Siriluk Bunnak, Section Head, ทะเบียนเลขที่ ว-204-ว-0013
Approved by Kanokkorn Anek, Assistant General Manager, ทะเบียนเลขที่ ว-204-ว-0004

Analysis / Test Report

TESTING No.0009

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name : Factory I Monthly
Project Location: WHA SIL

Lot ID: 2579609
Date Received : Sep 10, 2025
Date Reported : Sep 17, 2025
Report Number : 3389460-1

Sample Number	2579609-1
Sampled Date	Sep 10, 2025 11:10 AM
Sample Description	Group 2 Wastewater WW-CT
Contract ID	SIL_081_2557 **Plot** 150 **Site** Shinentech (DNCT Co.,Ltd.)
Date Analysis Commenced	Sep 11, 2025
Condition of Sample	Contained in one amber glass bottle and three plastic bottles. sample containers comply to pretreatment - preservation standards (APHA/USEPA)
Physical Property	Yellow, some odour, solid and no turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2.0	<2.0	≤500	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Bangkok
COD	mg/L	-	25	<25	≤750	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Bangkok
pH (on site) *		-	-	7.3	5.5-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Temperature *	Degree C	-	-	29.1	≤45	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	29	≤200	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

Guideline : Standard of WHA Saraburi Industrial Land, Maximum levels for wastewater discharging to central wastewater treatment plant.
Sampling By : Panupong Saneri ทะเบียนเลขที่ ว-204-ว-0204

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

Technical Management Narin Saeeng, Supervisor, ทะเบียนเลขที่ ว-204-ว-0009
Approved by Kanokkorn Anek, Assistant General Manager, ทะเบียนเลขที่ ว-204-ว-0004

Analysis / Test Report

TESTING No.0009

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name : Factory I Monthly
Project Location: WHA SIL

Lot ID: 2579662
Date Received : Sep 01, 2025
Date Reported : Sep 08, 2025
Report Number : 3389514-1

Sample Number	2579662-1
Sampled Date	Sep 01, 2025 11:20 AM
Sample Description	Group 2 Wastewater WW-CT
Contract ID	SIL_052_2554 **Plot** 8 **Site** SIAM FIBERGLASS COMPANY LIMITED
Date Analysis Commenced	Sep 02, 2025
Condition of Sample	Contained in one amber glass bottle and three plastic bottles. sample containers comply to pretreatment - preservation standards (APHA/USEPA)
Physical Property	Green, some odour, solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2.0	12.7	≤500	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Bangkok
COD	mg/L	-	25	86	≤750	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
Formaldehyde	mg/L	0.03	0.1	0.2	≤1	Wastewater analysis manual. Environmental Engineering Association of Thailand, 4th ed., 2004	Bangkok
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Bangkok
pH (on site) *		-	-	7.8	5.5-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Temperature *	Degree C	-	-	30.5	≤45	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	22	≤200	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

Guideline : Standard of WHA Saraburi Industrial Land, Maximum levels for wastewater discharging to central wastewater treatment plant.
Sampling By : Chamarong Sriborin ทะเบียนเลขที่ ว-206-ว-0149

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

Technical Management Siriluk Bunnak, Section Head, ทะเบียนเลขที่ ว-204-ว-0013
Approved by Kanokkorn Anek, Assistant General Manager, ทะเบียนเลขที่ ว-204-ว-0004

Analysis / Test Report

TESTING No.0009

Lot ID: 2579662
Date Received : Sep 01, 2025
Date Reported : Sep 08, 2025
Report Number : 3389514-1

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name : Factory I Monthly
Project Location: WHA SIL

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

Technical Management Siriluk Bunnak, Section Head, ทะเบียนเลขที่ ว-204-ว-0013
Approved by Kanokkorn Anek, Assistant General Manager, ทะเบียนเลขที่ ว-204-อ-0004

Analysis / Test Report

TESTING No.0009

Lot ID: 2579664
Date Received : Sep 09, 2025
Date Reported : Sep 16, 2025
Report Number : 3389516-1

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name : Factory I Monthly
Project Location: WHA SIL

Sample Number 2579664-1
Sampled Date Sep 09, 2025 10:50 AM
Sample Description Group 2 Wastewater WW-CT
Contract ID SIL_050_2554 **Plot** 69 **Site** Siam Furukawa Co.,Ltd. (2nd)
Date Analysis Commenced Sep 10, 2025
Condition of Sample Contained in three plastic bottles and one amber glass bottle, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property Yellow, some odour, solid and no turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Lead	mg/L	0.0003	0.0005	0.01	≤0.2	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2.0	3.2	≤500	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Bangkok
COD	mg/L	-	25	<25	≤750	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Bangkok
pH (on site) *		-	-	7.6	5.5-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Temperature *	Degree C	-	-	29.9	≤45	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	1480	≤3000	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	<5	≤200	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

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

Technical Management Siriluk Bunnak, Section Head, ทะเบียนเลขที่ ว-204-ว-0013
Approved by Kanokkorn Anek, Assistant General Manager, ทะเบียนเลขที่ ว-204-อ-0004

Analysis / Test Report

TESTING No.0009

Lot ID: 2579664
Date Received : Sep 09, 2025
Date Reported : Sep 16, 2025
Report Number : 3389516-1

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name : Factory I Monthly
Project Location: WHA SIL

Sampling By : Panupong Sanet ทะเบียนเลขที่ ว-204-ว-0204

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

Technical Management Siriluk Bunnak, Section Head, ทะเบียนเลขที่ ว-204-ว-0013
Approved by Kanokkorn Anek, Assistant General Manager, ทะเบียนเลขที่ ว-204-อ-0004

Analysis / Test Report

TESTING No.0009

Lot ID: 2579663
Date Received : Sep 01, 2025
Date Reported : Sep 08, 2025
Report Number : 3389515-1

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name : Factory I Monthly
Project Location: WHA SIL

Sample Number 2579663-1
Sampled Date Sep 01, 2025 1:35 PM
Sample Description Group 2 Wastewater WW-CT
Contract ID SIL_050_2554 **Plot** 69 **Site** Siam Furukawa Co.,Ltd.(1st)
Date Analysis Commenced Sep 02, 2025
Condition of Sample Contained in one amber glass bottle and four plastic bottles. sample containers comply to pretreatment - preservation standards (APHA/USEPA)
Physical Property Colorless, some odour, solid and no turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Lead	mg/L	0.0003	0.0005	0.005	≤0.2	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2.0	2.9	≤500	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Bangkok
COD	mg/L	-	25	32	≤750	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Bangkok
pH (on site) *		-	-	7.6	5.5-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Temperature *	Degree C	-	-	31.5	≤45	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	628	≤3000	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	<5	≤200	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

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

Technical Management Sawitree Nosangiam, Manager, ทะเบียนเลขที่ ว-204-ว-0007
Approved by Kanokkorn Anek, Assistant General Manager, ทะเบียนเลขที่ ว-204-อ-0004

Analysis / Test Report

TESTING No.0009

Lot ID: 2579663
Date Received : Sep 01, 2025
Date Reported : Sep 08, 2025
Report Number : 3389515-1

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name : Factory I Monthly
Project Location: WHA SIL

Sampling By : Chainarong Sriborin ทะเบียนเลขที่ ว-204-ว-0149

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

Technical Management Sawitree Nosangiam, Manager, ทะเบียนเลขที่ ว-204-ว-0007
Approved by Kanokkorn Anek, Assistant General Manager, ทะเบียนเลขที่ ว-204-อ-0004

Analysis / Test Report

TESTING No.0009

Lot ID: 2579622
Date Received : Sep 01, 2025
Date Reported : Sep 17, 2025
Report Number : 3389473-1

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name : Factory I Monthly
Project Location: WHA SIL

Sample Number 2579622-1
Sampled Date Sep 01, 2025 1:20 PM
Sample Description Group 2 Wastewater WW-CT
Contract ID SIL_010_2560 **Plot** 31 **Site** Siam Furukawa Co.,Ltd.
Date Analysis Commenced Sep 02, 2025
Condition of Sample Contained in one amber glass bottle and three plastic bottles. sample containers comply to pretreatment - preservation standards (APHA/USEPA)
Physical Property Yellow, a lot of odour, solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2.0	33.4	≤500	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Bangkok
COD	mg/L	-	25	173	≤750	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
Oil & Grease	mg/L	-	3	5	≤10	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Bangkok
pH (on site) *		-	-	6.8	5.5-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Temperature *	Degree C	-	-	31.9	≤45	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	59	≤200	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

Guideline : Standard of WHA Saraburi Industrial Land, Maximum levels for wastewater discharging to central wastewater treatment plant.
Sampling By : Chainarong Sriborin ทะเบียนเลขที่ ว-204-ว-0149

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

Technical Management Suwimon Chansangwut, Scientist (3), ทะเบียนเลขที่ ว-204-ว-0018
Approved by Kanokkorn Anek, Assistant General Manager, ทะเบียนเลขที่ ว-204-อ-0004

Analysis / Test Report

TESTING No.0009

Lot ID: 2579577
Date Received : Sep 01, 2025
Date Reported : Sep 08, 2025
Report Number : 3389416-1

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name : Factory I Monthly
Project Location: WHA SIL

Sample Number 2579577-1
Sampled Date Sep 01, 2025 1:10 PM
Sample Description Group 2 Wastewater WW-CT
Contract ID SIL_022_2554 **Plot** 55 **Site** Siam Furukawa Co.,Ltd.
Date Analysis Commenced Sep 02, 2025
Condition of Sample Contained in one amber glass bottle and three plastic bottles. sample containers comply to pretreatment - preservation standards (APHA/USEPA)
Physical Property Yellow, some odour, solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2.0	5.6	≤500	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Bangkok
COD	mg/L	-	25	56	≤750	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Bangkok
pH (on site) *		-	-	7.1	5.5-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Temperature *	Degree C	-	-	32.8	≤45	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	15	≤200	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

Guideline : Standard of WHA Saraburi Industrial Land, Maximum levels for wastewater discharging to central wastewater treatment plant.
Sampling By : Chainarong Sriborin ทะเบียนเลขที่ ว-204-ว-0149

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

Technical Management Siriluk Bunnak, Section Head, ทะเบียนเลขที่ ว-204-ว-0013
Approved by Kanokkorn Anek, Assistant General Manager, ทะเบียนเลขที่ ว-204-อ-0004

Analysis / Test Report

TESTING No.0009

Lot ID: 2579572
Date Received : Sep 03, 2025
Date Reported : Sep 10, 2025
Report Number : 3389408-1

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name : Factory I Monthly
Project Location: WHA SIL

Sample Number 2579572-1
Sampled Date Sep 03, 2025 11:40 AM
Sample Description Group 2 Wastewater WW-CT
Contract ID SIL_016_2554 **Plot** 9,15 **Site** Siam Gypsum Industry (Saraburi) Co.,Ltd.
Location Factory 1
Date Analysis Commenced Sep 04, 2025
Condition of Sample Contained in one amber glass bottle and three plastic bottles. sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property Yellow, some odour, solid and no turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2.0	<2.0	≤500	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Bangkok
COD	mg/L	-	25	<25	≤750	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Bangkok
pH (on site) *		-	-	7.9	5.5-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Temperature *	Degree C	-	-	31.4	≤45	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	<5	≤200	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

Guideline : Standard of WHA Saraburi Industrial Land, Maximum levels for wastewater discharging to central wastewater treatment plant.
Sampling By : Panupong Sanet ทะเบียนเลขที่ ว-204-ว-0204

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

Technical Management Suwimon Chansangwut, Scientist (3), ทะเบียนเลขที่ ว-204-ว-0018
Approved by Kanokkorn Anek, Assistant General Manager, ทะเบียนเลขที่ ว-204-อ-0004

Analysis / Test Report

TESTING No.0009

Lot ID: 2579573
Date Received : Sep 10, 2025
Date Reported : Sep 17, 2025
Report Number : 3389411-1

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name : Factory I Monthly
Project Location: WHA SIL

Sample Number 2579573-1
Sampled Date Sep 10, 2025 10:50 AM
Sample Description Group 2 Wastewater WW-CT
Contract ID SIL_017_2554 **Plot** 41,79,98 **Site** Siam Gypsum Industry (Saraburi) Co.,Ltd.
Location Factory 2
Date Analysis Commenced Sep 11, 2025
Condition of Sample Contained in one amber glass bottle and three plastic bottles. sample containers comply to pretreatment - preservation standards (APHA/USEPA)
Physical Property Yellow, some odour, a lot of solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2.0	20.0	≤500	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Bangkok
COD	mg/L	-	25	82	≤750	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Bangkok
pH (on site) *		-	-	7.8	5.5-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Temperature *	Degree C	-	-	29.8	≤45	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	29	≤200	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

Guideline : Standard of WHA Saraburi Industrial Land, Maximum levels for wastewater discharging to central wastewater treatment plant.
Sampling By : Panupong Sanet ทะเบียนเลขที่ ว-204-ว-0204

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

Technical Management Narin Saiseng, Supervisor, ทะเบียนเลขที่ ว-204-ว-0009
Approved by Kanokkorn Anek, Assistant General Manager, ทะเบียนเลขที่ ว-204-อ-0004

Analysis / Test Report

TESTING No.0009

Lot ID: 2579624
Date Received : Sep 09, 2025
Date Reported : Sep 16, 2025
Report Number : 3389475-1

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name : Factory I Monthly
Project Location: WHA SIL

Page 1 of 1

Sample Number	2579624-1
Sampled Date	Sep 09, 2025 11:40 AM
Sample Description	Group 2 Wastewater WW-CT
Contract ID	SIL_005_2562 **Plot** 63 **Site** Siam Hanamaruki Co.,Ltd.
Location	(ท่อ 59)
Date Analysis Commenced	Sep 10, 2025
Condition of Sample	Contained in three plastic bottles and one amber glass bottle, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property	Yellow, a lot of odour, some solid and a lot of turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2.0	181	≤500	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Bangkok
COD	mg/L	-	25	477	≤750	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
Oil & Grease	mg/L	-	3	13	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Bangkok
pH (on site) *		-	-	6.6	5.5-9.0	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	≤45	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	110	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

Guideline : Standard of WHA Saraburi Industrial Land, Maximum levels for wastewater discharging to central wastewater treatment plant.
Sampling By : Panupong Sanei ทะเบียนเลขที่ ว-204-ว-0204

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

Technical Management Siriluk P.
Siriluk Bunnak
Section Head
ทะเบียนเลขที่ ว-204-ว-0013

Approved by Kanokkorn Anek
Kanokkorn Anek
Assistant General Manager
ทะเบียนเลขที่ ว-204-ว-0004

Analysis / Test Report

TESTING No.0009

Lot ID: 2579575
Date Received : Sep 02, 2025
Date Reported : Sep 08, 2025
Report Number : 3389414-1

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name : Factory I Monthly
Project Location: WHA SIL

Page 1 of 1

Sample Number	2579575-1
Sampled Date	Sep 02, 2025 11:40 AM
Sample Description	Group 2 Wastewater WW-CT
Contract ID	SIL_020_2554 **Plot** 74 **Site** Siam NGK Technocera Co.,Ltd.
Date Analysis Commenced	Sep 03, 2025
Condition of Sample	Contained in three plastic bottles and one amber glass bottle, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property	Yellow, some odour, solid and no turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2.0	5.9	≤500	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Bangkok
COD	mg/L	-	25	50	≤750	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Bangkok
pH (on site) *		-	-	7.5	5.5-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Temperature *	Degree C	-	-	31.4	≤45	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	11	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

Guideline : Standard of WHA Saraburi Industrial Land, Maximum levels for wastewater discharging to central wastewater treatment plant.
Sampling By : Panupong Sanei ทะเบียนเลขที่ ว-204-ว-0204

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

Technical Management Siriluk P.
Siriluk Bunnak
Section Head
ทะเบียนเลขที่ ว-204-ว-0013

Approved by Kanokkorn Anek
Kanokkorn Anek
Assistant General Manager
ทะเบียนเลขที่ ว-204-ว-0004

Analysis / Test Report

TESTING No.0009

Lot ID: 2579576
Date Received : Sep 01, 2025
Date Reported : Sep 08, 2025
Report Number : 3389415-1

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name : Factory I Monthly
Project Location: WHA SIL

Page 1 of 1

Sample Number	2579576-1
Sampled Date	Sep 01, 2025 12:00 PM
Sample Description	Group 2 Wastewater WW-CT
Contract ID	SIL_021_2554 **Plot** 56 **Site** Siam Toto Ceramics Co.,Ltd.
Date Analysis Commenced	Sep 02, 2025
Condition of Sample	Contained in one amber glass bottle and three plastic bottles. sample containers comply to pretreatment - preservation standards (APHA/USEPA)
Physical Property	Yellow, a lot of odour, solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2.0	15.7	≤500	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Bangkok
COD	mg/L	-	25	117	≤750	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Bangkok
pH (on site) *		-	-	7.9	5.5-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Temperature *	Degree C	-	-	31.8	≤45	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	218	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

Guideline : Standard of WHA Saraburi Industrial Land, Maximum levels for wastewater discharging to central wastewater treatment plant.
Sampling By : Chamarong Sriborn ทะเบียนเลขที่ ว-204-ว-0149

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

Technical Management Nant Sont
Nanthawadee Sonthoon
Specialist 2
ทะเบียนเลขที่ ว-204-ว-0010

Approved by Kanokkorn Anek
Kanokkorn Anek
Assistant General Manager
ทะเบียนเลขที่ ว-204-ว-0004

Analysis / Test Report

TESTING No.0009

Lot ID: 2579594
Date Received : Sep 09, 2025
Date Reported : Sep 16, 2025
Report Number : 3389442-1

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name : Factory I Monthly
Project Location: WHA SIL

Page 1 of 1

Sample Number	2579594-1
Sampled Date	Sep 08, 2025 8:45 AM
Sample Description	Group 2 Wastewater WW-CT
Contract ID	SIL_046_2556 **Plot** 132 **Site** SIIX (Thailand) Co.,Ltd.
Date Analysis Commenced	Sep 10, 2025
Condition of Sample	Contained in three plastic bottles and one amber glass bottle, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property	Yellow, some odour, solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2.0	9.6	≤500	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Bangkok
COD	mg/L	-	25	43	≤750	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Bangkok
pH (on site) *		-	-	7.6	5.5-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Temperature *	Degree C	-	-	29.8	≤45	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	19	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

Guideline : Standard of WHA Saraburi Industrial Land, Maximum levels for wastewater discharging to central wastewater treatment plant.
Sampling By : Panupong Sanei ทะเบียนเลขที่ ว-204-ว-0204

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

Technical Management Siriluk P.
Siriluk Bunnak
Section Head
ทะเบียนเลขที่ ว-204-ว-0013

Approved by Kanokkorn Anek
Kanokkorn Anek
Assistant General Manager
ทะเบียนเลขที่ ว-204-ว-0004

Analysis / Test Report

TESTING No.0009

Lot ID: 2579626
Date Received : Sep 10, 2025
Date Reported : Sep 17, 2025
Report Number : 3389477-1

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name : Factory I Monthly
Project Location: WHA SIL

Page 1 of 1

Sample Number	2579626-1
Sampled Date	Sep 10, 2025 1:50 PM
Sample Description	Group 2 Wastewater WW-CT
Contract ID	SIL_003_2565 **Plot** 139-140 **Site** TERAHOP (THAILAND) CO., LTD.
Date Analysis Commenced	Sep 11, 2025
Condition of Sample	Contained in three plastic bottles and one amber glass bottle, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property	Yellow, a lot of odour, some solid and a lot of turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2.0	101	≤500	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Bangkok
COD	mg/L	-	25	247	≤750	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
Oil & Grease	mg/L	-	3	4	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Bangkok
pH (on site) *		-	-	7.9	5.5-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Temperature *	Degree C	-	-	30.7	≤45	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	64	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

Guideline : Standard of WHA Saraburi Industrial Land, Maximum levels for wastewater discharging to central wastewater treatment plant.
Sampling By : Panupong Sanei ทะเบียนเลขที่ ว-204-ว-0204

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

Technical Management Narin Saiseng
Narin Saiseng
Supervisor
ทะเบียนเลขที่ ว-204-ว-0009

Approved by Kanokkorn Anek
Kanokkorn Anek
Assistant General Manager
ทะเบียนเลขที่ ว-204-ว-0004

Analysis / Test Report

TESTING No.0009

Lot ID: 2579578
Date Received : Sep 10, 2025
Date Reported : Sep 17, 2025
Report Number : 3389418-1

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name : Factory I Monthly
Project Location: WHA SIL

Page 1 of 1

Sample Number	2579578-1
Sampled Date	Sep 10, 2025 1:30 PM
Sample Description	Group 2 Wastewater WW-CT
Contract ID	SIL_024_2554 **Plot** 23 **Site** Thai Beverage Can Co.,Ltd.
Location	Point 2
Date Analysis Commenced	Sep 11, 2025
Condition of Sample	Contained in one amber glass bottle and three plastic bottles. sample containers comply to pretreatment - preservation standards (APHA/USEPA)
Physical Property	Colorless, some odour, solid and no turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2.0	<2.0	≤500	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Bangkok
COD	mg/L	-	25	<25	≤750	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Bangkok
pH (on site) *		-	-	7.8	5.5-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Temperature *	Degree C	-	-	30.6	≤45	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	<5	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

Guideline : Standard of WHA Saraburi Industrial Land, Maximum levels for wastewater discharging to central wastewater treatment plant.
Sampling By : Panupong Sanei ทะเบียนเลขที่ ว-204-ว-0204

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

Technical Management Narin Saiseng
Narin Saiseng
Supervisor
ทะเบียนเลขที่ ว-204-ว-0009

Approved by Kanokkorn Anek
Kanokkorn Anek
Assistant General Manager
ทะเบียนเลขที่ ว-204-ว-0004

Analysis / Test Report

TESTING No.0009

Lot ID: 2579634
Date Received : Sep 10, 2025
Date Reported : Sep 17, 2025
Report Number : 3389484-1

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name : Factory I Monthly
Project Location: WHA SIL

Page 1 of 1

Sample Number	2579634-1
Sampled Date	Sep 10, 2025 1:40 PM
Sample Description	Group 2 Wastewater WW-CT
Contract ID	SIL_013_2566 **Plot** 25 **Site** Thai Beverage Can Co.,Ltd.
Date Analysis Commenced	Sep 11, 2025
Condition of Sample	Contained in one amber glass bottle and three plastic bottles. sample containers comply to pretreatment - preservation standards (APHA/USEPA)
Physical Property	Colorless, some odour, solid and no turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2.0	5.0	≤500	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Bangkok
COD	mg/L	-	25	38	≤750	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Bangkok
pH (on site) *		-	-	7.8	5.5-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Temperature *	Degree C	-	-	29.9	≤45	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	<5	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

Guideline : Standard of WHA Saraburi Industrial Land, Maximum levels for wastewater discharging to central wastewater treatment plant.
Sampling By : Panupong Sanei ทะเบียนเลขที่ ว-204-ว-0204

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

Technical Management Narin Saiseng
Narin Saiseng
Supervisor
ทะเบียนเลขที่ ว-204-ว-0009

Approved by Kanokkorn Anek
Kanokkorn Anek
Assistant General Manager
ทะเบียนเลขที่ ว-204-ว-0004

Analysis / Test Report

TESTING No.0009

Lot ID: 2579635
Date Received : Sep 03, 2025
Date Reported : Sep 10, 2025
Report Number : 3389485-1

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name : Factory I Monthly
Project Location: WHA SIL

Page 1 of 1

Sample Number	2579635-1
Sampled Date	Sep 03, 2025 1:30 PM
Sample Description	Group 2 Wastewater WW-CT
Contract ID	SIL_001_2567 **Plot** 136/1 **Site** Thai Inaba Foods (Thailand) Co., Ltd.
Date Analysis Commenced	Sep 04, 2025
Condition of Sample	Contained in one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property	Yellow, some odour, solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2.0	145	≤500	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Bangkok
COD	mg/L	-	25	271	≤750	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
Oil & Grease	mg/L	-	3	4	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Bangkok
pH (on site) *		-	-	7.6	5.5-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Temperature *	Degree C	-	-	32.6	≤45	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	45	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

Guideline : Standard of WHA Saraburi Industrial Land, Maximum levels for wastewater discharging to central wastewater treatment plant.
Sampling By : Panupong Sanei ทะเบียนเลขที่ ว-204-ว-0204

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

Technical Management Suwimon C.
Suwimon Chainangpeat
Scientist (3)
ทะเบียนเลขที่ ว-204-ว-0018

Approved by Kanokkorn Anek
Kanokkorn Anek
Assistant General Manager
ทะเบียนเลขที่ ว-204-ว-0004

Analysis / Test Report

TESTING No.0009

Lot ID: 2579599
Date Received : Sep 03, 2025
Date Reported : Sep 10, 2025
Report Number : 3389450-1

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name : Factory I Monthly
Project Location: WHA SIL

Page 1 of 1

Sample Number	2579599-1
Sampled Date	Sep 03, 2025 1:20 PM
Sample Description	Group 2 Wastewater WW-CT
Contract ID	SIL_056_2556 **Plot** 133 **Site** Thai Inaba Foods (Thailand) Co.,Ltd. (1st)
Date Analysis Commenced	Sep 04, 2025
Condition of Sample	Contained in one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property	Yellow, a lot of odour, solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2.0	184	≤500	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Bangkok
COD	mg/L	-	25	585	≤750	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Bangkok
pH (on site) *		-	-	7.2	5.5-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Temperature *	Degree C	-	-	37.4	≤45	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	27	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

Guideline : Standard of WHA Saraburi Industrial Land, Maximum levels for wastewater discharging to central wastewater treatment plant.
Sampling By : Panupong Sanei ทะเบียนเลขที่ ว-204-ว-0204

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

Technical Management Suwimon C.
Suwimon Chainangpeat
Scientist (3)
ทะเบียนเลขที่ ว-204-ว-0018

Approved by Kanokkorn Anek
Kanokkorn Anek
Assistant General Manager
ทะเบียนเลขที่ ว-204-ว-0004

Analysis / Test Report

TESTING No.0009

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name : Factory l Monthly
Project Location: WHA SIL

Lot ID: 2579581
Date Received : Sep 01, 2025
Date Reported : Sep 08, 2025
Report Number : 3389422-1

Page 1 of 1

Sample Number	2579581-1
Sampled Date	Sep 01, 2025 9:50 AM
Sample Description	Group 2 Wastewater WW-CT
Contract ID	SIL_026_2554 **Plot** 37,38 **Site** Thai Malaya Glass (Thailand) Co.,Ltd.
Date Analysis Commenced	Sep 02, 2025
Condition of Sample	Contained in one amber glass bottle and three plastic bottles. sample containers comply to pretreatment - preservation standards (APHA/USEPA)
Physical Property	Yellow, a lot of odour, some solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2.0	39.6	≤500	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Bangkok
COD	mg/L	-	25	128	≤750	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Bangkok
pH (on site) *		-	-	7.9	5.5-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Temperature *	Degree C	-	-	29.7	≤45	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	37	≤200	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

Guideline : Standard of WHA Saraburi Industrial Land, Maximum levels for wastewater discharging to central wastewater treatment plant.
Sampling By : Panupong Sanet

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

Technical Management Nanthawadee Somboon, Specialist 2
Approved by Kanokkorn Anek, Assistant General Manager

Analysis / Test Report

TESTING No.0009

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name : Factory l Monthly
Project Location: WHA SIL

Lot ID: 2579614
Date Received : Sep 01, 2025
Date Reported : Sep 08, 2025
Report Number : 3389465-1

Page 1 of 1

Sample Number	2579614-1
Sampled Date	Sep 01, 2025 10:30 AM
Sample Description	Group 2 Wastewater WW-CT
Contract ID	SIL_001_2558 **Plot** 45, 46,143 **Site** Thai Malaya Glass (Thailand) Co.,Ltd.
Date Analysis Commenced	Sep 02, 2025
Condition of Sample	Contained in one amber glass bottle and three plastic bottles. sample containers comply to pretreatment - preservation standards (APHA/USEPA)
Physical Property	Yellow, a lot of odour, some solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2.0	14.1	≤500	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Bangkok
COD	mg/L	-	25	105	≤750	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Bangkok
pH (on site) *		-	-	7.6	5.5-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Temperature *	Degree C	-	-	31.3	≤45	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	22	≤200	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

Guideline : Standard of WHA Saraburi Industrial Land, Maximum levels for wastewater discharging to central wastewater treatment plant.
Sampling By : Panupong Sanet

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

Technical Management Siriluk Bunnak, Section Head
Approved by Kanokkorn Anek, Assistant General Manager

Analysis / Test Report

TESTING No.0009

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name : Factory l Monthly
Project Location: WHA SIL

Lot ID: 2579665
Date Received : Sep 09, 2025
Date Reported : Sep 16, 2025
Report Number : 3389517-1

Page 1 of 2

Sample Number	2579665-1
Sampled Date	Sep 09, 2025 10:00 AM
Sample Description	Group 2 Wastewater WW-CT
Contract ID	SIL_054_2554 **Plot** 7, 141 **Site** Thai Rayon Public Limited Company
Date Analysis Commenced	Sep 10, 2025
Condition of Sample	Contained in three plastic bottles and one amber glass bottle. sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property	Yellow, some odour, solid and no turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2.0	18.6	≤500	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Bangkok
COD	mg/L	-	25	71	≤750	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
Oil & Grease *	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5520 D	Bangkok
pH (on site) *		-	-	7.6	5.5-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Sulfide *	mg/L	-	0.5	<0.5	≤1	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500-S2 (C, F)	Bangkok
Temperature *	Degree C	-	-	32.8	≤45	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	<5	≤200	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

Guideline : Standard of WHA Saraburi Industrial Land, Maximum levels for wastewater discharging to central wastewater treatment plant.
Sampling By : Panupong Sanet

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

Technical Management Tanyatorn Mongkonprawut, Supervisor
Approved by Kanokkorn Anek, Assistant General Manager

Analysis / Test Report

TESTING No.0009

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name : Factory l Monthly
Project Location: WHA SIL

Lot ID: 2579665
Date Received : Sep 09, 2025
Date Reported : Sep 16, 2025
Report Number : 3389517-1

Page 2 of 2

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

Technical Management Tanyatorn Mongkonprawut, Supervisor
Approved by Kanokkorn Anek, Assistant General Manager

Analysis / Test Report

TESTING No.0009

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name : Factory l Monthly
Project Location: WHA SIL

Lot ID: 2579621
Date Received : Sep 01, 2025
Date Reported : Sep 08, 2025
Report Number : 3389472-1

Page 1 of 1

Sample Number	2579621-1
Sampled Date	Sep 01, 2025 1:25 PM
Sample Description	Group 2 Wastewater WW-CT
Contract ID	SIL_009_2560 **Plot** 70,71,73 **Site** The Siam Cement (Taluang) Co.,Ltd.
Date Analysis Commenced	Sep 02, 2025
Condition of Sample	Contained in one amber glass bottle and three plastic bottles. sample containers comply to pretreatment - preservation standards (APHA/USEPA)
Physical Property	Yellow, a lot of odour, solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2.0	10.6	≤500	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Bangkok
COD	mg/L	-	25	107	≤750	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Bangkok
pH (on site) *		-	-	7.7	5.5-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Temperature *	Degree C	-	-	32.2	≤45	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	13	≤200	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

Guideline : Standard of WHA Saraburi Industrial Land, Maximum levels for wastewater discharging to central wastewater treatment plant.
Sampling By : Chainarong Sriborin

Remark :
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Technical Management Siriluk Bunnak, Section Head
Approved by Kanokkorn Anek, Assistant General Manager

Analysis / Test Report

TESTING No.0009

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name : Factory l Monthly
Project Location: WHA SIL

Lot ID: 2579580
Date Received : Sep 01, 2025
Date Reported : Sep 08, 2025
Report Number : 3389421-1

Page 1 of 1

Sample Number	2579580-1
Sampled Date	Sep 01, 2025 11:35 AM
Sample Description	Group 2 Wastewater WW-CT
Contract ID	SIL_027_2554 **Plot** 53,60 **Site** Tilement (Thailand) Corp.,Ltd.
Date Analysis Commenced	Sep 02, 2025
Condition of Sample	Contained in one amber glass bottle and three plastic bottles. sample containers comply to pretreatment - preservation standards (APHA/USEPA)
Physical Property	Yellow, some odour, solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2.0	58.6	≤500	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Bangkok
COD	mg/L	-	25	139	≤750	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
Oil & Grease	mg/L	-	3	4	≤10	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Bangkok
pH (on site) *		-	-	7.7	5.5-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Temperature *	Degree C	-	-	31.9	≤45	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	41	≤200	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

Guideline : Standard of WHA Saraburi Industrial Land, Maximum levels for wastewater discharging to central wastewater treatment plant.
Sampling By : Chainarong Sriborin

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

Technical Management Siriluk Bunnak, Section Head
Approved by Kanokkorn Anek, Assistant General Manager

Analysis / Test Report

TESTING No.0009

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name : Factory l Monthly
Project Location: WHA SIL

Lot ID: 2579601
Date Received : Sep 11, 2025
Date Reported : Sep 18, 2025
Report Number : 3389452-1

Page 1 of 1

Sample Number	2579601-1
Sampled Date	Sep 11, 2025 9:35 AM
Sample Description	Group 2 Wastewater WW-CT
Contract ID	SIL_061_2556 **Plot** 147 **Site** TS Tech (Thailand) Co.,Ltd.
Date Analysis Commenced	Sep 12, 2025
Condition of Sample	Contained in one amber glass bottle and three plastic bottles. sample containers comply to pretreatment - preservation standards (APHA/USEPA)
Physical Property	Yellow, a lot of odour, solid and some turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2.0	15.7	≤500	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Bangkok
COD	mg/L	-	25	101	≤750	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Bangkok
pH (on site) *		-	-	7.9	5.5-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Temperature *	Degree C	-	-	30.0	≤45	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	46	≤200	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

Guideline : Standard of WHA Saraburi Industrial Land, Maximum levels for wastewater discharging to central wastewater treatment plant.
Sampling By : Panupong Sanet

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

Technical Management Suwimon Chansangwut, Scientist (3)
Approved by Kanokkorn Anek, Assistant General Manager

Analysis / Test Report

TESTING No.0009

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name : Factory l Monthly
Project Location: WHA SIL

Lot ID: 2579568
Date Received : Sep 10, 2025
Date Reported : Sep 17, 2025
Report Number : 3389403-1

Page 1 of 1

Sample Number	2579568-1
Sampled Date	Sep 10, 2025 11:55 AM
Sample Description	Group 2 Wastewater WW-CT
Contract ID	SIL_012_2554 **Plot** 4,32 **Site** Villeroy & Boch (Thailand) Co.,Ltd
Date Analysis Commenced	Sep 11, 2025
Condition of Sample	Contained in one amber glass bottle and three plastic bottles. sample containers comply to pretreatment - preservation standards (APHA/USEPA)
Physical Property	Yellow, some odour, a lot of solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2.0	15.6	≤500	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Bangkok
COD	mg/L	-	25	50	≤750	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Bangkok
pH (on site) *		-	-	7.3	5.5-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Temperature *	Degree C	-	-	30.5	≤45	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	21	≤200	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

Guideline : Standard of WHA Saraburi Industrial Land, Maximum levels for wastewater discharging to central wastewater treatment plant.
Sampling By : Panupong Sanet

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

Technical Management Suwimon Chansangwut, Scientist (3)
Approved by Kanokkorn Anek, Assistant General Manager

Analysis / Test Report

TESTING No.0009

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name : Factory l Monthly
Project Location: WHA SIL

Lot ID: 2579604
Date Received : Sep 04, 2025
Date Reported : Sep 11, 2025
Report Number : 3389455-1

Page 1 of 1

Sample Number	2579604-1
Sampled Date	Sep 04, 2025 10:30 AM
Sample Description	Group 2 Wastewater WW-CT
Contract ID	SIL_075_2557 **Plot** E9A/1 **Site** WHA Corporation Public Limited Company
Date Analysis Commenced	Sep 04, 2025
Condition of Sample	Contained in one amber glass bottle and three plastic bottles. sample containers comply to pretreatment - preservation standards (APHA/USEPA)
Physical Property	Yellow, a lot of odour, some solid and a lot of turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2.0	20.0	≤500	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Bangkok
COD	mg/L	-	25	102	≤750	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
Oil & Grease	mg/L	-	3	4	≤10	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Bangkok
pH (on site) *		-	-	8.1	5.5-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Temperature *	Degree C	-	-	31.7	≤45	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	39	≤200	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

Guideline : Standard of WHA Saraburi Industrial Land, Maximum levels for wastewater discharging to central wastewater treatment plant.
Sampling By : Panupong Sanet

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

Technical Management Narin Saweng, Supervisor
Approved by Kanokkorn Anek, Assistant General Manager

Analysis / Test Report

TESTING No.0009

Lot ID: 2579606

Date Received : Sep 10, 2025
Date Reported : Sep 17, 2025
Report Number : 3389457-1

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name : Factory l Monthly
Project Location: WHA SIL

Sample Number	2579606-1
Sampled Date	Sep 10, 2025 11:05 AM
Sample Description	Group 2 Wastewater WW-CT
Contract ID	SIL_037_2556 **Plot** 151-152 **Site** WHA Corporation Public Limited Company
Date Analysis Commenced	Sep 11, 2025
Condition of Sample	Contained in one amber glass bottle and three plastic bottles: sample containers comply to pretreatment - preservation standards (APHA/USEPA)
Physical Property	Yellow, some odour, a lot of solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2.0	7.4	≤500	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Bangkok
COD	mg/L	-	25	60	≤750	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Bangkok
pH (on site) *		-	-	7.6	5.5-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Temperature *	Degree C	-	-	29.0	≤45	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	38	≤200	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

Guideline : Standard of WHA Saraburi Industrial Land, Maximum levels for wastewater discharging to central wastewater treatment plant.
Sampling By : Panupong Saenot ทะเบียนเลขที่ ว-204-ว-0204

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

Technical Management Narin Saeeng, Supervisor, ทะเบียนเลขที่ ว-204-ว-0009
Approved by Kanokkorn Anek, Assistant General Manager, ทะเบียนเลขที่ ว-204-ว-0004

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Analysis / Test Report

TESTING No.0009

Lot ID: 2579585

Date Received : Sep 10, 2025
Date Reported : Sep 17, 2025
Report Number : 3389429-1

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name : Factory l Monthly
Project Location: WHA SIL

Sample Number	2579585-1
Sampled Date	Sep 10, 2025 11:00 AM
Sample Description	Group 2 Wastewater WW-CT
Contract ID	SIL_074_2557 **Plot** 153-154 **Site** WHA Corporation Public Limited Company
Date Analysis Commenced	Sep 11, 2025
Condition of Sample	Contained in one amber glass bottle and three plastic bottles. sample containers comply to pretreatment - preservation standards (APHA/USEPA)
Physical Property	Yellow, a lot of odour, some solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2.0	98.2	≤500	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Bangkok
COD	mg/L	-	25	168	≤750	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Bangkok
pH (on site) *		-	-	8.0	5.5-9.0	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	≤45	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	60	≤200	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

Guideline : Standard of WHA Saraburi Industrial Land, Maximum levels for wastewater discharging to central wastewater treatment plant.
Sampling By : Panupong Saenot ทะเบียนเลขที่ ว-204-ว-0204

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

Technical Management Narin Saeeng, Supervisor, ทะเบียนเลขที่ ว-204-ว-0009
Approved by Kanokkorn Anek, Assistant General Manager, ทะเบียนเลขที่ ว-204-ว-0004

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Analysis / Test Report

TESTING No.0009

Lot ID: 2579586

Date Received : Sep 09, 2025
Date Reported : Sep 16, 2025
Report Number : 3389430-1

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name : Factory l Monthly
Project Location: WHA SIL

Sample Number	2579586-1
Sampled Date	Sep 09, 2025 10:30 AM
Sample Description	Group 2 Wastewater WW-CT
Contract ID	SIL_069_2557 **Plot** 27(F) **Site** World Quality Co.,Ltd.
Location	Point 1
Date Analysis Commenced	Sep 10, 2025
Condition of Sample	Contained in three plastic bottles and one amber glass bottle, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property	Yellow, some odour, solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2.0	123	≤500	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Bangkok
COD	mg/L	-	25	208	≤750	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
Oil & Grease	mg/L	-	3	5	≤10	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Bangkok
pH (on site) *		-	-	7.5	5.5-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Temperature *	Degree C	-	-	30.5	≤45	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	43	≤200	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

Guideline : Standard of WHA Saraburi Industrial Land, Maximum levels for wastewater discharging to central wastewater treatment plant.
Sampling By : Panupong Saenot ทะเบียนเลขที่ ว-204-ว-0204

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

Technical Management Siriluk Bunnak, Section Head, ทะเบียนเลขที่ ว-204-ว-0013
Approved by Kanokkorn Anek, Assistant General Manager, ทะเบียนเลขที่ ว-204-ว-0004

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Analysis Report

TESTING No.0009

Work Order	**BK2534448**	Date Received	Oct 08, 2025
Client	WHA Utilities and Power Public Company Limited, 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported	Oct 16, 2025
Project	WHA SIL	Report Number	BK2534448-AA (1)
Project Location	Air Liquide (Thailand) Co.,Ltd._1_WWT_001_2564		

Sample Number	BK2534448-001
Sampled Date	Oct 08, 2025 10:00 AM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	Air Liquide (Thailand) Co.,Ltd.
Contract ID	WWT_001_2564
Plot	1
Date of Analysis	Oct 08, 2025
Sampled by	Panupong Saenot (ว-204-ว-0204)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, some odour, some solids, no turbidity

Analytical Results

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	5.9	≤500	EN0044	Bangkok
COD	mg/L	-	25	36	≤750	EN0046	Bangkok
Oil & Grease	mg/L	-	3	<3	≤10	EN0048	Bangkok
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	8.0	5.5-9	EN0020	Bangkok
Temperature *	°C	-	-	31.0	≤45	EN0097	Bangkok
Total Suspended Solids	mg/L	-	5	8	≤200	EN0102	Bangkok

Guideline : Industrial Land on Criteria of wastewater discharging to central wastewater treatment plant
Comment : Sampling is not included in scope of accreditation ISO/IEC 17025
Key :
- 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

Signatories
Siriluk Bunnak, Section Head, ว-204-ว-0013
Kanokkorn Anek, Assistant General Manager, ว-204-ว-0004

ALS Laboratory Group (Thailand) Co.,Ltd. Bangkok Life Sciences

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Analysis Report

TESTING No.0009

Work Order	**BK2534448**	Date Received	Oct 08, 2025
Client	WHA Utilities and Power Public Company Limited, 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported	Oct 16, 2025
Project	WHA SIL	Report Number	BK2534448-AA (1)
Project Location	Air Liquide (Thailand) Co.,Ltd._1_WWT_001_2564		

Sample Number	BK2534448-001
Sampled Date	Oct 08, 2025 10:00 AM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	Air Liquide (Thailand) Co.,Ltd.
Contract ID	WWT_001_2564
Plot	1
Date of Analysis	Oct 08, 2025
Sampled by	Panupong Saenot (ว-204-ว-0204)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, some odour, some solids, no turbidity

Brief Method Summaries
The methods in the analysis report are short format, refer to full test methods in accordance with the ISO/IEC 17025 certificate no. specified in the analysis report.

Method	Testing Lab	Method Descriptions
EN0020	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0097	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B
EN0102	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

——— END OF REPORT ———

Signatories
Siriluk Bunnak, Section Head, ว-204-ว-0013
Kanokkorn Anek, Assistant General Manager, ว-204-ว-0004

ALS Laboratory Group (Thailand) Co.,Ltd. Bangkok Life Sciences

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Analysis Report

TESTING No.0009

Work Order	**BK2534453**	Date Received	Oct 01, 2025
Client	WHA Utilities and Power Public Company Limited, 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported	Oct 16, 2025
Project	WHA SIL	Report Number	BK2534453-AA (4)
Project Location	Daiyu Seal (Thailand) Co.,Ltd._93D_WWT_043_2566		

Sample Number	BK2534453-001
Sampled Date	Oct 01, 2025 10:00 AM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	Daiyu Seal (Thailand) Co.,Ltd.
Contract ID	WWT_043_2566
Plot	93D
Date of Analysis	Oct 02, 2025
Sampled by	Panupong Saenot (ว-204-ว-0204)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, some odour, lots of solids, no turbidity

Analytical Results

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	4.3	≤500	EN0044	Bangkok
COD	mg/L	-	25	<25	≤750	EN0046	Bangkok
Oil & Grease	mg/L	-	3	<3	≤10	EN0048	Bangkok
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.8	5.5-9	EN0020	Bangkok
Temperature *	°C	-	-	30.1	≤45	EN0097	Bangkok
Total Suspended Solids	mg/L	-	5	22	≤200	EN0102	Bangkok

Guideline : Industrial Land on Criteria of wastewater discharging to central wastewater treatment plant
Comment : Sampling is not included in scope of accreditation ISO/IEC 17025
Key :
- 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

Signatories
Siriluk Bunnak, Section Head, ว-204-ว-0013
Kanokkorn Anek, Assistant General Manager, ว-204-ว-0004

ALS Laboratory Group (Thailand) Co.,Ltd. Bangkok Life Sciences

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Analysis Report

TESTING No.0009

Work Order	**BK2534453**	Date Received	Oct 01, 2025
Client	WHA Utilities and Power Public Company Limited, 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported	Oct 16, 2025
Project	WHA SIL	Report Number	BK2534453-AA (4)
Project Location	Daiyu Seal (Thailand) Co.,Ltd._93D_WWT_043_2566		

Sample Number	BK2534453-001
Sampled Date	Oct 01, 2025 10:00 AM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	Daiyu Seal (Thailand) Co.,Ltd.
Contract ID	WWT_043_2566
Plot	93D
Date of Analysis	Oct 02, 2025
Sampled by	Panupong Saenot (ว-204-ว-0204)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, some odour, lots of solids, no turbidity

Brief Method Summaries
The methods in the analysis report are short format, refer to full test methods in accordance with the ISO/IEC 17025 certificate no. specified in the analysis report.

Method	Testing Lab	Method Descriptions
EN0020	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0097	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B
EN0102	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

——— END OF REPORT ———

Signatories
Siriluk Bunnak, Section Head, ว-204-ว-0013
Kanokkorn Anek, Assistant General Manager, ว-204-ว-0004

ALS Laboratory Group (Thailand) Co.,Ltd. Bangkok Life Sciences

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Analysis Report

TESTING No.0009

Work Order	**BK2534454**	Date Received	Oct 01, 2025
Client	WHA Utilities and Power Public Company Limited, 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported	Oct 16, 2025
Project	WHA SIL	Report Number	BK2534454-AA (2)
Project Location	D-HAPPENNING COMPANY LIMITED_48,84_WWT_004_2560		

Sample Number	BK2534454-001
Sampled Date	Oct 01, 2025 09:55 AM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	D-HAPPENNING COMPANY LIMITED
Contract ID	WWT_004_2560
Plot	48,84
Date of Analysis	Oct 02, 2025
Sampled by	Panupong Saenot (ว-204-ว-0204)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, some odour, some solids, no turbidity

Analytical Results

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	<2.0	≤500	EN0044	Bangkok
COD	mg/L	-	25	<25	≤750	EN0046	Bangkok
Oil & Grease	mg/L	-	3	<3	≤10	EN0048	Bangkok
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	8.0	5.5-9	EN0020	Bangkok
Temperature *	°C	-	-	28.1	≤45	EN0097	Bangkok
Total Suspended Solids	mg/L	-	5	37	≤200	EN0102	Bangkok

Guideline : Industrial Land on Criteria of wastewater discharging to central wastewater treatment plant
Comment : Sampling is not included in scope of accreditation ISO/IEC 17025
Key :
- 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

Signatories
Siriluk Bunnak, Section Head, ว-204-ว-0013
Kanokkorn Anek, Assistant General Manager, ว-204-ว-0004

ALS Laboratory Group (Thailand) Co.,Ltd. Bangkok Life Sciences

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Analysis Report

TESTING No.0009

Work Order	**BK2534454**	Date Received	Oct 01, 2025
Client	WHA Utilities and Power Public Company Limited, 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported	Oct 16, 2025
Project	WHA SIL	Report Number	BK2534454-AA (2)
Project Location	D-HAPPENNING COMPANY LIMITED_48,84_WWT_004_2560		

Sample Number	BK2534454-001
Sampled Date	Oct 01, 2025 09:55 AM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	D-HAPPENNING COMPANY LIMITED
Contract ID	WWT_004_2560
Plot	48,84
Date of Analysis	Oct 02, 2025
Sampled by	Panupong Saenot (ว-204-ว-0204)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, some odour, some solids, no turbidity

Brief Method Summaries
The methods in the analysis report are short format, refer to full test methods in accordance with the ISO/IEC 17025 certificate no. specified in the analysis report.

Method	Testing Lab	Method Descriptions
EN0020	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0097	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B
EN0102	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

——— END OF REPORT ———

Signatories
Siriluk Bunnak, Section Head, ว-204-ว-0013
Kanokkorn Anek, Assistant General Manager, ว-204-ว-0004

ALS Laboratory Group (Thailand) Co.,Ltd. Bangkok Life Sciences

Analysis Report

TESTING No.0009

Work Order	BK2534455	Date Received	Oct 01, 2025
Client	WHA Utilities and Power Public Company Limited, 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported	Oct 09, 2025
Project	WHA SIL	Report Number	BK2534455-AA (1)
Project Location	D-Rubber Products Co.,Ltd._54_WWT_003_2564		

Sample Number	BK2534455-001
Sampled Date	Oct 01, 2025 09:00 AM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	D-Rubber Products Co.,Ltd.
Contract ID	WWT_003_2564
Plot	54
Date of Analysis	Oct 02, 2025
Sampled by	Pichai Boonyong (1-204-s-0062)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H_2SO_4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, some odour, some solids, turbid

Analytical Results

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	230	≤500	EN0044	Bangkok
COD	mg/L	-	25	579	≤750	EN0046	Bangkok
Oil & Grease	mg/L	-	3	<3	≤10	EN0048	Bangkok
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.1	5.5-9	EN0020	Bangkok
Temperature *	°C	-	-	36.7	≤40	EN0097	Bangkok
Total Suspended Solids	mg/L	-	5	43	≤200	EN0102	Bangkok

Guideline : Industrial Land on Criteria of wastewater discharging to central wastewater treatment plant

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

Key :
- 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

Signatories

Sirilak Bunnak, Section Head, 1-204-s-0013 — Kanokkorn Anek, Assistant General Manager, 1-204-e-0004

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

Analysis Report

TESTING No.0009

Work Order	BK2534455	Date Received	Oct 01, 2025
Client	WHA Utilities and Power Public Company Limited, 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported	Oct 09, 2025
Project	WHA SIL	Report Number	BK2534455-AA (1)
Project Location	D-Rubber Products Co.,Ltd._54_WWT_003_2564		

Sample Number	BK2534455-001
Sampled Date	Oct 01, 2025 09:00 AM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	D-Rubber Products Co.,Ltd.
Contract ID	WWT_003_2564
Plot	54
Date of Analysis	Oct 02, 2025
Sampled by	Pichai Boonyong (1-204-s-0062)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H_2SO_4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, some odour, some solids, turbid

Brief Method Summaries

The methods in the analysis report are short format, refer to full test methods in accordance with the ISO/IEC 17025 certificate no. specified in the analysis report.

Method	Testing Lab	Method Descriptions
EN0020	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0097	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B
EN0102	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

——— END OF REPORT ———

Signatories

Sirilak Bunnak, Section Head, 1-204-s-0013 — Kanokkorn Anek, Assistant General Manager, 1-204-e-0004

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Analysis Report

TESTING No.0009

Work Order	BK2534458	Date Received	Oct 01, 2025
Client	WHA Utilities and Power Public Company Limited, 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported	Oct 18, 2025
Project	WHA SIL	Report Number	BK2534458-AA (2)
Project Location	DSG International (Thailand) PLC._39_WWT_004_2564		

Sample Number	BK2534458-001
Sampled Date	Oct 01, 2025 11:40 AM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	DSG International (Thailand) PLC.
Contract ID	WWT_004_2564
Plot	39
Date of Analysis	Oct 02, 2025
Sampled by	Pichai Boonyong (1-204-s-0062)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H_2SO_4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, some odour, some solids, no turbidity

Analytical Results

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	4.2	≤500	EN0044	Bangkok
COD	mg/L	-	25	28	≤750	EN0046	Bangkok
Oil & Grease	mg/L	-	3	<3	≤10	EN0048	Bangkok
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.4	5.5-9	EN0020	Bangkok
Temperature *	°C	-	-	27.5	≤40	EN0097	Bangkok
Total Suspended Solids	mg/L	-	5	7	≤200	EN0102	Bangkok

Guideline : Industrial Land on Criteria of wastewater discharging to central wastewater treatment plant

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

Key :
- 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

Signatories

Sirilak Bunnak, Section Head, 1-204-s-0013 — Kanokkorn Anek, Assistant General Manager, 1-204-e-0004

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Analysis Report

TESTING No.0009

Work Order	BK2534458	Date Received	Oct 01, 2025
Client	WHA Utilities and Power Public Company Limited, 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported	Oct 18, 2025
Project	WHA SIL	Report Number	BK2534458-AA (2)
Project Location	DSG International (Thailand) PLC._39_WWT_004_2564		

Sample Number	BK2534458-001
Sampled Date	Oct 01, 2025 11:40 AM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	DSG International (Thailand) PLC.
Contract ID	WWT_004_2564
Plot	39
Date of Analysis	Oct 02, 2025
Sampled by	Pichai Boonyong (1-204-s-0062)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H_2SO_4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, some odour, some solids, no turbidity

Brief Method Summaries

The methods in the analysis report are short format, refer to full test methods in accordance with the ISO/IEC 17025 certificate no. specified in the analysis report.

Method	Testing Lab	Method Descriptions
EN0020	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0097	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B
EN0102	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

——— END OF REPORT ———

Signatories

Sirilak Bunnak, Section Head, 1-204-s-0013 — Kanokkorn Anek, Assistant General Manager, 1-204-e-0004

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Analysis Report

TESTING No.0009

Work Order	BK2534460	Date Received	Oct 01, 2025
Client	WHA Utilities and Power Public Company Limited, 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported	Oct 18, 2025
Project	WHA SIL	Report Number	BK2534460-AA (2)
Project Location	FTN (Saraburi) Co.,Ltd._148_WWT_031_2566		

Sample Number	BK2534460-001
Sampled Date	Oct 01, 2025 01:10 PM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	FTN (Saraburi) Co.,Ltd.
Contract ID	WWT_031_2566
Plot	148
Date of Analysis	Oct 02, 2025
Sampled by	Pichai Boonyong (1-204-s-0062)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H_2SO_4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, some odour, some solids, no turbidity

Analytical Results

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	3.8	≤500	EN0044	Bangkok
COD	mg/L	-	25	<25	≤750	EN0046	Bangkok
Oil & Grease	mg/L	-	3	<3	≤10	EN0048	Bangkok
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.3	5.5-9	EN0020	Bangkok
Temperature *	°C	-	-	32.5	≤40	EN0097	Bangkok
Total Suspended Solids	mg/L	-	5	5	≤200	EN0102	Bangkok

Guideline : Industrial Land on Criteria of wastewater discharging to central wastewater treatment plant

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

Key :
- 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

Signatories

Sirilak Bunnak, Section Head, 1-204-s-0013 — Kanokkorn Anek, Assistant General Manager, 1-204-e-0004

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Analysis Report

TESTING No.0009

Work Order	BK2534460	Date Received	Oct 01, 2025
Client	WHA Utilities and Power Public Company Limited, 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported	Oct 18, 2025
Project	WHA SIL	Report Number	BK2534460-AA (2)
Project Location	FTN (Saraburi) Co.,Ltd._148_WWT_031_2566		

Sample Number	BK2534460-001
Sampled Date	Oct 01, 2025 01:10 PM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	FTN (Saraburi) Co.,Ltd.
Contract ID	WWT_031_2566
Plot	148
Date of Analysis	Oct 02, 2025
Sampled by	Pichai Boonyong (1-204-s-0062)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H_2SO_4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, some odour, some solids, no turbidity

Brief Method Summaries

The methods in the analysis report are short format, refer to full test methods in accordance with the ISO/IEC 17025 certificate no. specified in the analysis report.

Method	Testing Lab	Method Descriptions
EN0020	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0097	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B
EN0102	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

——— END OF REPORT ———

Signatories

Sirilak Bunnak, Section Head, 1-204-s-0013 — Kanokkorn Anek, Assistant General Manager, 1-204-e-0004

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Analysis Report

TESTING No.0009

Work Order	BK2534461	Date Received	Oct 08, 2025
Client	WHA Utilities and Power Public Company Limited, 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported	Oct 16, 2025
Project	WHA SIL	Report Number	BK2534461-AA
Project Location	Fujikoki Corporation_77,78_WWT_006_2564		

Sample Number	BK2534461-001
Sampled Date	Oct 08, 2025 11:20 AM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	Fujikoki Corporation
Contract ID	WWT_006_2564
Plot	77,78
Date of Analysis	Oct 09, 2025
Sampled by	Panupong Saenoi (1-204-s-0204)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H_2SO_4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, some odour, some solids, turbid

Analytical Results

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	8.3	≤500	EN0044	Bangkok
COD	mg/L	-	25	54	≤750	EN0046	Bangkok
Oil & Grease	mg/L	-	3	<3	≤10	EN0048	Bangkok
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.6	5.5-9	EN0020	Bangkok
Temperature *	°C	-	-	30.6	≤40	EN0097	Bangkok
Total Suspended Solids	mg/L	-	5	18	≤200	EN0102	Bangkok

Guideline : Industrial Land on Criteria of wastewater discharging to central wastewater treatment plant

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

Key :
- 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

Signatories

Sirilak Bunnak, Section Head, 1-204-s-0013 — Kanokkorn Anek, Assistant General Manager, 1-204-e-0004

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

Analysis Report

TESTING No.0009

Work Order	BK2534461	Date Received	Oct 08, 2025
Client	WHA Utilities and Power Public Company Limited, 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported	Oct 16, 2025
Project	WHA SIL	Report Number	BK2534461-AA
Project Location	Fujikoki Corporation_77,78_WWT_006_2564		

Sample Number	BK2534461-001
Sampled Date	Oct 08, 2025 11:20 AM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	Fujikoki Corporation
Contract ID	WWT_006_2564
Plot	77,78
Date of Analysis	Oct 09, 2025
Sampled by	Panupong Saenoi (1-204-s-0204)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H_2SO_4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, some odour, some solids, turbid

Brief Method Summaries

The methods in the analysis report are short format, refer to full test methods in accordance with the ISO/IEC 17025 certificate no. specified in the analysis report.

Method	Testing Lab	Method Descriptions
EN0020	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0097	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B
EN0102	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

——— END OF REPORT ———

Signatories

Sirilak Bunnak, Section Head, 1-204-s-0013 — Kanokkorn Anek, Assistant General Manager, 1-204-e-0004

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Analysis Report

TESTING No.0009

Work Order	BK2534465	Date Received	Oct 08, 2025
Client	WHA Utilities and Power Public Company Limited, 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported	Oct 16, 2025
Project	WHA SIL	Report Number	BK2534465-AA
Project Location	Guardian Industries Corp Ltd._2_WWT_008_2564		

Sample Number	BK2534465-001
Sampled Date	Oct 08, 2025 09:35 AM
Sample Name	Group 2 Wastewater WW-CT : Point 1
Sampling Site	Guardian Industries Corp Ltd.
Contract ID	WWT_008_2564
Plot	2
Date of Analysis	Oct 09, 2025
Sampled by	Panupong Saenoi (1-204-s-0204)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H_2SO_4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, some odour, some solids, no turbidity

Analytical Results

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	<2.0	≤500	EN0044	Bangkok
COD	mg/L	-	25	<25	≤750	EN0046	Bangkok
Oil & Grease	mg/L	-	3	<3	≤10	EN0048	Bangkok
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	8.0	5.5-9	EN0020	Bangkok
Temperature *	°C	-	-	25.8	≤45	EN0097	Bangkok
Total Suspended Solids	mg/L	-	5	5	≤200	EN0102	Bangkok

Guideline : Industrial Land on Criteria of wastewater discharging to central wastewater treatment plant

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

Key :
- 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

Signatories

Sirilak Bunnak, Section Head, 1-204-s-0013 — Kanokkorn Anek, Assistant General Manager, 1-204-e-0004

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ALS

Analysis Report

TESTING No.0009

Work Order	BK2534465	Date Received :	Oct 08, 2025
Client	WHA Utilities and Power Public Company Limited 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported :	Oct 16, 2025
		Report Number :	BK2534465-AA
Project	WHA SIL		
Project Location	Guardian Industries Corp Ltd._2_WWT_006_2564		

Sample Number	BK2534465-001
Sampled Date	Oct 08, 2025 09:35 AM
Sample Name	Group 2 Wastewater WW-CT : Point 1
Sampling Site	Guardian Industries Corp Ltd.
Contract ID	WWT_006_2564
Plot	2
Date of Analysis	Oct 09, 2025
Sampled by	Panupong Saenoi (1-204-c-0204)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, some odour, some solids, no turbidity

Brief Method Summaries

The methods in the analysis report are short format, refer to full test methods in accordance with the ISO/IEC 17025 certificate no. specified in the analysis report.

Method	Testing Lab	Method Descriptions
EN0020	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0048	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0045	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0097	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B
EN0102	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

——— END OF REPORT ———

Signatories

Sirilak Burnak, Section Head, 1-204-c-0013 | Kanokkorn Anek, Assistant General Manager, 1-204-e-0004

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ALS

Analysis Report

TESTING No.0009

Work Order	BK2534466	Date Received :	Oct 08, 2025
Client	WHA Utilities and Power Public Company Limited 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported :	Oct 16, 2025
		Report Number :	BK2534466-AA
Project	WHA SIL		
Project Location	Guardian Industries Corp Ltd._2_WWT_007_2564		

Sample Number	BK2534466-001
Sampled Date	Oct 08, 2025 09:40 AM
Sample Name	Group 2 Wastewater WW-CT : Point 2
Sampling Site	Guardian Industries Corp Ltd.
Contract ID	WWT_007_2564
Plot	2
Date of Analysis	Oct 09, 2025
Sampled by	Panupong Saenoi (1-204-c-0204)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, some odour, some solids, no turbidity

Analytical Results

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	15.2	≤500	EN0044	Bangkok
COD	mg/L	-	25	55	≤750	EN0048	Bangkok
Oil & Grease	mg/L	-	3	5	≤10	EN0045	Bangkok
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.8	5.5-9	EN0020	Bangkok
Temperature *	°C	-	-	30.9	≤40	EN0097	Bangkok
Total Suspended Solids	mg/L	-	5	22	≤200	EN0102	Bangkok

Guideline : Industrial Land on Criteria of wastewater discharging to central wastewater treatment plant
Comment : Sampling is not included in scope of accreditation ISO/IEC 17025
Key :
- 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

Signatories

Sirilak Burnak, Section Head, 1-204-c-0013 | Kanokkorn Anek, Assistant General Manager, 1-204-e-0004

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ALS

Analysis Report

TESTING No.0009

Work Order	BK2534466	Date Received :	Oct 08, 2025
Client	WHA Utilities and Power Public Company Limited 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported :	Oct 16, 2025
		Report Number :	BK2534466-AA
Project	WHA SIL		
Project Location	Guardian Industries Corp Ltd._2_WWT_007_2564		

Sample Number	BK2534466-001
Sampled Date	Oct 08, 2025 09:40 AM
Sample Name	Group 2 Wastewater WW-CT : Point 2
Sampling Site	Guardian Industries Corp Ltd.
Contract ID	WWT_007_2564
Plot	2
Date of Analysis	Oct 09, 2025
Sampled by	Panupong Saenoi (1-204-c-0204)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, some odour, some solids, no turbidity

Brief Method Summaries

The methods in the analysis report are short format, refer to full test methods in accordance with the ISO/IEC 17025 certificate no. specified in the analysis report.

Method	Testing Lab	Method Descriptions
EN0020	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0048	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0045	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0097	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B
EN0102	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

——— END OF REPORT ———

Signatories

Sirilak Burnak, Section Head, 1-204-c-0013 | Kanokkorn Anek, Assistant General Manager, 1-204-e-0004

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

ALS

Analysis Report

TESTING No.0009

Work Order	BK2534467	Date Received :	Oct 08, 2025
Client	WHA Utilities and Power Public Company Limited 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported :	Oct 16, 2025
		Report Number :	BK2534467-AA
Project	WHA SIL		
Project Location	Guardian Industries Corp Ltd._2_WWT_008_2564		

Sample Number	BK2534467-001
Sampled Date	Oct 08, 2025 09:30 AM
Sample Name	Group 2 Wastewater WW-CT : Point 3
Sampling Site	Guardian Industries Corp Ltd.
Contract ID	WWT_008_2564
Plot	2
Date of Analysis	Oct 08, 2025
Sampled by	Panupong Saenoi (1-204-c-0204)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, some odour, some solids, no turbidity

Analytical Results

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	18.8	≤500	EN0044	Bangkok
COD	mg/L	-	25	120	≤750	EN0048	Bangkok
Oil & Grease	mg/L	-	3	<3	≤10	EN0045	Bangkok
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.7	5.5-9	EN0020	Bangkok
Temperature *	°C	-	-	31.0	≤40	EN0097	Bangkok
Total Suspended Solids	mg/L	-	5	11	≤200	EN0102	Bangkok

Guideline : Industrial Land on Criteria of wastewater discharging to central wastewater treatment plant
Comment : Sampling is not included in scope of accreditation ISO/IEC 17025
Key :
- 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

Signatories

Sirilak Burnak, Section Head, 1-204-c-0013 | Kanokkorn Anek, Assistant General Manager, 1-204-e-0004

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ALS

Analysis Report

TESTING No.0009

Work Order	BK2534467	Date Received :	Oct 08, 2025
Client	WHA Utilities and Power Public Company Limited 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported :	Oct 16, 2025
		Report Number :	BK2534467-AA
Project	WHA SIL		
Project Location	Guardian Industries Corp Ltd._2_WWT_008_2564		

Sample Number	BK2534467-001
Sampled Date	Oct 08, 2025 09:30 AM
Sample Name	Group 2 Wastewater WW-CT : Point 3
Sampling Site	Guardian Industries Corp Ltd.
Contract ID	WWT_008_2564
Plot	2
Date of Analysis	Oct 08, 2025
Sampled by	Panupong Saenoi (1-204-c-0204)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, some odour, some solids, no turbidity

Brief Method Summaries

The methods in the analysis report are short format, refer to full test methods in accordance with the ISO/IEC 17025 certificate no. specified in the analysis report.

Method	Testing Lab	Method Descriptions
EN0020	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0048	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0045	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0097	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B
EN0102	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

——— END OF REPORT ———

Signatories

Sirilak Burnak, Section Head, 1-204-c-0013 | Kanokkorn Anek, Assistant General Manager, 1-204-e-0004

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

ALS

Analysis Report

TESTING No.0009

Work Order	BK2534468	Date Received :	Oct 09, 2025
Client	WHA Utilities and Power Public Company Limited 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported :	Oct 17, 2025
		Report Number :	BK2534468-AA
Project	WHA SIL		
Project Location	Gulf JP NK2 Co.,Ltd._86_WWT_072_2567		

Sample Number	BK2534468-001
Sampled Date	Oct 09, 2025 09:20 AM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	Gulf JP NK2 Co.,Ltd.
Contract ID	WWT_072_2567
Plot	86
Date of Analysis	Oct 10, 2025
Sampled by	Panupong Saenoi (1-204-c-0204)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet data, 1x Plastic Bottle - Preserved with NaOH, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, some odour, some solids, no turbidity

Analytical Results

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	<2.0	≤500	EN0044	Bangkok
COD	mg/L	-	25	34	≤750	EN0048	Bangkok
Oil & Grease	mg/L	-	3	<3	≤10	EN0045	Bangkok
Metals and Major Cations - Total							
Hexavalent Chromium	mg/L	0.003	0.01	Not Detected	≤0.25	ME0006	Bangkok
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.9	5.5-9	EN0020	Bangkok
Temperature *	°C	-	-	30.5	≤45	EN0097	Bangkok
Total Dissolved Solids at 180°C	mg/L	-	5	1300	≤3000	EN0100	Bangkok
Total Suspended Solids	mg/L	-	5	13	≤200	EN0102	Bangkok

Guideline : Industrial Land on Criteria of wastewater discharging to central wastewater treatment plant
Comment : Sampling is not included in scope of accreditation ISO/IEC 17025
Key :
- 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

Signatories

Sawitree Noisungnoen, Manager, 1-204-c-0007 | Kanokkorn Anek, Assistant General Manager, 1-204-e-0004

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ALS

Analysis Report

TESTING No.0009

Work Order	BK2534468	Date Received :	Oct 09, 2025
Client	WHA Utilities and Power Public Company Limited 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported :	Oct 17, 2025
		Report Number :	BK2534468-AA
Project	WHA SIL		
Project Location	Gulf JP NK2 Co.,Ltd._86_WWT_072_2567		

Sample Number	BK2534468-001
Sampled Date	Oct 09, 2025 09:20 AM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	Gulf JP NK2 Co.,Ltd.
Contract ID	WWT_072_2567
Plot	86
Date of Analysis	Oct 10, 2025
Sampled by	Panupong Saenoi (1-204-c-0204)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet data, 1x Plastic Bottle - Preserved with NaOH, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, some odour, some solids, no turbidity

Brief Method Summaries

The methods in the analysis report are short format, refer to full test methods in accordance with the ISO/IEC 17025 certificate no. specified in the analysis report.

Method	Testing Lab	Method Descriptions
EN0020	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0048	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0045	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0097	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B
EN0100	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C
EN0102	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D
ME0006	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3500-Cr (B)

——— END OF REPORT ———

Signatories

Sawitree Noisungnoen, Manager, 1-204-c-0007 | Kanokkorn Anek, Assistant General Manager, 1-204-e-0004

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ALS

Analysis Report

TESTING No.0009

Work Order	BK2534468	Date Received :	Oct 09, 2025
Client	WHA Utilities and Power Public Company Limited 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported :	Oct 17, 2025
		Report Number :	BK2534468-AB
Project	WHA SIL		
Project Location	Gulf JP NK2 Co.,Ltd._86_WWT_072_2567		

Sample Number	BK2534468-001
Sampled Date	Oct 09, 2025 09:20 AM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	Gulf JP NK2 Co.,Ltd.
Contract ID	WWT_072_2567
Plot	86
Date of Analysis	Oct 10, 2025
Sampled by	Panupong Saenoi
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet data, 1x Plastic Bottle - Preserved with NaOH, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, some odour, some solids, no turbidity

Analytical Results

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Physical and Aggregate Properties							
Conductivity at 25 °C	µS/cm	-	5.00	2100	-	EN0062	Bangkok

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

Brief Method Summaries

The methods in the analysis report are short format, refer to full test methods in accordance with the ISO/IEC 17025 certificate no. specified in the analysis report.

Method	Testing Lab	Method Descriptions
EN0062	Bangkok	Based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2510B

——— END OF REPORT ———

Signatories

Sirilak Burnak, Section Head

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

ALS

Analysis Report

TESTING No.0009

Work Order	BK2534469	Date Received :	Oct 08, 2025
Client	WHA Utilities and Power Public Company Limited 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported :	Oct 16, 2025
		Report Number :	BK2534469-AA
Project	WHA SIL		
Project Location	Gulf NPM Co.,Ltd._131_WWT_004_2562		

Sample Number	BK2534469-001
Sampled Date	Oct 08, 2025 09:15 AM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	Gulf NPM Co.,Ltd.
Contract ID	WWT_004_2562
Plot	131
Date of Analysis	Oct 09, 2025
Sampled by	Panupong Saenoi (1-204-c-0204)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, some odour, some solids, no turbidity

Analytical Results

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	2.6	≤500	EN0044	Bangkok
COD	mg/L	-	25	80	≤750	EN0048	Bangkok
Oil & Grease	mg/L	-	3	<3	≤10	EN0045	Bangkok
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	8.1	5.5-9	EN0020	Bangkok
Temperature *	°C	-	-	29.9	≤45	EN0097	Bangkok
Total Dissolved Solids at 180°C	mg/L	-	5	2284	≤3000	EN0100	Bangkok
Total Suspended Solids	mg/L	-	5	8	≤200	EN0102	Bangkok

Guideline : Industrial Land on Criteria of wastewater discharging to central wastewater treatment plant
Comment : Sampling is not included in scope of accreditation ISO/IEC 17025
Key :
- 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

Signatories

Sirilak Burnak, Section Head, 1-204-c-0013 | Kanokkorn Anek, Assistant General Manager, 1-204-e-0004

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

ALS

TESTING No.0009

Analysis Report

Work Order	BK2534469	Date Received :	Oct 08, 2025
Client	WHA Utilities and Power Public Company Limited 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported :	Oct 16, 2025
		Report Number :	BK2534469-AA
Project	WHA SIL		
Project Location	Gulf NPM Co.,Ltd._131_WWT_004_2562		

Sample Number	BK2534469-001
Sampled Date	Oct 08, 2025 09:10 AM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	Gulf NPM Co.,Ltd.
Contract ID	WWT_004_2562
Plot	131
Date of Analysis	Oct 09, 2025
Sampled by	Panupong Saenrat (1-204-s-0204)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, some odour, some solids, no turbidity

Brief Method Summaries

The methods in the analysis report are short format, refer to full test methods in accordance with the ISO/IEC 17025 certificate no. specified in the analysis report.

Method	Testing Lab	Method Descriptions
EN0020	Bangkok	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Bangkok	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Bangkok	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Bangkok	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0097	Bangkok	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 2550 B
EN0100	Bangkok	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 2540 C
EN0102	Bangkok	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

—— END OF REPORT ——

Signatories

Sirilak Bunrak, Section Head, 1-204-s-0013

Kanokkorn Anek, Assistant General Manager, 1-204-e-0004

ALS

TESTING No.0009

Analysis Report

Work Order	BK2534471	Date Received :	Oct 01, 2025
Client	WHA Utilities and Power Public Company Limited 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported :	Oct 16, 2025
		Report Number :	BK2534471-AA (1)
Project	WHA SIL		
Project Location	HOWA PACKAGING (THAILAND) CO., LTD._67_WWT_009_2568		

Sample Number	BK2534471-001
Sampled Date	Oct 01, 2025 10:40 AM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	HOWA PACKAGING (THAILAND) CO., LTD.
Contract ID	WWT_009_2568
Plot	67
Date of Analysis	Oct 02, 2025
Sampled by	Pichai Boonyong (1-204-s-0082)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, some odour, some solids, turbid

Analytical Results

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	9.8	≤500	EN0044	Bangkok
COD	mg/L	-	25	83	≤750	EN0046	Bangkok
Oil & Grease	mg/L	-	3	<3	≤10	EN0048	Bangkok
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.2	5.5-9	EN0020	Bangkok
Temperature *	°C	-	-	29.2	≤40	EN0097	Bangkok
Total Suspended Solids	mg/L	-	5	16	≤200	EN0102	Bangkok

Guideline : Industrial Land on Criteria of wastewater discharging to central wastewater treatment plant

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

Key :
- 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

Signatories

Sirilak Bunrak, Section Head, 1-204-s-0013

Kanokkorn Anek, Assistant General Manager, 1-204-e-0004

ALS

TESTING No.0009

Analysis Report

Work Order	BK2534471	Date Received :	Oct 01, 2025
Client	WHA Utilities and Power Public Company Limited 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported :	Oct 16, 2025
		Report Number :	BK2534471-AA (1)
Project	WHA SIL		
Project Location	HOWA PACKAGING (THAILAND) CO., LTD._67_WWT_009_2568		

Sample Number	BK2534471-001
Sampled Date	Oct 01, 2025 10:40 AM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	HOWA PACKAGING (THAILAND) CO., LTD.
Contract ID	WWT_009_2568
Plot	67
Date of Analysis	Oct 02, 2025
Sampled by	Pichai Boonyong (1-204-s-0082)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, some odour, some solids, turbid

Brief Method Summaries

The methods in the analysis report are short format, refer to full test methods in accordance with the ISO/IEC 17025 certificate no. specified in the analysis report.

Method	Testing Lab	Method Descriptions
EN0020	Bangkok	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Bangkok	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Bangkok	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Bangkok	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0097	Bangkok	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 2550 B
EN0102	Bangkok	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

—— END OF REPORT ——

Signatories

Sirilak Bunrak, Section Head, 1-204-s-0013

Kanokkorn Anek, Assistant General Manager, 1-204-e-0004

ALS

TESTING No.0009

Analysis Report

Work Order	BK2534472	Date Received :	Oct 01, 2025
Client	WHA Utilities and Power Public Company Limited 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported :	Oct 16, 2025
		Report Number :	BK2534472-AA (1)
Project	WHA SIL		
Project Location	Hygerie (Thailand) Co.,Ltd. (1st)_149_WWT_032_2566		

Sample Number	BK2534472-001
Sampled Date	Oct 01, 2025 01:25 PM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	Hygerie (Thailand) Co.,Ltd. (1st)
Contract ID	WWT_032_2566
Plot	149
Date of Analysis	Oct 02, 2025
Sampled by	Pichai Boonyong (1-204-s-0082)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, odourless, some solids, no turbidity

Analytical Results

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	<2.0	≤500	EN0044	Bangkok
COD	mg/L	-	25	<25	≤750	EN0046	Bangkok
Oil & Grease	mg/L	-	3	<3	≤10	EN0048	Bangkok
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	8.0	5.5-9	EN0020	Bangkok
Temperature *	°C	-	-	30.8	≤40	EN0097	Bangkok
Total Dissolved Solids at 180°C	mg/L	-	5	516	≤3000	EN0100	Bangkok
Total Suspended Solids	mg/L	-	5	<5	≤200	EN0102	Bangkok

Guideline : Industrial Land on Criteria of wastewater discharging to central wastewater treatment plant

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

Key :
- 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

Signatories

Sirilak Bunrak, Section Head, 1-204-s-0013

Kanokkorn Anek, Assistant General Manager, 1-204-e-0004

ALS

TESTING No.0009

Analysis Report

Work Order	BK2534472	Date Received :	Oct 01, 2025
Client	WHA Utilities and Power Public Company Limited 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported :	Oct 16, 2025
		Report Number :	BK2534472-AA (1)
Project	WHA SIL		
Project Location	Hygerie (Thailand) Co.,Ltd. (1st)_149_WWT_032_2566		

Sample Number	BK2534472-001
Sampled Date	Oct 01, 2025 01:25 PM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	Hygerie (Thailand) Co.,Ltd. (1st)
Contract ID	WWT_032_2566
Plot	149
Date of Analysis	Oct 02, 2025
Sampled by	Pichai Boonyong (1-204-s-0082)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, odourless, some solids, no turbidity

Brief Method Summaries

The methods in the analysis report are short format, refer to full test methods in accordance with the ISO/IEC 17025 certificate no. specified in the analysis report.

Method	Testing Lab	Method Descriptions
EN0020	Bangkok	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Bangkok	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Bangkok	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Bangkok	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0097	Bangkok	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 2550 B
EN0100	Bangkok	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 2540 C
EN0102	Bangkok	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

—— END OF REPORT ——

Signatories

Sirilak Bunrak, Section Head, 1-204-s-0013

Kanokkorn Anek, Assistant General Manager, 1-204-e-0004

ALS

TESTING No.0009

Analysis Report

Work Order	BK2534473	Date Received :	Oct 09, 2025
Client	WHA Utilities and Power Public Company Limited 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported :	Oct 16, 2025
		Report Number :	BK2534473-AA
Project	WHA SIL		
Project Location	Hygerie (Thailand) Co.,Ltd. (2nd)_149_WWT_032_2566		

Sample Number	BK2534473-001
Sampled Date	Oct 09, 2025 10:20 AM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	Hygerie (Thailand) Co.,Ltd. (2nd)
Contract ID	WWT_032_2566
Plot	149
Date of Analysis	Oct 10, 2025
Sampled by	Panupong Saenrat (1-204-s-0204)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	colourless, some odour, some solids, no turbidity

Analytical Results

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	<2.0	≤500	EN0044	Bangkok
COD	mg/L	-	25	<25	≤750	EN0046	Bangkok
Oil & Grease	mg/L	-	3	<3	≤10	EN0048	Bangkok
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	8.8	5.5-9	EN0020	Bangkok
Temperature *	°C	-	-	32.3	≤40	EN0097	Bangkok
Total Dissolved Solids at 180°C	mg/L	-	5	552	≤3000	EN0100	Bangkok
Total Suspended Solids	mg/L	-	5	<5	≤200	EN0102	Bangkok

Guideline : Industrial Land on Criteria of wastewater discharging to central wastewater treatment plant

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

Key :
- 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

Signatories

Sirilak Bunrak, Section Head, 1-204-s-0013

Kanokkorn Anek, Assistant General Manager, 1-204-e-0004

ALS

TESTING No.0009

Analysis Report

Work Order	BK2534473	Date Received :	Oct 09, 2025
Client	WHA Utilities and Power Public Company Limited 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported :	Oct 16, 2025
		Report Number :	BK2534473-AA
Project	WHA SIL		
Project Location	Hygerie (Thailand) Co.,Ltd. (2nd)_149_WWT_032_2566		

Sample Number	BK2534473-001
Sampled Date	Oct 09, 2025 10:20 AM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	Hygerie (Thailand) Co.,Ltd. (2nd)
Contract ID	WWT_032_2566
Plot	149
Date of Analysis	Oct 10, 2025
Sampled by	Panupong Saenrat (1-204-s-0204)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	colourless, some odour, some solids, no turbidity

Brief Method Summaries

The methods in the analysis report are short format, refer to full test methods in accordance with the ISO/IEC 17025 certificate no. specified in the analysis report.

Method	Testing Lab	Method Descriptions
EN0020	Bangkok	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Bangkok	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Bangkok	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Bangkok	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0097	Bangkok	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 2550 B
EN0100	Bangkok	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 2540 C
EN0102	Bangkok	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

—— END OF REPORT ——

Signatories

Sirilak Bunrak, Section Head, 1-204-s-0013

Kanokkorn Anek, Assistant General Manager, 1-204-e-0004

ALS

TESTING No.0009

Analysis Report

Work Order	BK2534474	Date Received :	Oct 01, 2025
Client	WHA Utilities and Power Public Company Limited 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported :	Oct 16, 2025
		Report Number :	BK2534474-AA (1)
Project	WHA SIL		
Project Location	IDEC Asia (Thailand) Co.,Ltd._84_WWT_042_2566		

Sample Number	BK2534474-001
Sampled Date	Oct 01, 2025 10:00 AM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	IDEC Asia (Thailand) Co.,Ltd.
Contract ID	WWT_042_2566
Plot	84
Date of Analysis	Oct 02, 2025
Sampled by	Pichai Boonyong (1-204-s-0082)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, strong odour, lots of solids, highly turbid

Analytical Results

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	80.8	≤500	EN0044	Bangkok
COD	mg/L	-	25	133	≤750	EN0046	Bangkok
Oil & Grease	mg/L	-	3	8	≤10	EN0048	Bangkok
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.2	5.5-9	EN0020	Bangkok
Temperature *	°C	-	-	30.4	≤40	EN0097	Bangkok
Total Suspended Solids	mg/L	-	5	36	≤200	EN0102	Bangkok

Guideline : Industrial Land on Criteria of wastewater discharging to central wastewater treatment plant

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

Key :
- 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

Signatories

Sirilak Bunrak, Section Head, 1-204-s-0013

Kanokkorn Anek, Assistant General Manager, 1-204-e-0004

ALS

TESTING No.0009

Analysis Report

Work Order	BK2534474	Date Received :	Oct 01, 2025
Client	WHA Utilities and Power Public Company Limited 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported :	Oct 16, 2025
		Report Number :	BK2534474-AA (1)
Project	WHA SIL		
Project Location	IDEC Asia (Thailand) Co.,Ltd._84_WWT_042_2566		

Sample Number	BK2534474-001
Sampled Date	Oct 01, 2025 10:00 AM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	IDEC Asia (Thailand) Co.,Ltd.
Contract ID	WWT_042_2566
Plot	84
Date of Analysis	Oct 02, 2025
Sampled by	Pichai Boonyong (1-204-s-0082)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, strong odour, lots of solids, highly turbid

Brief Method Summaries

The methods in the analysis report are short format, refer to full test methods in accordance with the ISO/IEC 17025 certificate no. specified in the analysis report.

Method	Testing Lab	Method Descriptions
EN0020	Bangkok	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Bangkok	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Bangkok	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Bangkok	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0097	Bangkok	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 2550 B
EN0102	Bangkok	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

—— END OF REPORT ——

Signatories

Sirilak Bunrak, Section Head, 1-204-s-0013

Kanokkorn Anek, Assistant General Manager, 1-204-e-0004

Analysis Report

TESTING No.0009

Work Order	BK2534475	Date Received	Oct 08, 2025
Client	WHA Utilities and Power Public Company Limited	Date Reported	Oct 16, 2025
	111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Report Number	BK2534475-AA
Project	WHA SIL		
Project Location	JCY HDD Technology Co.,Ltd._43,44_WWT_009_2564		

Sample Number	BK2534475-001
Sampled Date	Oct 08, 2025 10:50 AM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	JCY HDD Technology Co.,Ltd.
Contract ID	WWT_009_2564
Plot	43,44
Date of Analysis	Oct 09, 2025
Sampled by	Panupong Saenoi (1-204-c-0204)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H_2SO_4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, some odour, some solids, no turbidity

Analytical Results

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	12.0	≤500	EN0044	Bangkok
COD	mg/L	-	25	42	≤750	EN0046	Bangkok
Oil & Grease	mg/L	-	3	<3	≤10	EN0048	Bangkok
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.6	5.5-9	EN0020	Bangkok
Temperature *	°C	-	-	31.5	≤40	EN0097	Bangkok
Total Suspended Solids	mg/L	-	5	11	≤200	EN0102	Bangkok

Guideline : Industrial Land on Criteria of wastewater discharging to central wastewater treatment plant

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

Key :
- 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/IEC17025

Signatories

Nanthawadee Somboon, Specialist 2, 1-204-c-0010

Kanokkorn Anek, Assistant General Manager, 1-204-e-0004

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

ALS Laboratory Group (Thailand) Co.,Ltd. Bangkok Life Sciences

Analysis Report

TESTING No.0009

Work Order	BK2534475	Date Received	Oct 08, 2025
Client	WHA Utilities and Power Public Company Limited	Date Reported	Oct 16, 2025
	111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Report Number	BK2534475-AA
Project	WHA SIL		
Project Location	JCY HDD Technology Co.,Ltd._43,44_WWT_009_2564		

Sample Number	BK2534475-001
Sampled Date	Oct 08, 2025 10:50 AM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	JCY HDD Technology Co.,Ltd.
Contract ID	WWT_009_2564
Plot	43,44
Date of Analysis	Oct 09, 2025
Sampled by	Panupong Saenoi (1-204-c-0204)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H_2SO_4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, some odour, some solids, no turbidity

Brief Method Summaries

The methods in the analysis report are short format, refer to full test methods in accordance with the ISO/IEC 17025 certificate no. specified in the analysis report.

Method	Testing Lab	Method Descriptions
EN0020	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0097	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B
EN0102	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

— END OF REPORT —

Signatories

Nanthawadee Somboon, Specialist 2, 1-204-c-0010

Kanokkorn Anek, Assistant General Manager, 1-204-e-0004

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

ALS Laboratory Group (Thailand) Co.,Ltd. Bangkok Life Sciences

Analysis Report

TESTING No.0009

Work Order	BK2534476	Date Received	Oct 08, 2025
Client	WHA Utilities and Power Public Company Limited	Date Reported	Oct 16, 2025
	111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Report Number	BK2534476-AA
Project	WHA SIL		
Project Location	Johnan F. Tech (Thailand) Co.,Ltd._162/1_WWT_034_2566		

Sample Number	BK2534476-001
Sampled Date	Oct 08, 2025 11:25 AM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	Johnan F. Tech (Thailand) Co.,Ltd.
Contract ID	WWT_034_2566
Plot	162/1
Date of Analysis	Oct 09, 2025
Sampled by	Panupong Saenoi (1-204-c-0204)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H_2SO_4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, strong odour, some solids, highly turbid

Analytical Results

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	60.0	≤500	EN0044	Bangkok
COD	mg/L	-	25	187	≤750	EN0046	Bangkok
Oil & Grease	mg/L	-	3	3	≤10	EN0048	Bangkok
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.8	5.5-9	EN0020	Bangkok
Temperature *	°C	-	-	31.6	≤40	EN0097	Bangkok
Total Suspended Solids	mg/L	-	5	48	≤200	EN0102	Bangkok

Guideline : Industrial Land on Criteria of wastewater discharging to central wastewater treatment plant

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

Key :
- 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/IEC17025

Signatories

Nanthawadee Somboon, Specialist 2, 1-204-c-0010

Kanokkorn Anek, Assistant General Manager, 1-204-e-0004

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

ALS Laboratory Group (Thailand) Co.,Ltd. Bangkok Life Sciences

Analysis Report

TESTING No.0009

Work Order	BK2534476	Date Received	Oct 08, 2025
Client	WHA Utilities and Power Public Company Limited	Date Reported	Oct 16, 2025
	111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Report Number	BK2534476-AA
Project	WHA SIL		
Project Location	Johnan F. Tech (Thailand) Co.,Ltd._162/1_WWT_034_2566		

Sample Number	BK2534476-001
Sampled Date	Oct 08, 2025 11:25 AM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	Johnan F. Tech (Thailand) Co.,Ltd.
Contract ID	WWT_034_2566
Plot	162/1
Date of Analysis	Oct 09, 2025
Sampled by	Panupong Saenoi (1-204-c-0204)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H_2SO_4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, strong odour, some solids, highly turbid

Brief Method Summaries

The methods in the analysis report are short format, refer to full test methods in accordance with the ISO/IEC 17025 certificate no. specified in the analysis report.

Method	Testing Lab	Method Descriptions
EN0020	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0097	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B
EN0102	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

— END OF REPORT —

Signatories

Nanthawadee Somboon, Specialist 2, 1-204-c-0010

Kanokkorn Anek, Assistant General Manager, 1-204-e-0004

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

ALS Laboratory Group (Thailand) Co.,Ltd. Bangkok Life Sciences

Analysis Report

TESTING No.0009

Work Order	BK2534477	Date Received	Oct 01, 2025
Client	WHA Utilities and Power Public Company Limited	Date Reported	Oct 16, 2025
	111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Report Number	BK2534477-AA (1)
Project	WHA SIL		
Project Location	Knauf Gypsum (Thailand) Co.,Ltd._146_WWT_010_2568		

Sample Number	BK2534477-001
Sampled Date	Oct 01, 2025 01:30 PM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	Knauf Gypsum (Thailand) Co.,Ltd.
Contract ID	WWT_010_2568
Plot	146
Date of Analysis	Oct 02, 2025
Sampled by	Anuwat Phulsawin (1-204-c-0146)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H_2SO_4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, some odour, some solids, turbid

Analytical Results

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	131	≤500	EN0044	Bangkok
COD	mg/L	-	25	220	≤750	EN0046	Bangkok
Oil & Grease	mg/L	-	3	3	≤10	EN0048	Bangkok
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.7	5.5-9	EN0020	Bangkok
Temperature *	°C	-	-	36.2	≤40	EN0097	Bangkok
Total Suspended Solids	mg/L	-	5	32	≤200	EN0102	Bangkok

Guideline : Industrial Land on Criteria of wastewater discharging to central wastewater treatment plant

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

Key :
- 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/IEC17025

Signatories

Siriluk Bunnak, Section Head, 1-204-c-0013

Kanokkorn Anek, Assistant General Manager, 1-204-e-0004

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ALS Laboratory Group (Thailand) Co.,Ltd. Bangkok Life Sciences

Analysis Report

TESTING No.0009

Work Order	BK2534477	Date Received	Oct 01, 2025
Client	WHA Utilities and Power Public Company Limited	Date Reported	Oct 16, 2025
	111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Report Number	BK2534477-AA (1)
Project	WHA SIL		
Project Location	Knauf Gypsum (Thailand) Co.,Ltd._146_WWT_010_2568		

Sample Number	BK2534477-001
Sampled Date	Oct 01, 2025 01:30 PM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	Knauf Gypsum (Thailand) Co.,Ltd.
Contract ID	WWT_010_2568
Plot	146
Date of Analysis	Oct 02, 2025
Sampled by	Anuwat Phulsawin (1-204-c-0146)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H_2SO_4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, some odour, some solids, turbid

Brief Method Summaries

The methods in the analysis report are short format, refer to full test methods in accordance with the ISO/IEC 17025 certificate no. specified in the analysis report.

Method	Testing Lab	Method Descriptions
EN0020	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0097	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B
EN0102	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

— END OF REPORT —

Signatories

Siriluk Bunnak, Section Head, 1-204-c-0013

Kanokkorn Anek, Assistant General Manager, 1-204-e-0004

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

ALS Laboratory Group (Thailand) Co.,Ltd. Bangkok Life Sciences

Analysis Report

TESTING No.0009

Work Order	BK2534478	Date Received	Oct 01, 2025
Client	WHA Utilities and Power Public Company Limited	Date Reported	Oct 16, 2025
	111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Report Number	BK2534478-AA (1)
Project	WHA SIL		
Project Location	Kuramo (Thailand) CO.,LTD._66/1_WWT_013_2567		

Sample Number	BK2534478-001
Sampled Date	Oct 01, 2025 10:20 AM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	Kuramo (Thailand) CO.,LTD.
Contract ID	WWT_013_2567
Plot	66/1
Date of Analysis	Oct 02, 2025
Sampled by	Pichai Boonyong (1-204-c-0062)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H_2SO_4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, strong odour, lots of solids, highly turbid

Analytical Results

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	102	≤500	EN0044	Bangkok
COD	mg/L	-	25	290	≤750	EN0046	Bangkok
Oil & Grease	mg/L	-	3	10	≤10	EN0048	Bangkok
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.6	5.5-9	EN0020	Bangkok
Temperature *	°C	-	-	31.8	≤40	EN0097	Bangkok
Total Suspended Solids	mg/L	-	5	103	≤200	EN0102	Bangkok

Guideline : Industrial Land on Criteria of wastewater discharging to central wastewater treatment plant

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

Key :
- 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/IEC17025

Signatories

Siriluk Bunnak, Section Head, 1-204-c-0013

Kanokkorn Anek, Assistant General Manager, 1-204-e-0004

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

ALS Laboratory Group (Thailand) Co.,Ltd. Bangkok Life Sciences

Analysis Report

TESTING No.0009

Work Order	BK2534478	Date Received	Oct 01, 2025
Client	WHA Utilities and Power Public Company Limited	Date Reported	Oct 16, 2025
	111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Report Number	BK2534478-AA (1)
Project	WHA SIL		
Project Location	Kuramo (Thailand) CO.,LTD._66/1_WWT_013_2567		

Sample Number	BK2534478-001
Sampled Date	Oct 01, 2025 10:20 AM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	Kuramo (Thailand) CO.,LTD.
Contract ID	WWT_013_2567
Plot	66/1
Date of Analysis	Oct 02, 2025
Sampled by	Pichai Boonyong (1-204-c-0062)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H_2SO_4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, strong odour, lots of solids, highly turbid

Brief Method Summaries

The methods in the analysis report are short format, refer to full test methods in accordance with the ISO/IEC 17025 certificate no. specified in the analysis report.

Method	Testing Lab	Method Descriptions
EN0020	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0097	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B
EN0102	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

— END OF REPORT —

Signatories

Siriluk Bunnak, Section Head, 1-204-c-0013

Kanokkorn Anek, Assistant General Manager, 1-204-e-0004

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ALS Laboratory Group (Thailand) Co.,Ltd. Bangkok Life Sciences

Analysis Report

TESTING No.0009

Work Order	BK2534479	Date Received	Oct 09, 2025
Client	WHA Utilities and Power Public Company Limited	Date Reported	Oct 16, 2025
	111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Report Number	BK2534479-AA
Project	WHA SIL		
Project Location	Maxion Wheels (Thailand) Co.,Ltd._18,82,40_WWT_016_2564		

Sample Number	BK2534479-001
Sampled Date	Oct 09, 2025 09:40 AM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	Maxion Wheels (Thailand) Co.,Ltd.
Contract ID	WWT_016_2564
Plot	18,82,40
Date of Analysis	Oct 10, 2025
Sampled by	Panupong Saenoi (1-204-c-0204)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H_2SO_4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, some odour, some solids, turbid

Analytical Results

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	15.8	≤500	EN0044	Bangkok
COD	mg/L	-	25	88	≤750	EN0046	Bangkok
Oil & Grease	mg/L	-	3	8	≤10	EN0048	Bangkok
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.5	5.5-9	EN0020	Bangkok
Temperature *	°C	-	-	31.7	≤40	EN0097	Bangkok
Total Suspended Solids	mg/L	-	5	38	≤200	EN0102	Bangkok

Guideline : Industrial Land on Criteria of wastewater discharging to central wastewater treatment plant

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

Key :
- 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/IEC17025

Signatories

Siriluk Bunnak, Section Head, 1-204-c-0013

Kanokkorn Anek, Assistant General Manager, 1-204-e-0004

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ALS Laboratory Group (Thailand) Co.,Ltd. Bangkok Life Sciences

Analysis Report

TESTING No.0009

Work Order	BK2534479	Date Received	Oct 09, 2025
Client	WHA Utilities and Power Public Company Limited 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported	Oct 16, 2025
Project	WHA SIL	Report Number	BK2534479-AA
Project Location	Maxion Wheels (Thailand) Co.,Ltd._18,82,40_WWT_018_2564		

Sample Number	BK2534479-001
Sampled Date	Oct 09, 2025 09:40 AM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	Maxion Wheels (Thailand) Co.,Ltd.
Contract ID	WWT_018_2564
Plot	18,82,40
Date of Analysis	Oct 10, 2025
Sampled by	Panupong Saenrot (1-204-s-0204)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, some odour, some solids, turbid

Brief Method Summaries

The methods in the analysis report are short format, refer to full test methods in accordance with the ISO/IEC 17025 certificate no. specified in the analysis report.

Method	Testing Lab	Method Descriptions
EN0020	Bangkok	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Bangkok	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Bangkok	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Bangkok	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0097	Bangkok	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 2550 B
EN0102	Bangkok	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

——— END OF REPORT ———

Signatories

Sitiluk Bunnak, Section Head, 1-204-s-0013

Kanokkorn Anek, Assistant General Manager, 1-204-e-0004

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Analysis Report

TESTING No.0009

Work Order	BK2534480	Date Received	Oct 01, 2025
Client	WHA Utilities and Power Public Company Limited 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported	Oct 16, 2025
Project	WHA SIL	Report Number	BK2534480-AA (1)
Project Location	Michelin ROH Co.,Ltd._86_WWT_011_2564		

Sample Number	BK2534480-001
Sampled Date	Oct 01, 2025 10:10 AM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	Michelin ROH Co.,Ltd.
Contract ID	WWT_011_2564
Plot	86
Date of Analysis	Oct 02, 2025
Sampled by	Pichai Booryong (1-204-s-0062)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, strong odour, lots of solids, highly turbid

Analytical Results

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	19.8	≤500	EN0044	Bangkok
COD	mg/L	-	25	66	≤750	EN0046	Bangkok
Oil & Grease	mg/L	-	3	<3	≤10	EN0048	Bangkok
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.7	5.5-9	EN0020	Bangkok
Temperature *	°C	-	-	30.3	≤40	EN0097	Bangkok
Total Suspended Solids	mg/L	-	5	32	≤200	EN0102	Bangkok

Guideline : Industrial Land on Criteria of wastewater discharging to central wastewater treatment plant

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

Key :
- 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

Signatories

Sitiluk Bunnak, Section Head, 1-204-s-0013

Kanokkorn Anek, Assistant General Manager, 1-204-e-0004

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Analysis Report

TESTING No.0009

Work Order	BK2534480	Date Received	Oct 01, 2025
Client	WHA Utilities and Power Public Company Limited 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported	Oct 16, 2025
Project	WHA SIL	Report Number	BK2534480-AA (1)
Project Location	Michelin ROH Co.,Ltd._86_WWT_011_2564		

Sample Number	BK2534480-001
Sampled Date	Oct 01, 2025 10:10 AM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	Michelin ROH Co.,Ltd.
Contract ID	WWT_011_2564
Plot	86
Date of Analysis	Oct 02, 2025
Sampled by	Pichai Booryong (1-204-s-0062)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, strong odour, lots of solids, highly turbid

Brief Method Summaries

The methods in the analysis report are short format, refer to full test methods in accordance with the ISO/IEC 17025 certificate no. specified in the analysis report.

Method	Testing Lab	Method Descriptions
EN0020	Bangkok	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Bangkok	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Bangkok	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Bangkok	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0097	Bangkok	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 2550 B
EN0102	Bangkok	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

——— END OF REPORT ———

Signatories

Sitiluk Bunnak, Section Head, 1-204-s-0013

Kanokkorn Anek, Assistant General Manager, 1-204-e-0004

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Analysis Report

TESTING No.0009

Work Order	BK2534481	Date Received	Oct 01, 2025
Client	WHA Utilities and Power Public Company Limited 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported	Oct 16, 2025
Project	WHA SIL	Report Number	BK2534481-AA (1)
Project Location	Michelin Siam Co.,Ltd._17_WWT_002_2560		

Sample Number	BK2534481-001
Sampled Date	Oct 01, 2025 11:20 AM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	Michelin Siam Co.,Ltd.
Contract ID	WWT_002_2560
Plot	17
Date of Analysis	Oct 02, 2025
Sampled by	Panupong Saenrot (1-204-s-0204)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, some odour, some solids, turbid

Analytical Results

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	15.2	≤500	EN0044	Bangkok
COD	mg/L	-	25	58	≤750	EN0046	Bangkok
Oil & Grease	mg/L	-	3	<3	≤10	EN0048	Bangkok
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.4	5.5-9	EN0020	Bangkok
Temperature *	°C	-	-	31.4	≤40	EN0097	Bangkok
Total Suspended Solids	mg/L	-	5	28	≤200	EN0102	Bangkok

Guideline : Industrial Land on Criteria of wastewater discharging to central wastewater treatment plant

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

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

Signatories

Sitiluk Bunnak, Section Head, 1-204-s-0013

Kanokkorn Anek, Assistant General Manager, 1-204-e-0004

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Analysis Report

TESTING No.0009

Work Order	BK2534481	Date Received	Oct 01, 2025
Client	WHA Utilities and Power Public Company Limited 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported	Oct 16, 2025
Project	WHA SIL	Report Number	BK2534481-AA (1)
Project Location	Michelin Siam Co.,Ltd._17_WWT_002_2560		

Sample Number	BK2534481-001
Sampled Date	Oct 01, 2025 11:20 AM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	Michelin Siam Co.,Ltd.
Contract ID	WWT_002_2560
Plot	17
Date of Analysis	Oct 02, 2025
Sampled by	Panupong Saenrot (1-204-s-0204)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, some odour, some solids, turbid

Brief Method Summaries

The methods in the analysis report are short format, refer to full test methods in accordance with the ISO/IEC 17025 certificate no. specified in the analysis report.

Method	Testing Lab	Method Descriptions
EN0020	Bangkok	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Bangkok	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Bangkok	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Bangkok	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0097	Bangkok	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 2550 B
EN0102	Bangkok	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

——— END OF REPORT ———

Signatories

Sitiluk Bunnak, Section Head, 1-204-s-0013

Kanokkorn Anek, Assistant General Manager, 1-204-e-0004

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Analysis Report

TESTING No.0009

Work Order	BK2534482	Date Received	Oct 01, 2025
Client	WHA Utilities and Power Public Company Limited 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported	Oct 16, 2025
Project	WHA SIL	Report Number	BK2534482-AA (1)
Project Location	Michelin Siam Co.,Ltd. (1st)_6,83,92_WWT_013_2564		

Sample Number	BK2534482-001
Sampled Date	Oct 01, 2025 11:10 AM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	Michelin Siam Co.,Ltd. (1st)
Contract ID	WWT_013_2564
Plot	6,83,92
Date of Analysis	Oct 02, 2025
Sampled by	Panupong Saenrot (1-204-s-0204)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, some odour, some solids, turbid

Analytical Results

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	3.4	≤500	EN0044	Bangkok
COD	mg/L	-	25	39	≤750	EN0046	Bangkok
Oil & Grease	mg/L	-	3	<3	≤10	EN0048	Bangkok
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	8.0	5.5-9	EN0020	Bangkok
Temperature *	°C	-	-	36.7	≤40	EN0097	Bangkok
Total Dissolved Solids at 180°C	mg/L	-	5	324	≤3000	EN0100	Bangkok
Total Suspended Solids	mg/L	-	5	14	≤200	EN0102	Bangkok

Guideline : Industrial Land on Criteria of wastewater discharging to central wastewater treatment plant.

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

Key :
- 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

Signatories

Sitiluk Bunnak, Section Head, 1-204-s-0013

Kanokkorn Anek, Assistant General Manager, 1-204-e-0004

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Analysis Report

TESTING No.0009

Work Order	BK2534482	Date Received	Oct 01, 2025
Client	WHA Utilities and Power Public Company Limited 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported	Oct 16, 2025
Project	WHA SIL	Report Number	BK2534482-AA (1)
Project Location	Michelin Siam Co.,Ltd. (1st)_6,83,92_WWT_013_2564		

Sample Number	BK2534482-001
Sampled Date	Oct 01, 2025 11:10 AM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	Michelin Siam Co.,Ltd. (1st)
Contract ID	WWT_013_2564
Plot	6,83,92
Date of Analysis	Oct 02, 2025
Sampled by	Panupong Saenrot (1-204-s-0204)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, some odour, some solids, turbid

Brief Method Summaries

The methods in the analysis report are short format, refer to full test methods in accordance with the ISO/IEC 17025 certificate no. specified in the analysis report.

Method	Testing Lab	Method Descriptions
EN0020	Bangkok	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Bangkok	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Bangkok	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Bangkok	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0097	Bangkok	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 2550 B
EN0100	Bangkok	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 2540 C
EN0102	Bangkok	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

——— END OF REPORT ———

Signatories

Sitiluk Bunnak, Section Head, 1-204-s-0013

Kanokkorn Anek, Assistant General Manager, 1-204-e-0004

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Analysis Report

TESTING No.0009

Work Order	BK2534483	Date Received	Oct 01, 2025
Client	WHA Utilities and Power Public Company Limited 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported	Oct 16, 2025
Project	WHA SIL	Report Number	BK2534483-AA (1)
Project Location	Miyagi Industry (Thailand) Co.,Ltd._136_WWT_003_2566		

Sample Number	BK2534483-001
Sampled Date	Oct 01, 2025 08:40 AM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	Miyagi Industry (Thailand) Co.,Ltd.
Contract ID	WWT_003_2566
Plot	136
Date of Analysis	Oct 02, 2025
Sampled by	Panupong Saenrot (1-204-s-0204)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, some odour, some solids, turbid

Analytical Results

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	19.7	≤500	EN0044	Bangkok
COD	mg/L	-	25	118	≤750	EN0046	Bangkok
Oil & Grease	mg/L	-	3	<3	≤10	EN0048	Bangkok
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.8	5.5-9	EN0020	Bangkok
Temperature *	°C	-	-	30.3	≤40	EN0097	Bangkok
Total Suspended Solids	mg/L	-	5	32	≤200	EN0102	Bangkok

Guideline : Industrial Land on Criteria of wastewater discharging to central wastewater treatment plant

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

Key :
- 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

Signatories

Sitiluk Bunnak, Section Head, 1-204-s-0013

Kanokkorn Anek, Assistant General Manager, 1-204-e-0004

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Analysis Report

TESTING No.0009

Work Order	BK2534483	Date Received	Oct 01, 2025
Client	WHA Utilities and Power Public Company Limited 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported	Oct 16, 2025
Project	WHA SIL	Report Number	BK2534483-AA (1)
Project Location	Miyagi Industry (Thailand) Co.,Ltd._136_WWT_003_2566		

Sample Number	BK2534483-001
Sampled Date	Oct 01, 2025 08:40 AM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	Miyagi Industry (Thailand) Co.,Ltd.
Contract ID	WWT_003_2566
Plot	136
Date of Analysis	Oct 02, 2025
Sampled by	Panupong Saenrot (1-204-s-0204)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, some odour, some solids, turbid

Brief Method Summaries

The methods in the analysis report are short format, refer to full test methods in accordance with the ISO/IEC 17025 certificate no. specified in the analysis report.

Method	Testing Lab	Method Descriptions
EN0020	Bangkok	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Bangkok	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Bangkok	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Bangkok	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0097	Bangkok	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 2550 B
EN0102	Bangkok	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

——— END OF REPORT ———

Signatories

Sitiluk Bunnak, Section Head, 1-204-s-0013

Kanokkorn Anek, Assistant General Manager, 1-204-e-0004

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

Analysis Report

TESTING No.0009

Work Order	BK2534485	Date Received	Oct 08, 2025
Client	WHA Utilities and Power Public Company Limited, 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported	Oct 16, 2025
Project	WHA SIL	Report Number	BK2534485-AA
Project Location	Muto (Thailand) Co.,Ltd._160, 161, 162, 166, 168_WWT_048_2568		

Sample Number	BK2534485-001
Sampled Date	Oct 08, 2025 11:35 AM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	Muto (Thailand) Co.,Ltd.
Contract ID	WWT_048_2568
Plot	160, 161, 162, 166, 168
Date of Analysis	Oct 09, 2025
Sampled by	Panupong Saenot (1-204-s-0204)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H_2SO_4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, strong odour, some solids, highly turbid

Analytical Results

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	102	≤500	EN0044	Bangkok
COD	mg/L	-	25	276	≤750	EN0046	Bangkok
Oil & Grease	mg/L	-	3	8	≤10	EN0048	Bangkok
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.4	5.5-9	EN0020	Bangkok
Temperature *	°C	-	-	31.5	≤40	EN0097	Bangkok
Total Suspended Solids	mg/L	-	5	66	≤200	EN0102	Bangkok

Guideline : Industrial Land on Criteria of wastewater discharging to central wastewater treatment plant
Comment : Sampling is not included in scope of accreditation ISO/IEC 17025
Key :
- 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

Signatories

Nanthawadee Somboon, Specialist 2, 1-204-s-0010
Karokkorn Anek, Assistant General Manager, 1-204-e-0004

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

Analysis Report

TESTING No.0009

Work Order	BK2534485	Date Received	Oct 08, 2025
Client	WHA Utilities and Power Public Company Limited, 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported	Oct 16, 2025
Project	WHA SIL	Report Number	BK2534485-AA
Project Location	Muto (Thailand) Co.,Ltd._160, 161, 162, 166, 168_WWT_048_2568		

Sample Number	BK2534485-001
Sampled Date	Oct 08, 2025 11:35 AM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	Muto (Thailand) Co.,Ltd.
Contract ID	WWT_048_2568
Plot	160, 161, 162, 166, 168
Date of Analysis	Oct 09, 2025
Sampled by	Panupong Saenot (1-204-s-0204)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H_2SO_4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, strong odour, some solids, highly turbid

Brief Method Summaries

The methods in the analysis report are short format, refer to full test methods in accordance with the ISO/IEC 17025 certificate no. specified in the analysis report.

Method	Testing Lab	Method Descriptions
EN0020	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0097	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B
EN0102	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

—— END OF REPORT ——

Signatories

Nanthawadee Somboon, Specialist 2, 1-204-s-0010
Karokkorn Anek, Assistant General Manager, 1-204-e-0004

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

Analysis Report

TESTING No.0009

Work Order	BK2534486	Date Received	Oct 01, 2025
Client	WHA Utilities and Power Public Company Limited, 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported	Oct 16, 2025
Project	WHA SIL	Report Number	BK2534486-AA (1)
Project Location	Nawaplastic Industries Co., Ltd._8_WWT_005_2565		

Sample Number	BK2534486-001
Sampled Date	Oct 01, 2025 09:00 AM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	Nawaplastic Industries Co., Ltd.
Contract ID	WWT_005_2565
Plot	8
Date of Analysis	Oct 02, 2025
Sampled by	Panupong Saenot (1-204-s-0204)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H_2SO_4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, strong odour, some solids, turbid

Analytical Results

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	41.8	≤500	EN0044	Bangkok
COD	mg/L	-	25	181	≤750	EN0046	Bangkok
Oil & Grease	mg/L	-	3	<3	≤10	EN0048	Bangkok
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.6	5.5-9	EN0020	Bangkok
Temperature *	°C	-	-	29.7	≤40	EN0097	Bangkok
Total Suspended Solids	mg/L	-	5	12	≤200	EN0102	Bangkok

Guideline : Industrial Land on Criteria of wastewater discharging to central wastewater treatment plant
Comment : Sampling is not included in scope of accreditation ISO/IEC 17025
Key :
- 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

Signatories

Sirluk Bunnak, Section Head, 1-204-s-0013
Karokkorn Anek, Assistant General Manager, 1-204-e-0004

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

Analysis Report

TESTING No.0009

Work Order	BK2534486	Date Received	Oct 01, 2025
Client	WHA Utilities and Power Public Company Limited, 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported	Oct 16, 2025
Project	WHA SIL	Report Number	BK2534486-AA (1)
Project Location	Nawaplastic Industries Co., Ltd._8_WWT_005_2565		

Sample Number	BK2534486-001
Sampled Date	Oct 01, 2025 09:00 AM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	Nawaplastic Industries Co., Ltd.
Contract ID	WWT_005_2565
Plot	8
Date of Analysis	Oct 02, 2025
Sampled by	Panupong Saenot (1-204-s-0204)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H_2SO_4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, strong odour, some solids, turbid

Brief Method Summaries

The methods in the analysis report are short format, refer to full test methods in accordance with the ISO/IEC 17025 certificate no. specified in the analysis report.

Method	Testing Lab	Method Descriptions
EN0020	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0097	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B
EN0102	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

—— END OF REPORT ——

Signatories

Sirluk Bunnak, Section Head, 1-204-s-0013
Karokkorn Anek, Assistant General Manager, 1-204-e-0004

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Analysis Report

TESTING No.0009

Work Order	BK2534487	Date Received	Oct 01, 2025
Client	WHA Utilities and Power Public Company Limited, 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported	Oct 16, 2025
Project	WHA SIL	Report Number	BK2534487-AA (1)
Project Location	Nidec Component Technology(Thailand) Co., Ltd._80, 81_WWT_056_2564		

Sample Number	BK2534487-001
Sampled Date	Oct 01, 2025 11:05 AM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	Nidec Component Technology(Thailand) Co., Ltd.
Contract ID	WWT_056_2564
Plot	80, 81
Date of Analysis	Oct 02, 2025
Sampled by	Anuwat Phulsawin (1-204-s-0149)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H_2SO_4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, some odour, some solids, no turbidity

Analytical Results

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	4.2	≤500	EN0044	Bangkok
COD	mg/L	-	25	71	≤750	EN0046	Bangkok
Oil & Grease	mg/L	-	3	4	≤10	EN0048	Bangkok
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.1	5.5-9	EN0020	Bangkok
Temperature *	°C	-	-	32.5	≤40	EN0097	Bangkok
Total Suspended Solids	mg/L	-	5	<5	≤200	EN0102	Bangkok

Guideline : Industrial Land on Criteria of wastewater discharging to central wastewater treatment plant
Comment : Sampling is not included in scope of accreditation ISO/IEC 17025
Key :
- 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

Signatories

Sirluk Bunnak, Section Head, 1-204-s-0013
Karokkorn Anek, Assistant General Manager, 1-204-e-0004

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Analysis Report

TESTING No.0009

Work Order	BK2534487	Date Received	Oct 01, 2025
Client	WHA Utilities and Power Public Company Limited, 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported	Oct 16, 2025
Project	WHA SIL	Report Number	BK2534487-AA (1)
Project Location	Nidec Component Technology(Thailand) Co., Ltd._80, 81_WWT_056_2564		

Sample Number	BK2534487-001
Sampled Date	Oct 01, 2025 11:05 AM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	Nidec Component Technology(Thailand) Co., Ltd.
Contract ID	WWT_056_2564
Plot	80, 81
Date of Analysis	Oct 02, 2025
Sampled by	Anuwat Phulsawin (1-204-s-0149)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H_2SO_4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, some odour, some solids, no turbidity

Brief Method Summaries

The methods in the analysis report are short format, refer to full test methods in accordance with the ISO/IEC 17025 certificate no. specified in the analysis report.

Method	Testing Lab	Method Descriptions
EN0020	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0097	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B
EN0102	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

—— END OF REPORT ——

Signatories

Sirluk Bunnak, Section Head, 1-204-s-0013
Karokkorn Anek, Assistant General Manager, 1-204-e-0004

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

Analysis Report

TESTING No.0009

Work Order	BK2534488	Date Received	Oct 01, 2025
Client	WHA Utilities and Power Public Company Limited, 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported	Oct 16, 2025
Project	WHA SIL	Report Number	BK2534488-AA (1)
Project Location	Nihonichi Food (Thailand) Co.,Ltd._88_WWT_007_2565		

Sample Number	BK2534488-001
Sampled Date	Oct 01, 2025 10:30 AM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	Nihonichi Food (Thailand) Co.,Ltd.
Contract ID	WWT_007_2565
Plot	88
Date of Analysis	Oct 02, 2025
Sampled by	Pichai Boonyong (1-204-s-0062)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H_2SO_4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, some odour, some solids, no turbidity

Analytical Results

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	2.5	≤500	EN0044	Bangkok
COD	mg/L	-	25	<25	≤750	EN0046	Bangkok
Oil & Grease	mg/L	-	3	<3	≤10	EN0048	Bangkok
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.6	5.5-9	EN0020	Bangkok
Temperature *	°C	-	-	32.5	≤40	EN0097	Bangkok
Total Suspended Solids	mg/L	-	5	11	≤200	EN0102	Bangkok

Guideline : Industrial Land on Criteria of wastewater discharging to central wastewater treatment plant
Comment : Sampling is not included in scope of accreditation ISO/IEC 17025
Key :
- 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

Signatories

Sirluk Bunnak, Section Head, 1-204-s-0013
Karokkorn Anek, Assistant General Manager, 1-204-e-0004

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Analysis Report

TESTING No.0009

Work Order	BK2534488	Date Received	Oct 01, 2025
Client	WHA Utilities and Power Public Company Limited, 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported	Oct 16, 2025
Project	WHA SIL	Report Number	BK2534488-AA (1)
Project Location	Nihonichi Food (Thailand) Co.,Ltd._88_WWT_007_2565		

Sample Number	BK2534488-001
Sampled Date	Oct 01, 2025 10:30 AM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	Nihonichi Food (Thailand) Co.,Ltd.
Contract ID	WWT_007_2565
Plot	88
Date of Analysis	Oct 02, 2025
Sampled by	Pichai Boonyong (1-204-s-0062)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H_2SO_4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, some odour, some solids, no turbidity

Brief Method Summaries

The methods in the analysis report are short format, refer to full test methods in accordance with the ISO/IEC 17025 certificate no. specified in the analysis report.

Method	Testing Lab	Method Descriptions
EN0020	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0097	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B
EN0102	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

—— END OF REPORT ——

Signatories

Sirluk Bunnak, Section Head, 1-204-s-0013
Karokkorn Anek, Assistant General Manager, 1-204-e-0004

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

Analysis Report

TESTING No.0009

Work Order	BK2534489	Date Received	Oct 01, 2025
Client	WHA Utilities and Power Public Company Limited, 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported	Oct 16, 2025
Project	WHA SIL	Report Number	BK2534489-AA (1)
Project Location	Nikon (Thailand) Co.,Ltd._93C_WWT_063_2566		

Sample Number	BK2534489-001
Sampled Date	Oct 01, 2025 11:00 AM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	Nikon (Thailand) Co.,Ltd.
Contract ID	WWT_063_2566
Plot	93C
Date of Analysis	Oct 02, 2025
Sampled by	Panupong Saenot (1-204-s-0204)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H_2SO_4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, strong odour, lots of solids, highly turbid

Analytical Results

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	21.2	≤500	EN0044	Bangkok
COD	mg/L	-	25	117	≤750	EN0046	Bangkok
Oil & Grease	mg/L	-	3	<3	≤10	EN0048	Bangkok
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.6	5.5-9	EN0020	Bangkok
Temperature *	°C	-	-	30.8	≤40	EN0097	Bangkok
Total Suspended Solids	mg/L	-	5	102	≤200	EN0102	Bangkok

Guideline : Industrial Land on Criteria of wastewater discharging to central wastewater treatment plant
Comment : Sampling is not included in scope of accreditation ISO/IEC 17025
Key :
- 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

Signatories

Sirluk Bunnak, Section Head, 1-204-s-0013
Karokkorn Anek, Assistant General Manager, 1-204-e-0004

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

Analysis Report

TESTING No.0009

Work Order	BK2534489	Date Received :	Oct 01, 2025
Client	WHA Utilities and Power Public Company Limited 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported :	Oct 16, 2025
		Report Number :	BK2534489-AA (1)
Project	WHA SIL		
Project Location	Nikon (Thailand) Co.,Ltd._93C_WWT_083_2566		

Sample Number	BK2534489-001
Sampled Date	Oct 01, 2025 11:00 AM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	Nikon (Thailand) Co.,Ltd.
Contract ID	WWT_083_2566
Plot	93C
Date of Analysis	Oct 02, 2025
Sampled by	Panupong Saenot (1-204-s-0204)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, strong odour, lots of solids, highly turbid

Brief Method Summaries

The methods in the analysis report are short format, refer to full test methods in accordance with the ISO/IEC 17025 certificate no. specified in the analysis report.

Method	Testing Lab	Method Descriptions
EN0020	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0097	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B
EN0102	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

——— END OF REPORT ———

Signatories

Sirilak Bunnak, Section Head, 1-204-s-0013
Kanokkorn Anek, Assistant General Manager, 1-204-e-0004

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

Analysis Report

TESTING No.0009

Work Order	BK2534490	Date Received :	Oct 01, 2025
Client	WHA Utilities and Power Public Company Limited 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported :	Oct 16, 2025
		Report Number :	BK2534490-AA (1)
Project	WHA SIL		
Project Location	Noritake SA (Thailand) Co.,Ltd._21_WWT_040_2566		

Sample Number	BK2534490-001
Sampled Date	Oct 01, 2025 10:06 AM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	Noritake SA (Thailand) Co.,Ltd.
Contract ID	WWT_040_2566
Plot	21
Date of Analysis	Oct 02, 2025
Sampled by	Panupong Saenot (1-204-s-0204)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, some odour, some solids, no turbidity

Analytical Results

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	<2.0	≤500	EN0044	Bangkok
COD	mg/L	-	25	<25	≤750	EN0046	Bangkok
Oil & Grease	mg/L	-	3	<3	≤10	EN0048	Bangkok
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.0	5.5-9	EN0020	Bangkok
Temperature *	°C	-	-	28.8	≤40	EN0097	Bangkok
Total Suspended Solids	mg/L	-	5	5	≤200	EN0102	Bangkok

Guideline : Industrial Land on Criteria of wastewater discharging to central wastewater treatment plant
Comment : Sampling is not included in scope of accreditation ISO/IEC 17025
Key :
- 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

Signatories

Sirilak Bunnak, Section Head, 1-204-s-0013
Kanokkorn Anek, Assistant General Manager, 1-204-e-0004

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

Analysis Report

TESTING No.0009

Work Order	BK2534490	Date Received :	Oct 01, 2025
Client	WHA Utilities and Power Public Company Limited 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported :	Oct 16, 2025
		Report Number :	BK2534490-AA (1)
Project	WHA SIL		
Project Location	Noritake SA (Thailand) Co.,Ltd._21_WWT_040_2566		

Sample Number	BK2534490-001
Sampled Date	Oct 01, 2025 10:06 AM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	Noritake SA (Thailand) Co.,Ltd.
Contract ID	WWT_040_2566
Plot	21
Date of Analysis	Oct 02, 2025
Sampled by	Panupong Saenot (1-204-s-0204)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, some odour, some solids, no turbidity

Brief Method Summaries

The methods in the analysis report are short format, refer to full test methods in accordance with the ISO/IEC 17025 certificate no. specified in the analysis report.

Method	Testing Lab	Method Descriptions
EN0020	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0097	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B
EN0102	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

——— END OF REPORT ———

Signatories

Sirilak Bunnak, Section Head, 1-204-s-0013
Kanokkorn Anek, Assistant General Manager, 1-204-e-0004

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

Analysis Report

TESTING No.0009

Work Order	BK2534491	Date Received :	Oct 09, 2025
Client	WHA Utilities and Power Public Company Limited 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported :	Oct 16, 2025
		Report Number :	BK2534491-AA
Project	WHA SIL		
Project Location	Noritake SCG Plaster Co.,Ltd._20_WWT_019_2564		

Sample Number	BK2534491-001
Sampled Date	Oct 09, 2025 11:00 AM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	Noritake SCG Plaster Co.,Ltd.
Contract ID	WWT_019_2564
Plot	20
Date of Analysis	Oct 10, 2025
Sampled by	Panupong Saenot (1-204-s-0204)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, some odour, some solids, no turbidity

Analytical Results

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	4.4	≤500	EN0044	Bangkok
COD	mg/L	-	25	<25	≤750	EN0046	Bangkok
Oil & Grease	mg/L	-	3	<3	≤10	EN0048	Bangkok
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	8.1	5.5-9	EN0020	Bangkok
Temperature *	°C	-	-	31.0	≤40	EN0097	Bangkok
Total Dissolved Solids at 180°C	mg/L	-	5	404	≤3000	EN0100	Bangkok
Total Suspended Solids	mg/L	-	5	<5	≤200	EN0102	Bangkok

Guideline : Industrial Land on Criteria of wastewater discharging to central wastewater treatment plant
Comment : Sampling is not included in scope of accreditation ISO/IEC 17025
Key :
- 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

Signatories

Sirilak Bunnak, Section Head, 1-204-s-0013
Kanokkorn Anek, Assistant General Manager, 1-204-e-0004

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

Analysis Report

TESTING No.0009

Work Order	BK2534491	Date Received :	Oct 09, 2025
Client	WHA Utilities and Power Public Company Limited 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported :	Oct 16, 2025
		Report Number :	BK2534491-AA
Project	WHA SIL		
Project Location	Noritake SCG Plaster Co.,Ltd._20_WWT_019_2564		

Sample Number	BK2534491-001
Sampled Date	Oct 09, 2025 11:00 AM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	Noritake SCG Plaster Co.,Ltd.
Contract ID	WWT_019_2564
Plot	20
Date of Analysis	Oct 10, 2025
Sampled by	Panupong Saenot (1-204-s-0204)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, some odour, some solids, no turbidity

Brief Method Summaries

The methods in the analysis report are short format, refer to full test methods in accordance with the ISO/IEC 17025 certificate no. specified in the analysis report.

Method	Testing Lab	Method Descriptions
EN0020	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0097	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B
EN0100	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C
EN0102	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

——— END OF REPORT ———

Signatories

Sirilak Bunnak, Section Head, 1-204-s-0013
Kanokkorn Anek, Assistant General Manager, 1-204-e-0004

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

Analysis Report

TESTING No.0009

Work Order	BK2534492	Date Received :	Oct 08, 2025
Client	WHA Utilities and Power Public Company Limited 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported :	Oct 16, 2025
		Report Number :	BK2534492-AA
Project	WHA SIL		
Project Location	NX SHOJI (THAILAND) CO., LTD._142/2_WWT_007_2560		

Sample Number	BK2534492-001
Sampled Date	Oct 08, 2025 10:25 AM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	NX SHOJI (THAILAND) CO., LTD.
Contract ID	WWT_007_2560
Plot	142/2
Date of Analysis	Oct 09, 2025
Sampled by	Panupong Saenot (1-204-s-0204)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, strong odour, lots of solids, highly turbid

Analytical Results

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	15.0	≤500	EN0044	Bangkok
COD	mg/L	-	25	78	≤750	EN0046	Bangkok
Oil & Grease	mg/L	-	3	4	≤10	EN0048	Bangkok
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.3	5.5-9	EN0020	Bangkok
Temperature *	°C	-	-	30.9	≤40	EN0097	Bangkok
Total Suspended Solids	mg/L	-	5	48	≤200	EN0102	Bangkok

Guideline : Industrial Land on Criteria of wastewater discharging to central wastewater treatment plant
Comment : Sampling is not included in scope of accreditation ISO/IEC 17025
Key :
- 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

Signatories

Sirilak Bunnak, Section Head, 1-204-s-0013
Kanokkorn Anek, Assistant General Manager, 1-204-e-0004

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Analysis Report

TESTING No.0009

Work Order	BK2534492	Date Received :	Oct 08, 2025
Client	WHA Utilities and Power Public Company Limited 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported :	Oct 16, 2025
		Report Number :	BK2534492-AA
Project	WHA SIL		
Project Location	NX SHOJI (THAILAND) CO., LTD._142/2_WWT_007_2560		

Sample Number	BK2534492-001
Sampled Date	Oct 08, 2025 10:25 AM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	NX SHOJI (THAILAND) CO., LTD.
Contract ID	WWT_007_2560
Plot	142/2
Date of Analysis	Oct 09, 2025
Sampled by	Panupong Saenot (1-204-s-0204)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, strong odour, lots of solids, highly turbid

Brief Method Summaries

The methods in the analysis report are short format, refer to full test methods in accordance with the ISO/IEC 17025 certificate no. specified in the analysis report.

Method	Testing Lab	Method Descriptions
EN0020	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0097	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B
EN0102	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

——— END OF REPORT ———

Signatories

Sirilak Bunnak, Section Head, 1-204-s-0013
Kanokkorn Anek, Assistant General Manager, 1-204-e-0004

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

Analysis Report

TESTING No.0009

Work Order	BK2534493	Date Received :	Oct 08, 2025
Client	WHA Utilities and Power Public Company Limited 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported :	Oct 16, 2025
		Report Number :	BK2534493-AA
Project	WHA SIL		
Project Location	NX SHOJI (THAILAND) CO., LTD._142/4_WWT_008_2560		

Sample Number	BK2534493-001
Sampled Date	Oct 08, 2025 10:30 AM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	NX SHOJI (THAILAND) CO., LTD.
Contract ID	WWT_008_2560
Plot	142/4
Date of Analysis	Oct 09, 2025
Sampled by	Panupong Saenot (1-204-s-0204)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, strong odour, lots of solids, highly turbid

Analytical Results

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	159	≤500	EN0044	Bangkok
COD	mg/L	-	25	340	≤750	EN0046	Bangkok
Oil & Grease	mg/L	-	3	8	≤10	EN0048	Bangkok
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.8	5.5-9	EN0020	Bangkok
Temperature *	°C	-	-	30.8	≤40	EN0097	Bangkok
Total Suspended Solids	mg/L	-	5	196	≤200	EN0102	Bangkok

Guideline : Industrial Land on Criteria of wastewater discharging to central wastewater treatment plant
Comment : Sampling is not included in scope of accreditation ISO/IEC 17025
Key :
- 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

Signatories

Northawadee Somboon, Specialist 2, 1-204-s-0010
Kanokkorn Anek, Assistant General Manager, 1-204-e-0004

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

Analysis Report

TESTING No.0009

Work Order	BK2534493	Date Received :	Oct 08, 2025
Client	WHA Utilities and Power Public Company Limited 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported :	Oct 16, 2025
		Report Number :	BK2534493-AA
Project	WHA SIL		
Project Location	NX SHOJI (THAILAND) CO., LTD._142/4_WWT_008_2560		

Sample Number	BK2534493-001
Sampled Date	Oct 08, 2025 10:30 AM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	NX SHOJI (THAILAND) CO., LTD.
Contract ID	WWT_008_2560
Plot	142/4
Date of Analysis	Oct 09, 2025
Sampled by	Panupong Saenot (1-204-s-0204)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, strong odour, lots of solids, highly turbid

Brief Method Summaries

The methods in the analysis report are short format, refer to full test methods in accordance with the ISO/IEC 17025 certificate no. specified in the analysis report.

Method	Testing Lab	Method Descriptions
EN0020	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0097	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B
EN0102	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

——— END OF REPORT ———

Signatories

Northawadee Somboon, Specialist 2, 1-204-s-0010
Kanokkorn Anek, Assistant General Manager, 1-204-e-0004

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

Analysis Report

ilac-MRA — TESTING No.0009

Work Order	BK2534496	Date Received	Oct 01, 2025
Client	WHA Utilities and Power Public Company Limited, 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported	Oct 16, 2025
Project	WHA SIL	Report Number	BK2534496-AA (1)
Project Location	Ready Clean Co.,Ltd._38_WWT_053_2564		

Sample Number	BK2534496-001
Sampled Date	Oct 01, 2025 09:15 AM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	Ready Clean Co.,Ltd.
Contract ID	WWT_053_2564
Plot	38
Date of Analysis	Oct 02, 2025
Sampled by	Panupong Saenoi (1-204-c-0204)
Condition of Sample	2x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H_2SO_4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, some odour, some solids, turbid

Analytical Results

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	62.5	≤500	EN0044	Bangkok
COD	mg/L	-	25	132	≤750	EN0046	Bangkok
Oil & Grease	mg/L	-	3	8	≤10	EN0048	Bangkok
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.6	5.5-9	EN0020	Bangkok
Temperature *	°C	-	-	29.8	≤40	EN0097	Bangkok
Total Suspended Solids	mg/L	-	5	28	≤200	EN0102	Bangkok

Guideline : Industrial Land on Criteria of wastewater discharging to central wastewater treatment plant
Comment : Sampling is not included in scope of accreditation ISO/IEC 17025
Key :
- 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/IEC17025

Signatories

Sirikit Bunnak	Kanokkorn Anek
Section Head	Assistant General Manager
1-204-c-0013	1-204-e-0004

Analysis Report

ilac-MRA — TESTING No.0009

Work Order	BK2534496	Date Received	Oct 01, 2025
Client	WHA Utilities and Power Public Company Limited, 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported	Oct 16, 2025
Project	WHA SIL	Report Number	BK2534496-AA (1)
Project Location	Ready Clean Co.,Ltd._38_WWT_053_2564		

Sample Number	BK2534496-001
Sampled Date	Oct 01, 2025 09:15 AM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	Ready Clean Co.,Ltd.
Contract ID	WWT_053_2564
Plot	38
Date of Analysis	Oct 02, 2025
Sampled by	Panupong Saenoi (1-204-c-0204)
Condition of Sample	2x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H_2SO_4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, some odour, some solids, turbid

Brief Method Summaries

The methods in the analysis report are short format, refer to full test methods in accordance with the ISO/IEC 17025 certificate no. specified in the analysis report.

Method	Testing Lab	Method Descriptions
EN0020	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0097	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B
EN0102	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

END OF REPORT

Signatories

Sirikit Bunnak	Kanokkorn Anek
Section Head	Assistant General Manager
1-204-c-0013	1-204-e-0004

Analysis Report

ilac-MRA — TESTING No.0009

Work Order	BK2534496	Date Received	Oct 01, 2025
Client	WHA Utilities and Power Public Company Limited, 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported	Oct 16, 2025
Project	WHA SIL	Report Number	BK2534496-AB (1)
Project Location	Ready Clean Co.,Ltd._38_WWT_053_2564		

Sample Number	BK2534496-001
Sampled Date	Oct 01, 2025 09:15 AM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	Ready Clean Co.,Ltd.
Contract ID	WWT_053_2564
Plot	38
Date of Analysis	Oct 02, 2025
Sampled by	Panupong Saenoi
Condition of Sample	2x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H_2SO_4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, some odour, some solids, turbid

Analytical Results

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
Anionic Surfactants as MBAS	mg/L	-	0.05	57.8	≤30	EN0043	Bangkok

Guideline : Industrial Land on Criteria of wastewater discharging to central wastewater treatment plant
Key :
- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)

Brief Method Summaries

The methods in the analysis report are short format, refer to full test methods in accordance with the ISO/IEC 17025 certificate no. specified in the analysis report.

Method	Testing Lab	Method Descriptions
EN0043	Bangkok	Based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5540 B, C.

END OF REPORT

Signatories

Sirikit Bunnak
Section Head

Analysis Report

ilac-MRA — TESTING No.0009

Work Order	BK2534499	Date Received	Oct 01, 2025
Client	WHA Utilities and Power Public Company Limited, 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported	Oct 16, 2025
Project	WHA SIL	Report Number	BK2534499-AA (1)
Project Location	Rohm Mechatech (Thailand) Co.,Ltd._138_WWT_047_2566		

Sample Number	BK2534499-001
Sampled Date	Oct 01, 2025 09:20 AM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	Rohm Mechatech (Thailand) Co.,Ltd.
Contract ID	WWT_047_2566
Plot	138
Date of Analysis	Oct 02, 2025
Sampled by	Anuwat Phulawin (1-204-c-0149)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H_2SO_4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, some odour, some solids, no turbidity

Analytical Results

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	13.9	≤500	EN0044	Bangkok
COD	mg/L	-	25	79	≤750	EN0046	Bangkok
Oil & Grease	mg/L	-	3	<3	≤10	EN0048	Bangkok
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.5	5.5-9	EN0020	Bangkok
Temperature *	°C	-	-	30.2	≤40	EN0097	Bangkok
Total Suspended Solids	mg/L	-	5	24	≤200	EN0102	Bangkok

Guideline : Industrial Land on Criteria of wastewater discharging to central wastewater treatment plant
Comment : Sampling is not included in scope of accreditation ISO/IEC 17025
Key :
- 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/IEC17025

Signatories

Sirikit Bunnak	Kanokkorn Anek
Section Head	Assistant General Manager
1-204-c-0013	1-204-e-0004

Analysis Report

ilac-MRA — TESTING No.0009

Work Order	BK2534499	Date Received	Oct 01, 2025
Client	WHA Utilities and Power Public Company Limited, 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported	Oct 16, 2025
Project	WHA SIL	Report Number	BK2534499-AA (1)
Project Location	Rohm Mechatech (Thailand) Co.,Ltd._138_WWT_047_2566		

Sample Number	BK2534499-001
Sampled Date	Oct 01, 2025 09:20 AM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	Rohm Mechatech (Thailand) Co.,Ltd.
Contract ID	WWT_047_2566
Plot	138
Date of Analysis	Oct 02, 2025
Sampled by	Anuwat Phulawin (1-204-c-0149)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H_2SO_4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, some odour, some solids, no turbidity

Brief Method Summaries

The methods in the analysis report are short format, refer to full test methods in accordance with the ISO/IEC 17025 certificate no. specified in the analysis report.

Method	Testing Lab	Method Descriptions
EN0020	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0097	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B
EN0102	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

END OF REPORT

Signatories

Sirikit Bunnak	Kanokkorn Anek
Section Head	Assistant General Manager
1-204-c-0013	1-204-e-0004

Analysis Report

ilac-MRA — TESTING No.0009

Work Order	BK2534500	Date Received	Oct 01, 2025
Client	WHA Utilities and Power Public Company Limited, 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported	Oct 16, 2025
Project	WHA SIL	Report Number	BK2534500-AA (1)
Project Location	SCG Ceramics Co.,Ltd._91_WWT_001_2560		

Sample Number	BK2534500-001
Sampled Date	Oct 01, 2025 10:25 AM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	SCG Ceramics Co.,Ltd.
Contract ID	WWT_001_2560
Plot	91
Date of Analysis	Oct 02, 2025
Sampled by	Panupong Saenoi (1-204-c-0204)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H_2SO_4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, odourless, some solids, turbid

Analytical Results

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	2.7	≤500	EN0044	Bangkok
COD	mg/L	-	25	<25	≤750	EN0046	Bangkok
Oil & Grease	mg/L	-	3	<3	≤10	EN0048	Bangkok
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.7	5.5-9	EN0020	Bangkok
Temperature *	°C	-	-	29.7	≤40	EN0097	Bangkok
Total Suspended Solids	mg/L	-	5	<5	≤200	EN0102	Bangkok

Guideline : Industrial Land on Criteria of wastewater discharging to central wastewater treatment plant
Comment : Sampling is not included in scope of accreditation ISO/IEC 17025
Key :
- 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/IEC17025

Signatories

Sirikit Bunnak	Kanokkorn Anek
Section Head	Assistant General Manager
1-204-c-0013	1-204-e-0004

Analysis Report

ilac-MRA — TESTING No.0009

Work Order	BK2534500	Date Received	Oct 01, 2025
Client	WHA Utilities and Power Public Company Limited, 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported	Oct 16, 2025
Project	WHA SIL	Report Number	BK2534500-AA (1)
Project Location	SCG Ceramics Co.,Ltd._91_WWT_001_2560		

Sample Number	BK2534500-001
Sampled Date	Oct 01, 2025 10:25 AM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	SCG Ceramics Co.,Ltd.
Contract ID	WWT_001_2560
Plot	91
Date of Analysis	Oct 02, 2025
Sampled by	Panupong Saenoi (1-204-c-0204)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H_2SO_4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, odourless, some solids, turbid

Brief Method Summaries

The methods in the analysis report are short format, refer to full test methods in accordance with the ISO/IEC 17025 certificate no. specified in the analysis report.

Method	Testing Lab	Method Descriptions
EN0020	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0097	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B
EN0102	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

END OF REPORT

Signatories

Sirikit Bunnak	Kanokkorn Anek
Section Head	Assistant General Manager
1-204-c-0013	1-204-e-0004

Analysis Report

ilac-MRA — TESTING No.0009

Work Order	BK2534502	Date Received	Oct 01, 2025
Client	WHA Utilities and Power Public Company Limited, 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported	Oct 16, 2025
Project	WHA SIL	Report Number	BK2534502-AA (1)
Project Location	SCG Landscape_14_WWT_001_2565		

Sample Number	BK2534502-001
Sampled Date	Oct 01, 2025 09:50 AM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	SCG Landscape
Contract ID	WWT_001_2565
Plot	14
Date of Analysis	Oct 02, 2025
Sampled by	Panupong Saenoi (1-204-c-0204)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H_2SO_4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, some odour, some solids, no turbidity

Analytical Results

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	6.8	≤500	EN0044	Bangkok
COD	mg/L	-	25	39	≤750	EN0046	Bangkok
Oil & Grease	mg/L	-	3	<3	≤10	EN0048	Bangkok
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.2	5.5-9	EN0020	Bangkok
Temperature *	°C	-	-	30.8	≤40	EN0097	Bangkok
Total Suspended Solids	mg/L	-	5	14	≤200	EN0102	Bangkok

Guideline : Industrial Land on Criteria of wastewater discharging to central wastewater treatment plant
Comment : Sampling is not included in scope of accreditation ISO/IEC 17025
Key :
- 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/IEC17025

Signatories

Sirikit Bunnak	Kanokkorn Anek
Section Head	Assistant General Manager
1-204-c-0013	1-204-e-0004

Analysis Report

ilac-MRA — TESTING No.0009

Work Order	BK2534502	Date Received	Oct 01, 2025
Client	WHA Utilities and Power Public Company Limited, 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported	Oct 16, 2025
Project	WHA SIL	Report Number	BK2534502-AA (1)
Project Location	SCG Landscape_14_WWT_001_2565		

Sample Number	BK2534502-001
Sampled Date	Oct 01, 2025 09:50 AM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	SCG Landscape
Contract ID	WWT_001_2565
Plot	14
Date of Analysis	Oct 02, 2025
Sampled by	Panupong Saenoi (1-204-c-0204)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H_2SO_4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, some odour, some solids, no turbidity

Brief Method Summaries

The methods in the analysis report are short format, refer to full test methods in accordance with the ISO/IEC 17025 certificate no. specified in the analysis report.

Method	Testing Lab	Method Descriptions
EN0020	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0097	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B
EN0102	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

END OF REPORT

Signatories

Sirikit Bunnak	Kanokkorn Anek
Section Head	Assistant General Manager
1-204-c-0013	1-204-e-0004

Analysis Report

TESTING No.0009

Work Order	BK2534503	Date Received	Oct 01, 2025
Client	WHA Utilities and Power Public Company Limited 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported	Oct 16, 2025
Project	WHA SIL	Report Number	BK2534503-AA (1)
Project Location	SCG Roofing Co.,Ltd._10, 11._WWT_002_2564		

Sample Number	BK2534503-001
Sampled Date	Oct 01, 2025 09:25 AM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	SCG Roofing Co.,Ltd
Contract ID	WWT_002_2564
Plot	10, 11
Date of Analysis	Oct 02, 2025
Sampled by	Panupong Saenot (1-204-c-0204)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, some odour, some solids, no turbidity

Analytical Results

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	<2.0	≤500	EN0044	Bangkok
COD	mg/L	-	25	<25	≤750	EN0046	Bangkok
Oil & Grease	mg/L	-	3	<3	≤10	EN0048	Bangkok
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.4	5.5-9	EN0020	Bangkok
Temperature *	°C	-	-	29.8	≤45	EN0097	Bangkok
Total Suspended Solids	mg/L	-	5	8	≤200	EN0102	Bangkok

Guideline : Industrial Land on Criteria of wastewater discharging to central wastewater treatment plant

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

Key :
- 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/IEC17025

Signatories

Sitthik Bunnak, Section Head, 1-204-c-0013

Kanokkorn Anek, Assistant General Manager, 1-204-e-0004

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

Analysis Report

TESTING No.0009

Work Order	BK2534503	Date Received	Oct 01, 2025
Client	WHA Utilities and Power Public Company Limited 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported	Oct 16, 2025
Project	WHA SIL	Report Number	BK2534503-AA (1)
Project Location	SCG Roofing Co.,Ltd._10, 11._WWT_002_2564		

Sample Number	BK2534503-001
Sampled Date	Oct 01, 2025 09:25 AM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	SCG Roofing Co.,Ltd
Contract ID	WWT_002_2564
Plot	10, 11
Date of Analysis	Oct 02, 2025
Sampled by	Panupong Saenot (1-204-c-0204)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, some odour, some solids, no turbidity

Brief Method Summaries

The methods in the analysis report are short format, refer to full test methods in accordance with the ISO/IEC 17025 certificate no. specified in the analysis report.

Method	Testing Lab	Method Descriptions
EN0020	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0097	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B
EN0102	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

——— END OF REPORT ———

Signatories

Sitthik Bunnak, Section Head, 1-204-c-0013

Kanokkorn Anek, Assistant General Manager, 1-204-e-0004

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

Analysis Report

TESTING No.0009

Work Order	BK2534504	Date Received	Oct 01, 2025
Client	WHA Utilities and Power Public Company Limited 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported	Oct 16, 2025
Project	WHA SIL	Report Number	BK2534504-AA (1)
Project Location	SCG Roofing Co.,Ltd_19.41._WWT_025_2564		

Sample Number	BK2534504-001
Sampled Date	Oct 01, 2025 10:30 AM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	SCG Roofing Co.,Ltd
Contract ID	WWT_025_2564
Plot	19.41
Date of Analysis	Oct 02, 2025
Sampled by	Panupong Saenot (1-204-c-0204)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, some odour, some solids, no turbidity

Analytical Results

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	<2.0	≤500	EN0044	Bangkok
COD	mg/L	-	25	<25	≤750	EN0046	Bangkok
Oil & Grease	mg/L	-	3	<3	≤10	EN0048	Bangkok
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.8	5.5-9	EN0020	Bangkok
Temperature *	°C	-	-	30.3	≤45	EN0097	Bangkok
Total Suspended Solids	mg/L	-	5	<5	≤200	EN0102	Bangkok

Guideline : Industrial Land on Criteria of wastewater discharging to central wastewater treatment plant

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

Key :
- 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/IEC17025

Signatories

Sitthik Bunnak, Section Head, 1-204-c-0013

Kanokkorn Anek, Assistant General Manager, 1-204-e-0004

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

Analysis Report

TESTING No.0009

Work Order	BK2534504	Date Received	Oct 01, 2025
Client	WHA Utilities and Power Public Company Limited 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported	Oct 16, 2025
Project	WHA SIL	Report Number	BK2534504-AA (1)
Project Location	SCG Roofing Co.,Ltd._19.41._WWT_025_2564		

Sample Number	BK2534504-001
Sampled Date	Oct 01, 2025 10:30 AM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	SCG Roofing Co.,Ltd
Contract ID	WWT_025_2564
Plot	19.41
Date of Analysis	Oct 02, 2025
Sampled by	Panupong Saenot (1-204-c-0204)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, some odour, some solids, no turbidity

Brief Method Summaries

The methods in the analysis report are short format, refer to full test methods in accordance with the ISO/IEC 17025 certificate no. specified in the analysis report.

Method	Testing Lab	Method Descriptions
EN0020	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0097	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B
EN0102	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

——— END OF REPORT ———

Signatories

Sitthik Bunnak, Section Head, 1-204-c-0013

Kanokkorn Anek, Assistant General Manager, 1-204-e-0004

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

Analysis Report

TESTING No.0009

Work Order	BK2534506	Date Received	Oct 01, 2025
Client	WHA Utilities and Power Public Company Limited 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported	Oct 16, 2025
Project	WHA SIL	Report Number	BK2534506-AA (1)
Project Location	Scholmi Technology (Thailand) Company Limited_27D._WWT_006_2568		

Sample Number	BK2534506-001
Sampled Date	Oct 01, 2025 11:40 AM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	Scholmi Technology (Thailand) Company Limited
Contract ID	WWT_006_2568
Plot	27D
Date of Analysis	Oct 02, 2025
Sampled by	Panupong Saenot (1-204-c-0204)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, some odour, some solids, turbid

Analytical Results

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	20.0	≤500	EN0044	Bangkok
COD	mg/L	-	25	117	≤750	EN0046	Bangkok
Oil & Grease	mg/L	-	3	<3	≤10	EN0048	Bangkok
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.7	5.5-9	EN0020	Bangkok
Temperature *	°C	-	-	30.7	≤45	EN0097	Bangkok
Total Suspended Solids	mg/L	-	5	32	≤200	EN0102	Bangkok

Guideline : Industrial Land on Criteria of wastewater discharging to central wastewater treatment plant

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

Key :
- 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/IEC17025

Signatories

Sitthik Bunnak, Section Head, 1-204-c-0013

Kanokkorn Anek, Assistant General Manager, 1-204-e-0004

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

Analysis Report

TESTING No.0009

Work Order	BK2534506	Date Received	Oct 01, 2025
Client	WHA Utilities and Power Public Company Limited 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported	Oct 16, 2025
Project	WHA SIL	Report Number	BK2534506-AA (1)
Project Location	Scholmi Technology (Thailand) Company Limited_27D._WWT_006_2568		

Sample Number	BK2534506-001
Sampled Date	Oct 01, 2025 11:40 AM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	Scholmi Technology (Thailand) Company Limited
Contract ID	WWT_006_2568
Plot	27D
Date of Analysis	Oct 02, 2025
Sampled by	Panupong Saenot (1-204-c-0204)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, some odour, some solids, turbid

Brief Method Summaries

The methods in the analysis report are short format, refer to full test methods in accordance with the ISO/IEC 17025 certificate no. specified in the analysis report.

Method	Testing Lab	Method Descriptions
EN0020	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0097	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B
EN0102	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

——— END OF REPORT ———

Signatories

Sitthik Bunnak, Section Head, 1-204-c-0013

Kanokkorn Anek, Assistant General Manager, 1-204-e-0004

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

Analysis Report

TESTING No.0009

Work Order	BK2534511	Date Received	Oct 01, 2025
Client	WHA Utilities and Power Public Company Limited 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported	Oct 16, 2025
Project	WHA SIL	Report Number	BK2534511-AA (1)
Project Location	SEKI Corp (Thailand) Co.,Ltd._81,82._WWT_015_2566		

Sample Number	BK2534511-001
Sampled Date	Oct 01, 2025 10:50 AM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	SEKI Corp (Thailand) Co.,Ltd.
Contract ID	WWT_015_2566
Plot	81,82
Date of Analysis	Oct 02, 2025
Sampled by	Pichai Boonyong (1-204-c-0062)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, strong odour, lots of solids, turbid

Analytical Results

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	109	≤500	EN0044	Bangkok
COD	mg/L	-	25	212	≤750	EN0046	Bangkok
Oil & Grease	mg/L	-	3	<3	≤10	EN0048	Bangkok
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.6	5.5-9	EN0020	Bangkok
Temperature *	°C	-	-	30.3	≤45	EN0097	Bangkok
Total Suspended Solids	mg/L	-	5	48	≤200	EN0102	Bangkok

Guideline : Industrial Land on Criteria of wastewater discharging to central wastewater treatment plant

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

Key :
- 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/IEC17025

Signatories

Sitthik Bunnak, Section Head, 1-204-c-0013

Kanokkorn Anek, Assistant General Manager, 1-204-e-0004

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

Analysis Report

TESTING No.0009

Work Order	BK2534511	Date Received	Oct 01, 2025
Client	WHA Utilities and Power Public Company Limited 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported	Oct 16, 2025
Project	WHA SIL	Report Number	BK2534511-AA (1)
Project Location	SEKI Corp (Thailand) Co.,Ltd._81,82._WWT_015_2566		

Sample Number	BK2534511-001
Sampled Date	Oct 01, 2025 10:50 AM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	SEKI Corp (Thailand) Co.,Ltd.
Contract ID	WWT_015_2566
Plot	81,82
Date of Analysis	Oct 02, 2025
Sampled by	Pichai Boonyong (1-204-c-0062)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, strong odour, lots of solids, turbid

Brief Method Summaries

The methods in the analysis report are short format, refer to full test methods in accordance with the ISO/IEC 17025 certificate no. specified in the analysis report.

Method	Testing Lab	Method Descriptions
EN0020	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0097	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B
EN0102	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

——— END OF REPORT ———

Signatories

Sitthik Bunnak, Section Head, 1-204-c-0013

Kanokkorn Anek, Assistant General Manager, 1-204-e-0004

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

Analysis Report

TESTING No.0009

Work Order	BK2534512	Date Received	Oct 01, 2025
Client	WHA Utilities and Power Public Company Limited 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported	Oct 16, 2025
Project	WHA SIL	Report Number	BK2534512-AA (1)
Project Location	Sekisui Plastics (Thailand) Co.,Ltd._66._WWT_057_2566		

Sample Number	BK2534512-001
Sampled Date	Oct 01, 2025 11:20 AM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	Sekisui Plastics (Thailand) Co.,Ltd.
Contract ID	WWT_057_2566
Plot	66
Date of Analysis	Oct 02, 2025
Sampled by	Pichai Boonyong (1-204-c-0062)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, some odour, some solids, no turbidity

Analytical Results

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	4.3	≤500	EN0044	Bangkok
COD	mg/L	-	25	27	≤750	EN0046	Bangkok
Oil & Grease	mg/L	-	3	7	≤10	EN0048	Bangkok
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	6.7	5.5-9	EN0020	Bangkok
Temperature *	°C	-	-	36.4	≤45	EN0097	Bangkok
Total Suspended Solids	mg/L	-	5	<5	≤200	EN0102	Bangkok

Guideline : Industrial Land on Criteria of wastewater discharging to central wastewater treatment plant

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

Key :
- 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/IEC17025

Signatories

Sitthik Bunnak, Section Head, 1-204-c-0013

Kanokkorn Anek, Assistant General Manager, 1-204-e-0004

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.

TESTING No.0009

Analysis Report

Work Order :	**BK2534512**	Date Received :	Oct 01, 2025
Client :	WHA Utilities and Power Public Company Limited	Date Reported :	Oct 16, 2025
	111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Report Number :	BK2534512-AA (1)
Project :	WHA SIL		
Project Location :	Sekisui Plastics (Thailand) Co.,Ltd._88_WWT_057_2566		

Sample Number	BK2534512-001
Sampled Date	Oct 01, 2025 11:20 AM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	Sekisui Plastics (Thailand) Co.,Ltd.
Contract ID	WWT_057_2566
Plot	88
Date of Analysis	Oct 02, 2025
Sampled by	Pichai Boonyong (1-204-s-0082)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H_2SO_4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, some odour, some solids, no turbidity

Brief Method Summaries

The methods in the analysis report are short format, refer to full test methods in accordance with the ISO/IEC 17025 certificate no. specified in the analysis report.

Method	*Testing Lab*	*Method Descriptions*
EN0020	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0097	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B
EN0102	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

——— END OF REPORT ———

Signatories

Sirilak Burirak, Section Head, 1-204-s-0013

Kanokkorn Anek, Assistant General Manager, 1-204-e-0004

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.

TESTING No.0009

Analysis Report

Work Order :	**BK2534514**	Date Received :	Oct 01, 2025
Client :	WHA Utilities and Power Public Company Limited	Date Reported :	Oct 16, 2025
	111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Report Number :	BK2534514-AA (1)
Project :	WHA SIL		
Project Location :	Sekisui-SCG Industrial Co.,Ltd._144,145_WWT_071_2567		

Sample Number	BK2534514-001
Sampled Date	Oct 01, 2025 01:40 PM
Sample Name	Group 2 Wastewater WW-CT : Point 1
Sampling Site	Sekisui-SCG Industrial Co.,Ltd.
Contract ID	WWT_071_2567
Plot	144,145
Date of Analysis	Oct 02, 2025
Sampled by	Pichai Boonyong (1-204-s-0082)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H_2SO_4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, odourless, some solids, no turbidity

Analytical Results

Analyte	*Unit*	*LOD*	*LOQ*	*Result*	*Guideline*	*Method*	*Testing Lab*
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	<2.0	≤500	EN0044	Bangkok
COD	mg/L	-	25	<25	≤750	EN0046	Bangkok
Oil & Grease	mg/L	-	3	<3	≤10	EN0048	Bangkok
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.6	5.5-9	EN0020	Bangkok
Temperature *	°C	-	-	30.6	≤40	EN0097	Bangkok
Total Suspended Solids	mg/L	-	5	<5	≤200	EN0102	Bangkok

Guideline : Industrial Land on Criteria of wastewater discharging to central wastewater treatment plant

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

Key :
- 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

Signatories

Sirilak Burirak, Section Head, 1-204-s-0013

Kanokkorn Anek, Assistant General Manager, 1-204-e-0004

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.

TESTING No.0009

Analysis Report

Work Order :	**BK2534514**	Date Received :	Oct 01, 2025
Client :	WHA Utilities and Power Public Company Limited	Date Reported :	Oct 16, 2025
	111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Report Number :	BK2534514-AA (1)
Project :	WHA SIL		
Project Location :	Sekisui-SCG Industrial Co.,Ltd._144,145_WWT_071_2567		

Sample Number	BK2534514-001
Sampled Date	Oct 01, 2025 01:40 PM
Sample Name	Group 2 Wastewater WW-CT : Point 1
Sampling Site	Sekisui-SCG Industrial Co.,Ltd.
Contract ID	WWT_071_2567
Plot	144,145
Date of Analysis	Oct 02, 2025
Sampled by	Pichai Boonyong (1-204-s-0082)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H_2SO_4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, odourless, some solids, no turbidity

Brief Method Summaries

The methods in the analysis report are short format, refer to full test methods in accordance with the ISO/IEC 17025 certificate no. specified in the analysis report.

Method	*Testing Lab*	*Method Descriptions*
EN0020	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0097	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B
EN0102	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

——— END OF REPORT ———

Signatories

Sirilak Burirak, Section Head, 1-204-s-0013

Kanokkorn Anek, Assistant General Manager, 1-204-e-0004

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.

TESTING No.0009

Analysis Report

Work Order :	**BK2534515**	Date Received :	Oct 01, 2025
Client :	WHA Utilities and Power Public Company Limited	Date Reported :	Oct 16, 2025
	111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Report Number :	BK2534515-AA (1)
Project :	WHA SIL		
Project Location :	Sekisui-SCG Industrial Co.,Ltd._144,145_WWT_006_2568		

Sample Number	BK2534515-001
Sampled Date	Oct 01, 2025 01:30 PM
Sample Name	Group 2 Wastewater WW-CT : Point 2
Sampling Site	Sekisui-SCG Industrial Co.,Ltd.
Contract ID	WWT_006_2568
Plot	144,145
Date of Analysis	Oct 02, 2025
Sampled by	Pichai Boonyong (1-204-s-0082)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H_2SO_4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, odourless, some solids, no turbidity

Analytical Results

Analyte	*Unit*	*LOD*	*LOQ*	*Result*	*Guideline*	*Method*	*Testing Lab*
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	<2.0	≤500	EN0044	Bangkok
COD	mg/L	-	25	<25	≤750	EN0046	Bangkok
Oil & Grease	mg/L	-	3	<3	≤10	EN0048	Bangkok
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.7	5.5-9	EN0020	Bangkok
Temperature *	°C	-	-	31.5	≤40	EN0097	Bangkok
Total Suspended Solids	mg/L	-	5	<5	≤200	EN0102	Bangkok

Guideline : Industrial Land on Criteria of wastewater discharging to central wastewater treatment plant

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

Key :
- 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

Signatories

Sirilak Burirak, Section Head, 1-204-s-0013

Kanokkorn Anek, Assistant General Manager, 1-204-e-0004

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.

TESTING No.0009

Analysis Report

Work Order :	**BK2534515**	Date Received :	Oct 01, 2025
Client :	WHA Utilities and Power Public Company Limited	Date Reported :	Oct 16, 2025
	111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Report Number :	BK2534515-AA (1)
Project :	WHA SIL		
Project Location :	Sekisui-SCG Industrial Co.,Ltd._144,145_WWT_006_2568		

Sample Number	BK2534515-001
Sampled Date	Oct 01, 2025 01:30 PM
Sample Name	Group 2 Wastewater WW-CT : Point 2
Sampling Site	Sekisui-SCG Industrial Co.,Ltd.
Contract ID	WWT_006_2568
Plot	144,145
Date of Analysis	Oct 02, 2025
Sampled by	Pichai Boonyong (1-204-s-0082)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H_2SO_4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, odourless, some solids, no turbidity

Brief Method Summaries

The methods in the analysis report are short format, refer to full test methods in accordance with the ISO/IEC 17025 certificate no. specified in the analysis report.

Method	*Testing Lab*	*Method Descriptions*
EN0020	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0097	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B
EN0102	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

——— END OF REPORT ———

Signatories

Sirilak Burirak, Section Head, 1-204-s-0013

Kanokkorn Anek, Assistant General Manager, 1-204-e-0004

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.

TESTING No.0009

Analysis Report

Work Order :	**BK2534516**	Date Received :	Oct 01, 2025
Client :	WHA Utilities and Power Public Company Limited	Date Reported :	Oct 16, 2025
	111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Report Number :	BK2534516-AA (1)
Project :	WHA SIL		
Project Location :	Shibakawa (Thailand) Co.,Ltd._99_WWT_068_2567		

Sample Number	BK2534516-001
Sampled Date	Oct 01, 2025 11:15 AM
Sample Name	Group 2 Wastewater WW-CT : Point 2
Sampling Site	Shibakawa (Thailand) Co.,Ltd.
Contract ID	WWT_068_2567
Plot	99
Date of Analysis	Oct 02, 2025
Sampled by	Pichai Boonyong (1-204-s-0082)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H_2SO_4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, some odour, some solids, no turbidity

Analytical Results

Analyte	*Unit*	*LOD*	*LOQ*	*Result*	*Guideline*	*Method*	*Testing Lab*
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	13.5	≤500	EN0044	Bangkok
COD	mg/L	-	25	80	≤750	EN0046	Bangkok
Oil & Grease	mg/L	-	3	<3	≤10	EN0048	Bangkok
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.8	5.5-9	EN0020	Bangkok
Temperature *	°C	-	-	30.3	≤40	EN0097	Bangkok
Total Suspended Solids	mg/L	-	5	8	≤200	EN0102	Bangkok

Guideline : Industrial Land on Criteria of wastewater discharging to central wastewater treatment plant

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

Key :
- 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

Signatories

Sirilak Burirak, Section Head, 1-204-s-0013

Kanokkorn Anek, Assistant General Manager, 1-204-e-0004

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.

TESTING No.0009

Analysis Report

Work Order :	**BK2534516**	Date Received :	Oct 01, 2025
Client :	WHA Utilities and Power Public Company Limited	Date Reported :	Oct 16, 2025
	111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Report Number :	BK2534516-AA (1)
Project :	WHA SIL		
Project Location :	Shibakawa (Thailand) Co.,Ltd._99_WWT_068_2567		

Sample Number	BK2534516-001
Sampled Date	Oct 01, 2025 11:15 AM
Sample Name	Group 2 Wastewater WW-CT : Point 2
Sampling Site	Shibakawa (Thailand) Co.,Ltd.
Contract ID	WWT_068_2567
Plot	99
Date of Analysis	Oct 02, 2025
Sampled by	Pichai Boonyong (1-204-s-0082)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H_2SO_4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, some odour, some solids, no turbidity

Brief Method Summaries

The methods in the analysis report are short format, refer to full test methods in accordance with the ISO/IEC 17025 certificate no. specified in the analysis report.

Method	*Testing Lab*	*Method Descriptions*
EN0020	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0097	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B
EN0102	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

——— END OF REPORT ———

Signatories

Sirilak Burirak, Section Head, 1-204-s-0013

Kanokkorn Anek, Assistant General Manager, 1-204-e-0004

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.

TESTING No.0009

Analysis Report

Work Order :	**BK2534518**	Date Received :	Oct 01, 2025
Client :	WHA Utilities and Power Public Company Limited	Date Reported :	Oct 16, 2025
	111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Report Number :	BK2534518-AA (1)
Project :	WHA SIL		
Project Location :	Shinwatech (WCT Co.,Ltd.)_150_WWT_081_2567		

Sample Number	BK2534518-001
Sampled Date	Oct 01, 2025 11:25 AM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	Shinwatech (WCT Co.,Ltd.)
Contract ID	WWT_081_2567
Plot	150
Date of Analysis	Oct 02, 2025
Sampled by	Pichai Boonyong (1-204-s-0082)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H_2SO_4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, odourless, some solids, no turbidity

Analytical Results

Analyte	*Unit*	*LOD*	*LOQ*	*Result*	*Guideline*	*Method*	*Testing Lab*
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	<2.0	≤500	EN0044	Bangkok
COD	mg/L	-	25	<25	≤750	EN0046	Bangkok
Oil & Grease	mg/L	-	3	<3	≤10	EN0048	Bangkok
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.8	5.5-9	EN0020	Bangkok
Temperature *	°C	-	-	30.1	≤40	EN0097	Bangkok
Total Suspended Solids	mg/L	-	5	43	≤200	EN0102	Bangkok

Guideline : Industrial Land on Criteria of wastewater discharging to central wastewater treatment plant

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

Key :
- 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

Signatories

Sirilak Burirak, Section Head, 1-204-s-0013

Kanokkorn Anek, Assistant General Manager, 1-204-e-0004

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.

TESTING No.0009

Analysis Report

Work Order :	**BK2534518**	Date Received :	Oct 01, 2025
Client :	WHA Utilities and Power Public Company Limited	Date Reported :	Oct 16, 2025
	111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Report Number :	BK2534518-AA (1)
Project :	WHA SIL		
Project Location :	Shinwatech (WCT Co.,Ltd.)_150_WWT_081_2567		

Sample Number	BK2534518-001
Sampled Date	Oct 01, 2025 11:25 AM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	Shinwatech (WCT Co.,Ltd.)
Contract ID	WWT_081_2567
Plot	150
Date of Analysis	Oct 02, 2025
Sampled by	Pichai Boonyong (1-204-s-0082)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H_2SO_4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, odourless, some solids, no turbidity

Brief Method Summaries

The methods in the analysis report are short format, refer to full test methods in accordance with the ISO/IEC 17025 certificate no. specified in the analysis report.

Method	*Testing Lab*	*Method Descriptions*
EN0020	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0097	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B
EN0102	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

——— END OF REPORT ———

Signatories

Sirilak Burirak, Section Head, 1-204-s-0013

Kanokkorn Anek, Assistant General Manager, 1-204-e-0004

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

Analysis Report

TESTING No.0009

Work Order	BK2534519	Date Received	Oct 01, 2025
Client	WHA Utilities and Power Public Company Limited, 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported	Oct 16, 2025
Project	WHA SIL	Report Number	BK2534519-AA (1)
Project Location	SIAM FIBERGLASS COMPANY LIMITED_8_ WWT_052_2564		

Sample Number	BK2534519-001
Sampled Date	Oct 01, 2025 09:10 AM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	SIAM FIBERGLASS COMPANY LIMITED
Contract ID	WWT_052_2564
Plot	8
Date of Analysis	Oct 02, 2025
Sampled by	Panupong Saensri (1-204-s-0204)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H_2SO_4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, some odour, some solids, turbid

Analytical Results

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	13.7	≤500	EN0044	Bangkok
COD	mg/L	-	25	75	≤750	EN0046	Bangkok
Formaldehyde	mg/L	0.03	0.1	0.2	≤1	EN0010	Bangkok
Oil & Grease	mg/L	-	3	<3	≤10	EN0048	Bangkok
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.8	5.5-9	EN0020	Bangkok
Temperature *	°C	-	-	29.7	≤40	EN0097	Bangkok
Total Suspended Solids	mg/L	-	5	11	≤200	EN0102	Bangkok

Guideline : Industrial Land on Criteria of wastewater discharging to central wastewater treatment plant

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

Key :
- 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

Signatories

Siriluk Burnak, Section Head, 1-204-s-0013 — Kanokkorn Anek, Assistant General Manager, 1-204-e-0004

Analysis Report

TESTING No.0009

Work Order	BK2534519	Date Received	Oct 01, 2025
Client	WHA Utilities and Power Public Company Limited, 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported	Oct 16, 2025
Project	WHA SIL	Report Number	BK2534519-AA (1)
Project Location	SIAM FIBERGLASS COMPANY LIMITED_8_ WWT_052_2564		

Sample Number	BK2534519-001
Sampled Date	Oct 01, 2025 09:10 AM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	SIAM FIBERGLASS COMPANY LIMITED
Contract ID	WWT_052_2564
Plot	8
Date of Analysis	Oct 02, 2025
Sampled by	Panupong Saensri (1-204-s-0204)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H_2SO_4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, some odour, some solids, turbid

Brief Method Summaries

The methods in the analysis report are short format, refer to full test methods in accordance with the ISO/IEC 17025 certificate no. specified in the analysis report.

Method	Testing Lab	Method Descriptions
EN0010	Bangkok	Wastewater analysis manual, Environmental Engineering Association of Thailand, 4th ed., 2004
EN0020	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0097	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B
EN0102	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

—— END OF REPORT ——

Signatories

Siriluk Burnak, Section Head, 1-204-s-0013 — Kanokkorn Anek, Assistant General Manager, 1-204-e-0004

Analysis Report

TESTING No.0009

Work Order	BK2534520	Date Received	Oct 01, 2025
Client	WHA Utilities and Power Public Company Limited, 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported	Oct 16, 2025
Project	WHA SIL	Report Number	BK2534520-AA (1)
Project Location	Siam Furukawa Co.,Ltd._31_ WWT_010_2560		

Sample Number	BK2534520-001
Sampled Date	Oct 01, 2025 09:15 AM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	Siam Furukawa Co.,Ltd.
Contract ID	WWT_010_2560
Plot	31
Date of Analysis	Oct 02, 2025
Sampled by	Pichai Boonyong (1-204-s-0082)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H_2SO_4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, strong odour, lots of solids, highly turbid

Analytical Results

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	21.7	≤500	EN0044	Bangkok
COD	mg/L	-	25	155	≤750	EN0046	Bangkok
Oil & Grease	mg/L	-	3	8	≤10	EN0048	Bangkok
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.3	5.5-9	EN0020	Bangkok
Temperature *	°C	-	-	30.0	≤40	EN0097	Bangkok
Total Suspended Solids	mg/L	-	5	78	≤200	EN0102	Bangkok

Guideline : Industrial Land on Criteria of wastewater discharging to central wastewater treatment plant

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

Key :
- 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

Signatories

Siriluk Burnak, Section Head, 1-204-s-0013 — Kanokkorn Anek, Assistant General Manager, 1-204-e-0004

Analysis Report

TESTING No.0009

Work Order	BK2534520	Date Received	Oct 01, 2025
Client	WHA Utilities and Power Public Company Limited, 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported	Oct 16, 2025
Project	WHA SIL	Report Number	BK2534520-AA (1)
Project Location	Siam Furukawa Co.,Ltd._31_ WWT_010_2560		

Sample Number	BK2534520-001
Sampled Date	Oct 01, 2025 09:15 AM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	Siam Furukawa Co.,Ltd.
Contract ID	WWT_010_2560
Plot	31
Date of Analysis	Oct 02, 2025
Sampled by	Pichai Boonyong (1-204-s-0082)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H_2SO_4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, strong odour, lots of solids, highly turbid

Brief Method Summaries

The methods in the analysis report are short format, refer to full test methods in accordance with the ISO/IEC 17025 certificate no. specified in the analysis report.

Method	Testing Lab	Method Descriptions
EN0020	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0097	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B
EN0102	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

—— END OF REPORT ——

Signatories

Siriluk Burnak, Section Head, 1-204-s-0013 — Kanokkorn Anek, Assistant General Manager, 1-204-e-0004

Analysis Report

TESTING No.0009

Work Order	BK2534521	Date Received	Oct 01, 2025
Client	WHA Utilities and Power Public Company Limited, 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported	Oct 16, 2025
Project	WHA SIL	Report Number	BK2534521-AA (1)
Project Location	Siam Furukawa Co.,Ltd._55_ WWT_022_2564		

Sample Number	BK2534521-001
Sampled Date	Oct 01, 2025 09:10 AM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	Siam Furukawa Co.,Ltd.
Contract ID	WWT_022_2564
Plot	55
Date of Analysis	Oct 02, 2025
Sampled by	Pichai Boonyong (1-204-s-0082)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H_2SO_4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, strong odour, lots of solids, highly turbid

Analytical Results

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	69.2	≤500	EN0044	Bangkok
COD	mg/L	-	25	184	≤750	EN0046	Bangkok
Oil & Grease	mg/L	-	3	8	≤10	EN0048	Bangkok
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.9	5.5-9	EN0020	Bangkok
Temperature *	°C	-	-	31.3	≤40	EN0097	Bangkok
Total Suspended Solids	mg/L	-	5	44	≤200	EN0102	Bangkok

Guideline : Industrial Land on Criteria of wastewater discharging to central wastewater treatment plant

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

Key :
- 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

Signatories

Siriluk Burnak, Section Head, 1-204-s-0013 — Kanokkorn Anek, Assistant General Manager, 1-204-e-0004

Analysis Report

TESTING No.0009

Work Order	BK2534521	Date Received	Oct 01, 2025
Client	WHA Utilities and Power Public Company Limited, 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported	Oct 16, 2025
Project	WHA SIL	Report Number	BK2534521-AA (1)
Project Location	Siam Furukawa Co.,Ltd._55_ WWT_022_2564		

Sample Number	BK2534521-001
Sampled Date	Oct 01, 2025 09:10 AM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	Siam Furukawa Co.,Ltd.
Contract ID	WWT_022_2564
Plot	55
Date of Analysis	Oct 02, 2025
Sampled by	Pichai Boonyong (1-204-s-0082)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H_2SO_4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, strong odour, lots of solids, highly turbid

Brief Method Summaries

The methods in the analysis report are short format, refer to full test methods in accordance with the ISO/IEC 17025 certificate no. specified in the analysis report.

Method	Testing Lab	Method Descriptions
EN0020	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0097	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B
EN0102	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

—— END OF REPORT ——

Signatories

Siriluk Burnak, Section Head, 1-204-s-0013 — Kanokkorn Anek, Assistant General Manager, 1-204-e-0004

Analysis Report

TESTING No.0009

Work Order	BK2534522	Date Received	Oct 08, 2025
Client	WHA Utilities and Power Public Company Limited, 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported	Oct 16, 2025
Project	WHA SIL	Report Number	BK2534522-AA
Project Location	Siam Furukawa Co.,Ltd. (2nd)_89_ WWT_050_2564		

Sample Number	BK2534522-001
Sampled Date	Oct 08, 2025 11:00 AM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	Siam Furukawa Co.,Ltd. (2nd)
Contract ID	WWT_050_2564
Plot	89
Date of Analysis	Oct 08, 2025
Sampled by	Panupong Saensri (1-204-s-0204)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H_2SO_4, 1x Oil & Grease, 1x Logsheet data, 1x Plastic Bottle - Preserved with HNO_3, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, some odour, some solids, no turbidity

Analytical Results

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	2.5	≤500	EN0044	Bangkok
COD	mg/L	-	25	<25	≤750	EN0046	Bangkok
Oil & Grease	mg/L	-	3	<3	≤10	EN0048	Bangkok
Metals and Major Cations - Total							
Lead	mg/L	0.0003	0.0009	0.0689	≤0.2	ME0002	Bangkok
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.9	5.5-9	EN0020	Bangkok
Temperature *	°C	-	-	30.4	≤40	EN0097	Bangkok
Total Dissolved Solids at 180°C	mg/L	-	5	476	≤3000	EN0100	Bangkok
Total Suspended Solids	mg/L	-	5	<5	≤200	EN0102	Bangkok

Guideline : Industrial Land on Criteria of wastewater discharging to central wastewater treatment plant

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

Key :
- 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

Signatories

Sowitree Nobangiam, Manager, 1-204-s-0007 — Kanokkorn Anek, Assistant General Manager, 1-204-e-0004

Analysis Report

TESTING No.0009

Work Order	BK2534522	Date Received	Oct 08, 2025
Client	WHA Utilities and Power Public Company Limited, 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported	Oct 16, 2025
Project	WHA SIL	Report Number	BK2534522-AA
Project Location	Siam Furukawa Co.,Ltd. (2nd)_89_ WWT_050_2564		

Sample Number	BK2534522-001
Sampled Date	Oct 08, 2025 11:00 AM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	Siam Furukawa Co.,Ltd. (2nd)
Contract ID	WWT_050_2564
Plot	89
Date of Analysis	Oct 08, 2025
Sampled by	Panupong Saensri (1-204-s-0204)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H_2SO_4, 1x Oil & Grease, 1x Logsheet data, 1x Plastic Bottle - Preserved with HNO_3, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, some odour, some solids, no turbidity

Brief Method Summaries

The methods in the analysis report are short format, refer to full test methods in accordance with the ISO/IEC 17025 certificate no. specified in the analysis report.

Method	Testing Lab	Method Descriptions
EN0020	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0097	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B
EN0100	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C
EN0102	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D
ME0002	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F

—— END OF REPORT ——

Signatories

Sowitree Nobangiam, Manager, 1-204-s-0007 — Kanokkorn Anek, Assistant General Manager, 1-204-e-0004

Analysis Report

TESTING No.0009

Work Order	BK2534523	Date Received	Oct 01, 2025
Client	WHA Utilities and Power Public Company Limited, 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported	Oct 17, 2025
Project	WHA SIL	Report Number	BK2534523-AA
Project Location	Siam Furukawa Co.,Ltd.(1st)_89_ WWT_050_2564		

Sample Number	BK2534523-001
Sampled Date	Oct 01, 2025 09:30 AM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	Siam Furukawa Co.,Ltd.(1st)
Contract ID	WWT_050_2564
Plot	89
Date of Analysis	Oct 02, 2025
Sampled by	Pichai Boonyong (1-204-s-0082)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H_2SO_4, 1x Oil & Grease, 1x Logsheet data, 1x Plastic Bottle - Preserved with HNO_3, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, odourless, some solids, no turbidity

Analytical Results

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	4.2	≤500	EN0044	Bangkok
COD	mg/L	-	25	27	≤750	EN0046	Bangkok
Oil & Grease	mg/L	-	3	<3	≤10	EN0048	Bangkok
Metals and Major Cations - Total							
Lead	mg/L	0.0003	0.0009	0.0179	≤0.2	ME0002	Bangkok
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.8	5.5-9	EN0020	Bangkok
Temperature *	°C	-	-	28.8	≤40	EN0097	Bangkok
Total Dissolved Solids at 180°C	mg/L	-	5	1304	≤3000	EN0100	Bangkok
Total Suspended Solids	mg/L	-	5	<5	≤200	EN0102	Bangkok

Guideline : Industrial Land on Criteria of wastewater discharging to central wastewater treatment plant

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

Key :
- 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

Signatories

Sowitree Nobangiam, Manager, 1-204-s-0007 — Kanokkorn Anek, Assistant General Manager, 1-204-e-0004

Analysis Report

TESTING No.0009

Work Order	BK2534523	Date Received	Oct 01, 2025
Client	WHA Utilities and Power Public Company Limited 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported	Oct 17, 2025
Project	WHA SIL	Report Number	BK2534523-AA
Project Location	Siam Furukawa Co.,Ltd (1st)_89_WWT_060_2564		

Sample Number	BK2534523-001
Sampled Date	Oct 01, 2025 09:30 AM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	Siam Furukawa Co.,Ltd (1st)
Contract ID	WWT_060_2564
Plot	89
Date of Analysis	Oct 02, 2025
Sampled by	Pichai Boonyong (1-204-s-0062)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H_2SO_4, 1x Oil & Grease, 1x Logsheet data, 1x Plastic Bottle - Preserved with HNO_3, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, odourless, some solids, no turbidity

Brief Method Summaries

The methods in the analysis report are short format, refer to full test methods in accordance with the ISO/IEC 17025 certificate no. specified in the analysis report.

Method	Testing Lab	Method Descriptions
EN0020	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0097	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B
EN0100	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C
EN0102	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D
ME0002	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F

——— END OF REPORT ———

Signatories

Sukitree Nobsengiam, Manager, 1-204-s-0007

Kanokkorn Anek, Assistant General Manager, 1-204-e-0004

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

Analysis Report

TESTING No.0009

Work Order	BK2534524	Date Received	Oct 01, 2025
Client	WHA Utilities and Power Public Company Limited 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported	Oct 16, 2025
Project	WHA SIL	Report Number	BK2534524-AA (1)
Project Location	Siam Gypsum Industry (Saraburi) Co.,Ltd._9,15_WWT_018_2564		

Sample Number	BK2534524-001
Sampled Date	Oct 01, 2025 09:40 AM
Sample Name	Group 2 Wastewater WW-CT : Factory 1
Sampling Site	Siam Gypsum Industry (Saraburi) Co.,Ltd.
Contract ID	WWT_018_2564
Plot	9,15
Date of Analysis	Oct 02, 2025
Sampled by	Panupong Saenoi (1-204-s-0204)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H_2SO_4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, some odour, some solids, turbid

Analytical Results

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	3.3	≤500	EN0044	Bangkok
COD	mg/L	-	25	<25	≤750	EN0046	Bangkok
Oil & Grease	mg/L	-	3	<3	≤10	EN0048	Bangkok
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.4	5.5-9	EN0020	Bangkok
Temperature *	°C	-	-	30.1	≤40	EN0097	Bangkok
Total Suspended Solids	mg/L	-	5	22	≤200	EN0102	Bangkok

Guideline : Industrial Land on Criteria of wastewater discharging to central wastewater treatment plant

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

Key :
- 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

Signatories

Sittuk Bunnak, Section Head, 1-204-s-0013

Kanokkorn Anek, Assistant General Manager, 1-204-e-0004

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

Analysis Report

TESTING No.0009

Work Order	BK2534524	Date Received	Oct 01, 2025
Client	WHA Utilities and Power Public Company Limited 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported	Oct 16, 2025
Project	WHA SIL	Report Number	BK2534524-AA (1)
Project Location	Siam Gypsum Industry (Saraburi) Co.,Ltd._9,15_WWT_018_2564		

Sample Number	BK2534524-001
Sampled Date	Oct 01, 2025 09:40 AM
Sample Name	Group 2 Wastewater WW-CT : Factory 1
Sampling Site	Siam Gypsum Industry (Saraburi) Co.,Ltd.
Contract ID	WWT_018_2564
Plot	9,15
Date of Analysis	Oct 02, 2025
Sampled by	Panupong Saenoi (1-204-s-0204)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H_2SO_4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, some odour, some solids, turbid

Brief Method Summaries

The methods in the analysis report are short format, refer to full test methods in accordance with the ISO/IEC 17025 certificate no. specified in the analysis report.

Method	Testing Lab	Method Descriptions
EN0020	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0097	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B
EN0102	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

——— END OF REPORT ———

Signatories

Sittuk Bunnak, Section Head, 1-204-s-0013

Kanokkorn Anek, Assistant General Manager, 1-204-e-0004

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

Analysis Report

TESTING No.0009

Work Order	BK2534525	Date Received	Oct 01, 2025
Client	WHA Utilities and Power Public Company Limited 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported	Oct 16, 2025
Project	WHA SIL	Report Number	BK2534525-AA (1)
Project Location	Siam Gypsum Industry (Saraburi) Co.,Ltd._42,79,96_WWT_017_2564		

Sample Number	BK2534525-001
Sampled Date	Oct 01, 2025 11:10 AM
Sample Name	Group 2 Wastewater WW-CT : Factory 2
Sampling Site	Siam Gypsum Industry (Saraburi) Co.,Ltd.
Contract ID	WWT_017_2564
Plot	42,79,96
Date of Analysis	Oct 02, 2025
Sampled by	Pichai Boonyong (1-204-s-0062)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H_2SO_4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, strong odour, lots of solids, turbid

Analytical Results

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	6.8	≤500	EN0044	Bangkok
COD	mg/L	-	25	81	≤750	EN0046	Bangkok
Oil & Grease	mg/L	-	3	<3	≤10	EN0048	Bangkok
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.6	5.5-9	EN0020	Bangkok
Temperature *	°C	-	-	30.7	≤40	EN0097	Bangkok
Total Suspended Solids	mg/L	-	5	38	≤200	EN0102	Bangkok

Guideline : Industrial Land on Criteria of wastewater discharging to central wastewater treatment plant

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

Key :
- 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

Signatories

Sittuk Bunnak, Section Head, 1-204-s-0013

Kanokkorn Anek, Assistant General Manager, 1-204-e-0004

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

Analysis Report

TESTING No.0009

Work Order	BK2534525	Date Received	Oct 01, 2025
Client	WHA Utilities and Power Public Company Limited 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported	Oct 16, 2025
Project	WHA SIL	Report Number	BK2534525-AA (1)
Project Location	Siam Gypsum Industry (Saraburi) Co.,Ltd._42,79,96_WWT_017_2564		

Sample Number	BK2534525-001
Sampled Date	Oct 01, 2025 11:10 AM
Sample Name	Group 2 Wastewater WW-CT : Factory 2
Sampling Site	Siam Gypsum Industry (Saraburi) Co.,Ltd.
Contract ID	WWT_017_2564
Plot	42,79,96
Date of Analysis	Oct 02, 2025
Sampled by	Pichai Boonyong (1-204-s-0062)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H_2SO_4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, strong odour, lots of solids, turbid

Brief Method Summaries

The methods in the analysis report are short format, refer to full test methods in accordance with the ISO/IEC 17025 certificate no. specified in the analysis report.

Method	Testing Lab	Method Descriptions
EN0020	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0097	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B
EN0102	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

——— END OF REPORT ———

Signatories

Sittuk Bunnak, Section Head, 1-204-s-0013

Kanokkorn Anek, Assistant General Manager, 1-204-e-0004

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

Analysis Report

TESTING No.0009

Work Order	BK2534526	Date Received	Oct 08, 2025
Client	WHA Utilities and Power Public Company Limited 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported	Oct 16, 2025
Project	WHA SIL	Report Number	BK2534526-AA
Project Location	Siam Hanamaruki Co.,Ltd._83_WWT_006_2562		

Sample Number	BK2534526-001
Sampled Date	Oct 08, 2025 11:10 AM
Sample Name	Group 2 Wastewater WW-CT : [illegible]
Sampling Site	Siam Hanamaruki Co.,Ltd.
Contract ID	WWT_006_2562
Plot	83
Date of Analysis	Oct 09, 2025
Sampled by	Panupong Saenoi (1-204-s-0204)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H_2SO_4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, strong odour, lots of solids, highly turbid

Analytical Results

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	67.2	≤500	EN0044	Bangkok
COD	mg/L	-	25	206	≤750	EN0046	Bangkok
Oil & Grease	mg/L	-	3	4	≤10	EN0048	Bangkok
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.5	5.5-9	EN0020	Bangkok
Temperature *	°C	-	-	31.3	≤40	EN0097	Bangkok
Total Suspended Solids	mg/L	-	5	92	≤200	EN0102	Bangkok

Guideline : Industrial Land on Criteria of wastewater discharging to central wastewater treatment plant

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

Key :
- 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

Signatories

Nanthawadee Somboon, Specialist 2, 1-204-s-0010

Kanokkorn Anek, Assistant General Manager, 1-204-e-0004

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

Analysis Report

TESTING No.0009

Work Order	BK2534526	Date Received	Oct 08, 2025
Client	WHA Utilities and Power Public Company Limited 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported	Oct 16, 2025
Project	WHA SIL	Report Number	BK2534526-AA
Project Location	Siam Hanamaruki Co.,Ltd._83_WWT_006_2562		

Sample Number	BK2534526-001
Sampled Date	Oct 08, 2025 11:10 AM
Sample Name	Group 2 Wastewater WW-CT : [illegible]
Sampling Site	Siam Hanamaruki Co.,Ltd.
Contract ID	WWT_006_2562
Plot	83
Date of Analysis	Oct 09, 2025
Sampled by	Panupong Saenoi (1-204-s-0204)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H_2SO_4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, strong odour, lots of solids, highly turbid

Brief Method Summaries

The methods in the analysis report are short format, refer to full test methods in accordance with the ISO/IEC 17025 certificate no. specified in the analysis report.

Method	Testing Lab	Method Descriptions
EN0020	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0097	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B
EN0102	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

——— END OF REPORT ———

Signatories

Nanthawadee Somboon, Specialist 2, 1-204-s-0010

Kanokkorn Anek, Assistant General Manager, 1-204-e-0004

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

Analysis Report

TESTING No.0009

Work Order	BK2534527	Date Received	Oct 01, 2025
Client	WHA Utilities and Power Public Company Limited 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported	Oct 16, 2025
Project	WHA SIL	Report Number	BK2534527-AA (1)
Project Location	Siam NGK Technocera Co.,Ltd._74_WWT_020_2564		

Sample Number	BK2534527-001
Sampled Date	Oct 01, 2025 10:20 AM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	Siam NGK Technocera Co.,Ltd.
Contract ID	WWT_020_2564
Plot	74
Date of Analysis	Oct 02, 2025
Sampled by	Panupong Saenoi (1-204-s-0204)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H_2SO_4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, some odour, some solids, turbid

Analytical Results

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	36.7	≤500	EN0044	Bangkok
COD	mg/L	-	25	134	≤750	EN0046	Bangkok
Oil & Grease	mg/L	-	3	<3	≤10	EN0048	Bangkok
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.8	5.5-9	EN0020	Bangkok
Temperature *	°C	-	-	30.1	≤40	EN0097	Bangkok
Total Suspended Solids	mg/L	-	5	36	≤200	EN0102	Bangkok

Guideline : Industrial Land on Criteria of wastewater discharging to central wastewater treatment plant

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

Key :
- 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

Signatories

Sittuk Bunnak, Section Head, 1-204-s-0013

Kanokkorn Anek, Assistant General Manager, 1-204-e-0004

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Analysis Report

TESTING No.0009

Work Order	BK2534527	Date Received	Oct 01, 2025
Client	WHA Utilities and Power Public Company Limited 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported	Oct 16, 2025
Project	WHA SIL	Report Number	BK2534527-AA (1)
Project Location	Siam NGK Technocera Co.,Ltd._74_WWT_020_2564		

Sample Number	BK2534527-001
Sampled Date	Oct 01, 2025 10:20 AM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	Siam NGK Technocera Co.,Ltd.
Contract ID	WWT_020_2564
Plot	74
Date of Analysis	Oct 02, 2025
Sampled by	Panupong Saenoi (1-204-s-0204)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H_2SO_4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, some odour, some solids, turbid

Brief Method Summaries

The methods in the analysis report are short format, refer to full test methods in accordance with the ISO/IEC 17025 certificate no. specified in the analysis report.

Method	Testing Lab	Method Descriptions
EN0020	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0097	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B
EN0102	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

——— END OF REPORT ———

Signatories

Sittuk Bunnak, Section Head, 1-204-s-0013

Kanokkorn Anek, Assistant General Manager, 1-204-e-0004

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

Analysis Report

TESTING No.0009

Work Order	BK2534528	Date Received :	Oct 01, 2025
Client :	WHA Utilities and Power Public Company Limited 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported :	Oct 16, 2025
		Report Number :	BK2534528-AA (1)
Project :	WHA SIL		
Project Location :	Siam Totsu Ceramics Co.,Ltd._58_WWT_021_2564		

Sample Number	BK2534528-001
Sampled Date	Oct 01, 2025 09:40 AM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	Siam Totsu Ceramics Co.,Ltd.
Contract ID	WWT_021_2564
Plot	58
Date of Analysis	Oct 02, 2025
Sampled by	Pichai Booryong (1-204-s-0062)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	white, strong odour, lots of solids, highly turbid

Analytical Results

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	20.2	≤500	EN0044	Bangkok
COD	mg/L	-	25	158	≤750	EN0046	Bangkok
Oil & Grease	mg/L	-	3	<3	≤10	EN0048	Bangkok
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.8	5.5-9	EN0020	Bangkok
Temperature *	°C	-	-	29.8	≤40	EN0097	Bangkok
Total Suspended Solids	mg/L	-	5	558	≤200	EN0102	Bangkok

Guideline : Industrial Land on Criteria of wastewater discharging to central wastewater treatment plant

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

Key :
- 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

Signatories

Sirikuk Burnak	Kanokkorn Anek
Section Head	Assistant General Manager
1-204-s-0013	1-204-s-0004

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

Analysis Report

TESTING No.0009

Work Order	BK2534528	Date Received :	Oct 01, 2025
Client :	WHA Utilities and Power Public Company Limited 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported :	Oct 16, 2025
		Report Number :	BK2534528-AA (1)
Project :	WHA SIL		
Project Location :	Siam Totsu Ceramics Co.,Ltd._58_WWT_021_2564		

Sample Number	BK2534528-001
Sampled Date	Oct 01, 2025 09:40 AM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	Siam Totsu Ceramics Co.,Ltd.
Contract ID	WWT_021_2564
Plot	58
Date of Analysis	Oct 02, 2025
Sampled by	Pichai Booryong (1-204-s-0062)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	white, strong odour, lots of solids, highly turbid

Brief Method Summaries

The methods in the analysis report are short format, refer to full test methods in accordance with the ISO/IEC 17025 certificate no. specified in the analysis report.

Method	Testing Lab	Method Descriptions
EN0020	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0097	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B
EN0102	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

——— END OF REPORT ———

Signatories

Sirikuk Burnak	Kanokkorn Anek
Section Head	Assistant General Manager
1-204-s-0013	1-204-s-0004

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

Analysis Report

TESTING No.0009

Work Order	BK2534529	Date Received :	Oct 01, 2025
Client :	WHA Utilities and Power Public Company Limited 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported :	Oct 16, 2025
		Report Number :	BK2534529-AA (1)
Project :	WHA SIL		
Project Location :	SLIK (Thailand) Co.,Ltd._132_WWT_046_2566		

Sample Number	BK2534529-001
Sampled Date	Oct 01, 2025 08:00 AM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	SLIK (Thailand) Co.,Ltd.
Contract ID	WWT_046_2566
Plot	132
Date of Analysis	Oct 02, 2025
Sampled by	Panupong Saenoi (1-204-s-0204)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, strong odour, some solids, turbid

Analytical Results

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	15.6	≤500	EN0044	Bangkok
COD	mg/L	-	25	110	≤750	EN0046	Bangkok
Oil & Grease	mg/L	-	3	4	≤10	EN0048	Bangkok
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.4	5.5-9	EN0020	Bangkok
Temperature *	°C	-	-	28.5	≤40	EN0097	Bangkok
Total Suspended Solids	mg/L	-	5	65	≤200	EN0102	Bangkok

Guideline : Industrial Land on Criteria of wastewater discharging to central wastewater treatment plant

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

Key :
- 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

Signatories

Sirikuk Burnak	Kanokkorn Anek
Section Head	Assistant General Manager
1-204-s-0013	1-204-s-0004

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

Analysis Report

TESTING No.0009

Work Order	BK2534529	Date Received :	Oct 01, 2025
Client :	WHA Utilities and Power Public Company Limited 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported :	Oct 16, 2025
		Report Number :	BK2534529-AA (1)
Project :	WHA SIL		
Project Location :	SLIK (Thailand) Co.,Ltd._132_WWT_046_2566		

Sample Number	BK2534529-001
Sampled Date	Oct 01, 2025 08:00 AM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	SLIK (Thailand) Co.,Ltd.
Contract ID	WWT_046_2566
Plot	132
Date of Analysis	Oct 02, 2025
Sampled by	Panupong Saenoi (1-204-s-0204)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, strong odour, some solids, turbid

Brief Method Summaries

The methods in the analysis report are short format, refer to full test methods in accordance with the ISO/IEC 17025 certificate no. specified in the analysis report.

Method	Testing Lab	Method Descriptions
EN0020	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0097	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B
EN0102	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

——— END OF REPORT ———

Signatories

Sirikuk Burnak	Kanokkorn Anek
Section Head	Assistant General Manager
1-204-s-0013	1-204-s-0004

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

Analysis Report

TESTING No.0009

Work Order	BK2534531	Date Received :	Oct 01, 2025
Client :	WHA Utilities and Power Public Company Limited 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported :	Oct 16, 2025
		Report Number :	BK2534531-AA (1)
Project :	WHA SIL		
Project Location :	TERAHOP (THAILAND) CO., LTD._139-140_WWT_003_2565		

Sample Number	BK2534531-001
Sampled Date	Oct 01, 2025 01:30 PM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	TERAHOP (THAILAND) CO., LTD.
Contract ID	WWT_003_2565
Plot	139-140
Date of Analysis	Oct 02, 2025
Sampled by	Panupong Saenoi (1-204-s-0204)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, strong odour, some solids, highly turbid

Analytical Results

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	163	≤500	EN0044	Bangkok
COD	mg/L	-	25	372	≤750	EN0046	Bangkok
Oil & Grease	mg/L	-	3	7	≤10	EN0048	Bangkok
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.1	5.5-9	EN0020	Bangkok
Temperature *	°C	-	-	32.5	≤40	EN0097	Bangkok
Total Suspended Solids	mg/L	-	5	147	≤200	EN0102	Bangkok

Guideline : Industrial Land on Criteria of wastewater discharging to central wastewater treatment plant

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

Key :
- 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

Signatories

Sirikuk Burnak	Kanokkorn Anek
Section Head	Assistant General Manager
1-204-s-0013	1-204-s-0004

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

Analysis Report

TESTING No.0009

Work Order	BK2534531	Date Received :	Oct 01, 2025
Client :	WHA Utilities and Power Public Company Limited 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported :	Oct 16, 2025
		Report Number :	BK2534531-AA (1)
Project :	WHA SIL		
Project Location :	TERAHOP (THAILAND) CO., LTD._139-140_WWT_003_2565		

Sample Number	BK2534531-001
Sampled Date	Oct 01, 2025 01:30 PM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	TERAHOP (THAILAND) CO., LTD.
Contract ID	WWT_003_2565
Plot	139-140
Date of Analysis	Oct 02, 2025
Sampled by	Panupong Saenoi (1-204-s-0204)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, strong odour, some solids, highly turbid

Brief Method Summaries

The methods in the analysis report are short format, refer to full test methods in accordance with the ISO/IEC 17025 certificate no. specified in the analysis report.

Method	Testing Lab	Method Descriptions
EN0020	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0097	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B
EN0102	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

——— END OF REPORT ———

Signatories

Sirikuk Burnak	Kanokkorn Anek
Section Head	Assistant General Manager
1-204-s-0013	1-204-s-0004

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

Analysis Report

TESTING No.0009

Work Order	BK2534536	Date Received :	Oct 09, 2025
Client :	WHA Utilities and Power Public Company Limited 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported :	Oct 16, 2025
		Report Number :	BK2534536-AA
Project :	WHA SIL		
Project Location :	Thai Beverage Can Co.,Ltd._23_WWT_024_2564		

Sample Number	BK2534536-001
Sampled Date	Oct 09, 2025 10:10 AM
Sample Name	Group 2 Wastewater WW-CT : Point 2
Sampling Site	Thai Beverage Can Co.,Ltd.
Contract ID	WWT_024_2564
Plot	23
Date of Analysis	Oct 10, 2025
Sampled by	Panupong Saenoi (1-204-s-0204)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	colourless, some odour, some solids, no turbidity

Analytical Results

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	61.8	≤500	EN0044	Bangkok
COD	mg/L	-	25	166	≤750	EN0046	Bangkok
Oil & Grease	mg/L	-	3	6	≤10	EN0048	Bangkok
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.7	5.5-9	EN0020	Bangkok
Temperature *	°C	-	-	31.1	≤40	EN0097	Bangkok
Total Suspended Solids	mg/L	-	5	18	≤200	EN0102	Bangkok

Guideline : Industrial Land on Criteria of wastewater discharging to central wastewater treatment plant

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

Key :
- 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

Signatories

Sirikuk Burnak	Kanokkorn Anek
Section Head	Assistant General Manager
1-204-s-0013	1-204-s-0004

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Analysis Report

TESTING No.0009

Work Order	BK2534536	Date Received :	Oct 09, 2025
Client :	WHA Utilities and Power Public Company Limited 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported :	Oct 16, 2025
		Report Number :	BK2534536-AA
Project :	WHA SIL		
Project Location :	Thai Beverage Can Co.,Ltd._23_WWT_024_2564		

Sample Number	BK2534536-001
Sampled Date	Oct 09, 2025 10:10 AM
Sample Name	Group 2 Wastewater WW-CT : Point 2
Sampling Site	Thai Beverage Can Co.,Ltd.
Contract ID	WWT_024_2564
Plot	23
Date of Analysis	Oct 10, 2025
Sampled by	Panupong Saenoi (1-204-s-0204)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	colourless, some odour, some solids, no turbidity

Brief Method Summaries

The methods in the analysis report are short format, refer to full test methods in accordance with the ISO/IEC 17025 certificate no. specified in the analysis report.

Method	Testing Lab	Method Descriptions
EN0020	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0097	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B
EN0102	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

——— END OF REPORT ———

Signatories

Sirikuk Burnak	Kanokkorn Anek
Section Head	Assistant General Manager
1-204-s-0013	1-204-s-0004

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

Analysis Report

TESTING No.0009

Work Order	BK2534537	Date Received :	Oct 09, 2025
Client :	WHA Utilities and Power Public Company Limited 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported :	Oct 17, 2025
		Report Number :	BK2534537-AA
Project :	WHA SIL		
Project Location :	Thai Beverage Can Co.,Ltd._25_WWT_013_2566		

Sample Number	BK2534537-001
Sampled Date	Oct 09, 2025 10:00 AM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	Thai Beverage Can Co.,Ltd.
Contract ID	WWT_013_2566
Plot	25
Date of Analysis	Oct 10, 2025
Sampled by	Panupong Saenoi (1-204-s-0204)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, some odour, some solids, no turbidity

Analytical Results

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	13.4	≤500	EN0044	Bangkok
COD	mg/L	-	25	50	≤750	EN0046	Bangkok
Oil & Grease	mg/L	-	3	<3	≤10	EN0048	Bangkok
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	8.2	5.5-9	EN0020	Bangkok
Temperature *	°C	-	-	32.8	≤40	EN0097	Bangkok
Total Suspended Solids	mg/L	-	5	<5	≤200	EN0102	Bangkok

Guideline : Industrial Land on Criteria of wastewater discharging to central wastewater treatment plant

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

Key :
- 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

Signatories

Sirikuk Burnak	Kanokkorn Anek
Section Head	Assistant General Manager
1-204-s-0013	1-204-s-0004

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Analysis Report

TESTING No.0009

Work Order	BK2534537	Date Received	Oct 09, 2025
Client	WHA Utilities and Power Public Company Limited, 111 Moo 7, Nong Pla Krad Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported	Oct 17, 2025
Project	WHA SIL	Report Number	BK2534537-AA
Project Location	Thai Beverage Can Co.,Ltd._26_WWT_013_2568		

Sample Number	BK2534537-001
Sampled Date	Oct 09, 2025 10:50 AM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	Thai Beverage Can Co.,Ltd.
Contract ID	WWT_013_2568
Plot	26
Date of Analysis	Oct 10, 2025
Sampled by	Panupong Saenot (1-204-c-0204)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, some odour, some solids, no turbidity

Brief Method Summaries

The methods in the analysis report are short format, refer to full test methods in accordance with the ISO/IEC 17025 certificate no. specified in the analysis report.

Method	Testing Lab	Method Descriptions
EN0020	Bangkok	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Bangkok	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Bangkok	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Bangkok	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0097	Bangkok	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 2550 B
EN0102	Bangkok	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

—— END OF REPORT ——

Signatories

Siriluk Bunnak, Section Head, 1-204-c-0013 — Kanokkorn Anek, Assistant General Manager, 1-204-e-0004

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

Analysis Report

TESTING No.0009

Work Order	BK2534538	Date Received	Oct 09, 2025
Client	WHA Utilities and Power Public Company Limited, 111 Moo 7, Nong Pla Krad Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported	Oct 17, 2025
Project	WHA SIL	Report Number	BK2534538-AA
Project Location	Thai Inaba Foods (Thailand) Co., Ltd._1361_WWT_001_2567		

Sample Number	BK2534538-001
Sampled Date	Oct 09, 2025 11:30 AM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	Thai Inaba Foods (Thailand) Co., Ltd.
Contract ID	WWT_001_2567
Plot	1361
Date of Analysis	Oct 10, 2025
Sampled by	Panupong Saenot (1-204-c-0204)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, strong odour, some solids, highly turbid

Analytical Results

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	178	≤500	EN0044	Bangkok
COD	mg/L	-	25	204	≤750	EN0046	Bangkok
Oil & Grease	mg/L	-	3	5	≤10	EN0048	Bangkok
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.2	5.5-9	EN0020	Bangkok
Temperature *	°C	-	-	31.3	≤40	EN0097	Bangkok
Total Suspended Solids	mg/L	-	5	86	≤200	EN0102	Bangkok

Guideline : Industrial Land on Criteria of wastewater discharging to central wastewater treatment plant
Comment : Sampling is not included in scope of accreditation ISO/IEC 17025
Key :
- 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

Signatories

Siriluk Bunnak, Section Head, 1-204-c-0013 — Kanokkorn Anek, Assistant General Manager, 1-204-e-0004

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

Analysis Report

TESTING No.0009

Work Order	BK2534538	Date Received	Oct 09, 2025
Client	WHA Utilities and Power Public Company Limited, 111 Moo 7, Nong Pla Krad Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported	Oct 17, 2025
Project	WHA SIL	Report Number	BK2534538-AA
Project Location	Thai Inaba Foods (Thailand) Co., Ltd._1361_WWT_001_2567		

Sample Number	BK2534538-001
Sampled Date	Oct 09, 2025 11:30 AM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	Thai Inaba Foods (Thailand) Co., Ltd.
Contract ID	WWT_001_2567
Plot	1361
Date of Analysis	Oct 10, 2025
Sampled by	Panupong Saenot (1-204-c-0204)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, strong odour, some solids, highly turbid

Brief Method Summaries

The methods in the analysis report are short format, refer to full test methods in accordance with the ISO/IEC 17025 certificate no. specified in the analysis report.

Method	Testing Lab	Method Descriptions
EN0020	Bangkok	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Bangkok	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Bangkok	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Bangkok	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0097	Bangkok	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 2550 B
EN0102	Bangkok	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

—— END OF REPORT ——

Signatories

Siriluk Bunnak, Section Head, 1-204-c-0013 — Kanokkorn Anek, Assistant General Manager, 1-204-e-0004

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

Analysis Report

TESTING No.0009

Work Order	BK2534539	Date Received	Oct 09, 2025
Client	WHA Utilities and Power Public Company Limited, 111 Moo 7, Nong Pla Krad Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported	Oct 17, 2025
Project	WHA SIL	Report Number	BK2534539-AA
Project Location	Thai Inaba Foods (Thailand) Co.,Ltd. (1st)_133_WWT_066_2568		

Sample Number	BK2534539-001
Sampled Date	Oct 09, 2025 11:20 AM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	Thai Inaba Foods (Thailand) Co.,Ltd. (1st)
Contract ID	WWT_066_2568
Plot	133
Date of Analysis	Oct 10, 2025
Sampled by	Panupong Saenot (1-204-c-0204)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, strong odour, some solids, highly turbid

Analytical Results

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	272	≤500	EN0044	Bangkok
COD	mg/L	-	25	447	≤750	EN0046	Bangkok
Oil & Grease	mg/L	-	3	<3	≤10	EN0048	Bangkok
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.5	5.5-9	EN0020	Bangkok
Temperature *	°C	-	-	33.4	≤40	EN0097	Bangkok
Total Suspended Solids	mg/L	-	5	30	≤200	EN0102	Bangkok

Guideline : Industrial Land on Criteria of wastewater discharging to central wastewater treatment plant
Comment : Sampling is not included in scope of accreditation ISO/IEC 17025
Key :
- 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

Signatories

Siriluk Bunnak, Section Head, 1-204-c-0013 — Kanokkorn Anek, Assistant General Manager, 1-204-e-0004

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Analysis Report

TESTING No.0009

Work Order	BK2534539	Date Received	Oct 09, 2025
Client	WHA Utilities and Power Public Company Limited, 111 Moo 7, Nong Pla Krad Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported	Oct 17, 2025
Project	WHA SIL	Report Number	BK2534539-AA
Project Location	Thai Inaba Foods (Thailand) Co.,Ltd. (1st)_133_WWT_066_2568		

Sample Number	BK2534539-001
Sampled Date	Oct 09, 2025 11:20 AM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	Thai Inaba Foods (Thailand) Co.,Ltd. (1st)
Contract ID	WWT_066_2568
Plot	133
Date of Analysis	Oct 10, 2025
Sampled by	Panupong Saenot (1-204-c-0204)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, strong odour, some solids, highly turbid

Brief Method Summaries

The methods in the analysis report are short format, refer to full test methods in accordance with the ISO/IEC 17025 certificate no. specified in the analysis report.

Method	Testing Lab	Method Descriptions
EN0020	Bangkok	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Bangkok	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Bangkok	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Bangkok	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0097	Bangkok	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 2550 B
EN0102	Bangkok	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

—— END OF REPORT ——

Signatories

Siriluk Bunnak, Section Head, 1-204-c-0013 — Kanokkorn Anek, Assistant General Manager, 1-204-e-0004

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

Analysis Report

TESTING No.0009

Work Order	BK2534542	Date Received	Oct 01, 2025
Client	WHA Utilities and Power Public Company Limited, 111 Moo 7, Nong Pla Krad Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported	Oct 16, 2025
Project	WHA SIL	Report Number	BK2534542-AA (1)
Project Location	Thai Malaya Glass (Thailand) Co.,Ltd._37,38_WWT_026_2564		

Sample Number	BK2534542-001
Sampled Date	Oct 01, 2025 07:40 AM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	Thai Malaya Glass (Thailand) Co.,Ltd.
Contract ID	WWT_026_2564
Plot	37,38
Date of Analysis	Oct 02, 2025
Sampled by	Anuwat Phusawn (1-204-c-0146)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, strong odour, lots of solids, turbid

Analytical Results

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	8.0	≤500	EN0044	Bangkok
COD	mg/L	-	25	75	≤750	EN0046	Bangkok
Oil & Grease	mg/L	-	3	<3	≤10	EN0048	Bangkok
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.8	5.5-9	EN0020	Bangkok
Temperature *	°C	-	-	29.9	≤40	EN0097	Bangkok
Total Suspended Solids	mg/L	-	5	28	≤200	EN0102	Bangkok

Guideline : Industrial Land on Criteria of wastewater discharging to central wastewater treatment plant
Comment : Sampling is not included in scope of accreditation ISO/IEC 17025
Key :
- 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

Signatories

Siriluk Bunnak, Section Head, 1-204-c-0013 — Kanokkorn Anek, Assistant General Manager, 1-204-e-0004

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

Analysis Report

TESTING No.0009

Work Order	BK2534542	Date Received	Oct 01, 2025
Client	WHA Utilities and Power Public Company Limited, 111 Moo 7, Nong Pla Krad Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported	Oct 16, 2025
Project	WHA SIL	Report Number	BK2534542-AA (1)
Project Location	Thai Malaya Glass (Thailand) Co.,Ltd._37,38_WWT_026_2564		

Sample Number	BK2534542-001
Sampled Date	Oct 01, 2025 07:40 AM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	Thai Malaya Glass (Thailand) Co.,Ltd.
Contract ID	WWT_026_2564
Plot	37,38
Date of Analysis	Oct 02, 2025
Sampled by	Anuwat Phusawn (1-204-c-0146)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, strong odour, lots of solids, turbid

Brief Method Summaries

The methods in the analysis report are short format, refer to full test methods in accordance with the ISO/IEC 17025 certificate no. specified in the analysis report.

Method	Testing Lab	Method Descriptions
EN0020	Bangkok	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Bangkok	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Bangkok	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Bangkok	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0097	Bangkok	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 2550 B
EN0102	Bangkok	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

—— END OF REPORT ——

Signatories

Siriluk Bunnak, Section Head, 1-204-c-0013 — Kanokkorn Anek, Assistant General Manager, 1-204-e-0004

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

Analysis Report

TESTING No.0009

Work Order	BK2534543	Date Received	Oct 01, 2025
Client	WHA Utilities and Power Public Company Limited, 111 Moo 7, Nong Pla Krad Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported	Oct 16, 2025
Project	WHA SIL	Report Number	BK2534543-AA (1)
Project Location	Thai Malaya Glass (Thailand) Co.,Ltd._46, 48,143_WWT_001_2566		

Sample Number	BK2534543-001
Sampled Date	Oct 01, 2025 10:10 AM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	Thai Malaya Glass (Thailand) Co.,Ltd.
Contract ID	WWT_001_2566
Plot	46, 48,143
Date of Analysis	Oct 02, 2025
Sampled by	Anuwat Phusawn (1-204-c-0146)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, some odour, some solids, turbid

Analytical Results

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	14.8	≤500	EN0044	Bangkok
COD	mg/L	-	25	92	≤750	EN0046	Bangkok
Oil & Grease	mg/L	-	3	<3	≤10	EN0048	Bangkok
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.8	5.5-9	EN0020	Bangkok
Temperature *	°C	-	-	32.0	≤40	EN0097	Bangkok
Total Suspended Solids	mg/L	-	5	28	≤200	EN0102	Bangkok

Guideline : Industrial Land on Criteria of wastewater discharging to central wastewater treatment plant
Comment : Sampling is not included in scope of accreditation ISO/IEC 17025
Key :
- 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

Signatories

Siriluk Bunnak, Section Head, 1-204-c-0013 — Kanokkorn Anek, Assistant General Manager, 1-204-e-0004

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Analysis Report

TESTING No.0009

Work Order	BK2534543	Date Received	Oct 01, 2025
Client	WHA Utilities and Power Public Company Limited, 111 Moo 7, Nong Pla Krad Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported	Oct 16, 2025
Project	WHA SIL	Report Number	BK2534543-AA (1)
Project Location	Thai Malaya Glass (Thailand) Co.,Ltd._46, 48,143_WWT_001_2566		

Sample Number	BK2534543-001
Sampled Date	Oct 01, 2025 10:10 AM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	Thai Malaya Glass (Thailand) Co.,Ltd.
Contract ID	WWT_001_2566
Plot	46, 48,143
Date of Analysis	Oct 02, 2025
Sampled by	Anuwat Phusawn (1-204-c-0146)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, some odour, some solids, turbid

Brief Method Summaries

The methods in the analysis report are short format, refer to full test methods in accordance with the ISO/IEC 17025 certificate no. specified in the analysis report.

Method	Testing Lab	Method Descriptions
EN0020	Bangkok	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Bangkok	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Bangkok	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Bangkok	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0097	Bangkok	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 2550 B
EN0102	Bangkok	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

—— END OF REPORT ——

Signatories

Siriluk Bunnak, Section Head, 1-204-c-0013 — Kanokkorn Anek, Assistant General Manager, 1-204-e-0004

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Analysis Report

TESTING No.0009

Work Order: **BK2534544**
Client: WHA Utilities and Power Public Company Limited, 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140
Project: WHA SIL
Project Location: Thai Rayon Public Limited Company_7, 141_WWT_054_2564
Date Received: Oct 08, 2025
Date Reported: Oct 20, 2025
Report Number: BK2534544-AA (1)

Sample Number: BK2534544-001
Sampled Date: Oct 08, 2025 10:20 AM
Sample Name: Group 2 Wastewater WW-CT
Sampling Site: Thai Rayon Public Limited Company
Contract ID: WWT_054_2564
Plot: 7, 141
Date of Analysis: Oct 09, 2025
Sampled by: Panupong Saenoi (1-204-s-0204)
Condition of Sample: 1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H_2SO_4, 1x Plastic Bottle - Preserved with Zinc Acetate and NaOH, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties: yellow, some odour, some solids, no turbidity

Analytical Results

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	49.2	≤500	EN0044	Bangkok
COD	mg/L	-	25	136	≤750	EN0046	Bangkok
Oil & Grease *	mg/L	-	3	<3	≤10	EN0048	Bangkok
Sulfides *	mg/L	-	0.5	<0.5	≤1	EN0032	Bangkok
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.7	5.5-9	EN0020	Bangkok
Temperature *	°C	-	-	34.3	≤45	EN0097	Bangkok
Total Suspended Solids	mg/L	-	5	<5	≤200	EN0102	Bangkok

Guideline: Industrial Land on Criteria of wastewater discharging to central wastewater treatment plant
Comment: Sampling is not included in scope of accreditation ISO/IEC 17025
Key:
- 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

Signatories

Sirilak Bunnak, Section Head, 1-204-s-0013
Kanokkorn Anek, Assistant General Manager, 1-204-e-0004

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ALS Laboratory Group (Thailand) Co.,Ltd. Bangkok Life Sciences

Analysis Report

TESTING No.0009

Work Order: **BK2534544**
Client: WHA Utilities and Power Public Company Limited, 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140
Project: WHA SIL
Project Location: Thai Rayon Public Limited Company_7, 141_WWT_054_2564
Date Received: Oct 08, 2025
Date Reported: Oct 20, 2025
Report Number: BK2534544-AA (1)

Sample Number: BK2534544-001
Sampled Date: Oct 08, 2025 10:20 AM
Sample Name: Group 2 Wastewater WW-CT
Sampling Site: Thai Rayon Public Limited Company
Contract ID: WWT_054_2564
Plot: 7, 141
Date of Analysis: Oct 09, 2025
Sampled by: Panupong Saenoi (1-204-s-0204)
Condition of Sample: 1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H_2SO_4, 1x Plastic Bottle - Preserved with Zinc Acetate and NaOH, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties: yellow, some odour, some solids, no turbidity

Brief Method Summaries

The methods in the analysis report are short format, refer to full test methods in accordance with the ISO/IEC 17025 certificate no. specified in the analysis report.

Method	Testing Lab	Method Descriptions
EN0020	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0032	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - S2 (C, F)
EN0044	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 D
EN0097	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B
EN0102	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

—— END OF REPORT ——

Signatories

Sirilak Bunnak, Section Head, 1-204-s-0013
Kanokkorn Anek, Assistant General Manager, 1-204-e-0004

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ALS Laboratory Group (Thailand) Co.,Ltd. Bangkok Life Sciences

Analysis Report

TESTING No.0009

Work Order: **BK2534545**
Client: WHA Utilities and Power Public Company Limited, 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140
Project: WHA SIL
Project Location: The Siam Cement (Taluang) Co.,Ltd._70,71,73_WWT_009_2560
Date Received: Oct 01, 2025
Date Reported: Oct 16, 2025
Report Number: BK2534545-AA (1)

Sample Number: BK2534545-001
Sampled Date: Oct 01, 2025 09:20 AM
Sample Name: Group 2 Wastewater WW-CT
Sampling Site: The Siam Cement (Taluang) Co.,Ltd.
Contract ID: WWT_009_2560
Plot: 70,71,73
Date of Analysis: Oct 02, 2025
Sampled by: Pichai Boonyong (1-204-s-0082)
Condition of Sample: 1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H_2SO_4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties: yellow, strong odour, some solids, turbid

Analytical Results

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	19.2	≤500	EN0044	Bangkok
COD	mg/L	-	25	106	≤750	EN0046	Bangkok
Oil & Grease	mg/L	-	3	3	≤10	EN0048	Bangkok
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.6	5.5-9	EN0020	Bangkok
Temperature *	°C	-	-	29.8	≤45	EN0097	Bangkok
Total Suspended Solids	mg/L	-	5	10	≤200	EN0102	Bangkok

Guideline: Industrial Land on Criteria of wastewater discharging to central wastewater treatment plant
Comment: Sampling is not included in scope of accreditation ISO/IEC 17025
Key:
- 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

Signatories

Sirilak Bunnak, Section Head, 1-204-s-0013
Kanokkorn Anek, Assistant General Manager, 1-204-e-0004

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ALS Laboratory Group (Thailand) Co.,Ltd. Bangkok Life Sciences

Analysis Report

TESTING No.0009

Work Order: **BK2534545**
Client: WHA Utilities and Power Public Company Limited, 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140
Project: WHA SIL
Project Location: The Siam Cement (Taluang) Co.,Ltd._70,71,73_WWT_009_2560
Date Received: Oct 01, 2025
Date Reported: Oct 16, 2025
Report Number: BK2534545-AA (1)

Sample Number: BK2534545-001
Sampled Date: Oct 01, 2025 09:20 AM
Sample Name: Group 2 Wastewater WW-CT
Sampling Site: The Siam Cement (Taluang) Co.,Ltd.
Contract ID: WWT_009_2560
Plot: 70,71,73
Date of Analysis: Oct 02, 2025
Sampled by: Pichai Boonyong (1-204-s-0082)
Condition of Sample: 1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H_2SO_4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties: yellow, strong odour, some solids, turbid

Brief Method Summaries

The methods in the analysis report are short format, refer to full test methods in accordance with the ISO/IEC 17025 certificate no. specified in the analysis report.

Method	Testing Lab	Method Descriptions
EN0020	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0097	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B
EN0102	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

—— END OF REPORT ——

Signatories

Sirilak Bunnak, Section Head, 1-204-s-0013
Kanokkorn Anek, Assistant General Manager, 1-204-e-0004

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ALS Laboratory Group (Thailand) Co.,Ltd. Bangkok Life Sciences

Analysis Report

TESTING No.0009

Work Order: **BK2534546**
Client: WHA Utilities and Power Public Company Limited, 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140
Project: WHA SIL
Project Location: Tiement (Thailand) Corp.,Ltd._53,60_WWT_027_2564
Date Received: Oct 01, 2025
Date Reported: Oct 16, 2025
Report Number: BK2534546-AA (1)

Sample Number: BK2534546-001
Sampled Date: Oct 01, 2025 08:55 AM
Sample Name: Group 2 Wastewater WW-CT
Sampling Site: Tiement (Thailand) Corp.,Ltd.
Contract ID: WWT_027_2564
Plot: 53,60
Date of Analysis: Oct 02, 2025
Sampled by: Pichai Boonyong (1-204-s-0082)
Condition of Sample: 1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H_2SO_4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties: yellow, strong odour, lots of solids, highly turbid

Analytical Results

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	11.9	≤500	EN0044	Bangkok
COD	mg/L	-	25	80	≤750	EN0046	Bangkok
Oil & Grease	mg/L	-	3	3	≤10	EN0048	Bangkok
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.5	5.5-9	EN0020	Bangkok
Temperature *	°C	-	-	30.5	≤45	EN0097	Bangkok
Total Suspended Solids	mg/L	-	5	44	≤200	EN0102	Bangkok

Guideline: Industrial Land on Criteria of wastewater discharging to central wastewater treatment plant
Comment: Sampling is not included in scope of accreditation ISO/IEC 17025
Key:
- 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

Signatories

Sirilak Bunnak, Section Head, 1-204-s-0013
Kanokkorn Anek, Assistant General Manager, 1-204-e-0004

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ALS Laboratory Group (Thailand) Co.,Ltd. Bangkok Life Sciences

Analysis Report

TESTING No.0009

Work Order: **BK2534546**
Client: WHA Utilities and Power Public Company Limited, 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140
Project: WHA SIL
Project Location: Tiement (Thailand) Corp.,Ltd._53,60_WWT_027_2564
Date Received: Oct 01, 2025
Date Reported: Oct 16, 2025
Report Number: BK2534546-AA (1)

Sample Number: BK2534546-001
Sampled Date: Oct 01, 2025 08:55 AM
Sample Name: Group 2 Wastewater WW-CT
Sampling Site: Tiement (Thailand) Corp.,Ltd.
Contract ID: WWT_027_2564
Plot: 53,60
Date of Analysis: Oct 02, 2025
Sampled by: Pichai Boonyong (1-204-s-0082)
Condition of Sample: 1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H_2SO_4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties: yellow, strong odour, lots of solids, highly turbid

Brief Method Summaries

The methods in the analysis report are short format, refer to full test methods in accordance with the ISO/IEC 17025 certificate no. specified in the analysis report.

Method	Testing Lab	Method Descriptions
EN0020	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0097	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B
EN0102	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

—— END OF REPORT ——

Signatories

Sirilak Bunnak, Section Head, 1-204-s-0013
Kanokkorn Anek, Assistant General Manager, 1-204-e-0004

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

ALS Laboratory Group (Thailand) Co.,Ltd. Bangkok Life Sciences

Analysis Report

TESTING No.0009

Work Order: **BK2534547**
Client: WHA Utilities and Power Public Company Limited, 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140
Project: WHA SIL
Project Location: TS Tech (Thailand) Co.,Ltd._147_WWT_061_2566
Date Received: Oct 01, 2025
Date Reported: Oct 16, 2025
Report Number: BK2534547-AA (1)

Sample Number: BK2534547-001
Sampled Date: Oct 01, 2025 01:15 PM
Sample Name: Group 2 Wastewater WW-CT
Sampling Site: TS Tech (Thailand) Co.,Ltd.
Contract ID: WWT_061_2566
Plot: 147
Date of Analysis: Oct 02, 2025
Sampled by: Pichai Boonyong (1-204-s-0082)
Condition of Sample: 1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H_2SO_4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties: yellow, some odour, some solids, turbid

Analytical Results

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	12.3	≤500	EN0044	Bangkok
COD	mg/L	-	25	77	≤750	EN0046	Bangkok
Oil & Grease	mg/L	-	3	<3	≤10	EN0048	Bangkok
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.8	5.5-9	EN0020	Bangkok
Temperature *	°C	-	-	30.0	≤45	EN0097	Bangkok
Total Suspended Solids	mg/L	-	5	18	≤200	EN0102	Bangkok

Guideline: Industrial Land on Criteria of wastewater discharging to central wastewater treatment plant
Comment: Sampling is not included in scope of accreditation ISO/IEC 17025
Key:
- 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

Signatories

Sirilak Bunnak, Section Head, 1-204-s-0013
Kanokkorn Anek, Assistant General Manager, 1-204-e-0004

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ALS Laboratory Group (Thailand) Co.,Ltd. Bangkok Life Sciences

Analysis Report

TESTING No.0009

Work Order: **BK2534547**
Client: WHA Utilities and Power Public Company Limited, 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140
Project: WHA SIL
Project Location: TS Tech (Thailand) Co.,Ltd._147_WWT_061_2566
Date Received: Oct 01, 2025
Date Reported: Oct 16, 2025
Report Number: BK2534547-AA (1)

Sample Number: BK2534547-001
Sampled Date: Oct 01, 2025 01:15 PM
Sample Name: Group 2 Wastewater WW-CT
Sampling Site: TS Tech (Thailand) Co.,Ltd.
Contract ID: WWT_061_2566
Plot: 147
Date of Analysis: Oct 02, 2025
Sampled by: Pichai Boonyong (1-204-s-0082)
Condition of Sample: 1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H_2SO_4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties: yellow, some odour, some solids, turbid

Brief Method Summaries

The methods in the analysis report are short format, refer to full test methods in accordance with the ISO/IEC 17025 certificate no. specified in the analysis report.

Method	Testing Lab	Method Descriptions
EN0020	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0097	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B
EN0102	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

—— END OF REPORT ——

Signatories

Sirilak Bunnak, Section Head, 1-204-s-0013
Kanokkorn Anek, Assistant General Manager, 1-204-e-0004

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ALS Laboratory Group (Thailand) Co.,Ltd. Bangkok Life Sciences

Analysis Report

TESTING No.0009

Work Order: **BK2534549**
Client: WHA Utilities and Power Public Company Limited, 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140
Project: WHA SIL
Project Location: Villeroy & Boch (Thailand) Co.,Ltd._4,32_WWT_012_2564
Date Received: Oct 09, 2025
Date Reported: Oct 17, 2025
Report Number: BK2534549-AA

Sample Number: BK2534549-001
Sampled Date: Oct 09, 2025 10:40 AM
Sample Name: Group 2 Wastewater WW-CT
Sampling Site: Villeroy & Boch (Thailand) Co.,Ltd.
Contract ID: WWT_012_2564
Plot: 4,32
Date of Analysis: Oct 10, 2025
Sampled by: Panupong Saenoi (1-204-s-0204)
Condition of Sample: 1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H_2SO_4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties: yellow, strong odour, lots of solids, highly turbid

Analytical Results

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	20.8	≤500	EN0044	Bangkok
COD	mg/L	-	25	106	≤750	EN0046	Bangkok
Oil & Grease	mg/L	-	3	7	≤10	EN0048	Bangkok
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.4	5.5-9	EN0020	Bangkok
Temperature *	°C	-	-	31.1	≤45	EN0097	Bangkok
Total Suspended Solids	mg/L	-	5	29	≤200	EN0102	Bangkok

Guideline: Industrial Land on Criteria of wastewater discharging to central wastewater treatment plant
Comment: Sampling is not included in scope of accreditation ISO/IEC 17025
Key:
- 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

Signatories

Sirilak Bunnak, Section Head, 1-204-s-0013
Kanokkorn Anek, Assistant General Manager, 1-204-e-0004

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

ALS Laboratory Group (Thailand) Co.,Ltd. Bangkok Life Sciences

Analysis Report

TESTING No.0009

Work Order	BK2534549	Date Received	Oct 09, 2025
Client	WHA Utilities and Power Public Company Limited, 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported	Oct 17, 2025
Project	WHA SIL	Report Number	BK2534549-AA
Project Location	Villeroy & Boch (Thailand) Co.,Ltd_4,32_WWT_012_2564		

Sample Number	BK2534549-001
Sampled Date	Oct 09, 2025 10:40 AM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	Villeroy & Boch (Thailand) Co.,Ltd
Contract ID	WWT_012_2564
Plot	4,32
Date of Analysis	Oct 10, 2025
Sampled by	Panupong Saenoi (1-204-s-0204)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H_2SO_4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, strong odour, lots of solids, highly turbid

Brief Method Summaries

The methods in the analysis report are short format, refer to full test methods in accordance with the ISO/IEC 17025 certificate no. specified in the analysis report.

Method	Testing Lab	Method Descriptions
EN0020	Bangkok	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Bangkok	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Bangkok	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Bangkok	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0097	Bangkok	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 2550 B
EN0102	Bangkok	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

——— END OF REPORT ———

Signatories

Sirluk Bunrak, Section Head, 1-204-s-0013
Kanokkorn Anek, Assistant General Manager, 1-204-e-0004

Analysis Report

TESTING No.0009

Work Order	BK2534550	Date Received	Oct 01, 2025
Client	WHA Utilities and Power Public Company Limited, 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported	Oct 16, 2025
Project	WHA SIL	Report Number	BK2534550-AA (1)
Project Location	WHA Corporation Public Limited Company_153-154_WWT_074_2557		

Sample Number	BK2534550-001
Sampled Date	Oct 01, 2025 11:15 AM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	WHA Corporation Public Limited Company
Contract ID	WWT_074_2557
Plot	153-154
Date of Analysis	Oct 02, 2025
Sampled by	Pichai Boonyong (1-204-s-0062)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H_2SO_4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, strong odour, lots of solids, highly turbid

Analytical Results

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	85.8	≤500	EN0044	Bangkok
COD	mg/L	-	25	209	≤750	EN0046	Bangkok
Oil & Grease	mg/L	-	3	<3	≤10	EN0048	Bangkok
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.6	5.5-9	EN0020	Bangkok
Temperature *	°C	-	-	31.1	≤40	EN0097	Bangkok
Total Suspended Solids	mg/L	-	5	56	≤200	EN0102	Bangkok

Guideline : Industrial Land on Criteria of wastewater discharging to central wastewater treatment plant
Comment : Sampling is not included in scope of accreditation ISO/IEC 17025
Key :
- 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

Signatories

Sirluk Bunrak, Section Head, 1-204-s-0013
Kanokkorn Anek, Assistant General Manager, 1-204-e-0004

Analysis Report

TESTING No.0009

Work Order	BK2534550	Date Received	Oct 01, 2025
Client	WHA Utilities and Power Public Company Limited, 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported	Oct 16, 2025
Project	WHA SIL	Report Number	BK2534550-AA (1)
Project Location	WHA Corporation Public Limited Company_153-154_WWT_074_2557		

Sample Number	BK2534550-001
Sampled Date	Oct 01, 2025 11:15 AM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	WHA Corporation Public Limited Company
Contract ID	WWT_074_2557
Plot	153-154
Date of Analysis	Oct 02, 2025
Sampled by	Pichai Boonyong (1-204-s-0062)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H_2SO_4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, strong odour, lots of solids, highly turbid

Brief Method Summaries

The methods in the analysis report are short format, refer to full test methods in accordance with the ISO/IEC 17025 certificate no. specified in the analysis report.

Method	Testing Lab	Method Descriptions
EN0020	Bangkok	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Bangkok	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Bangkok	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Bangkok	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0097	Bangkok	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 2550 B
EN0102	Bangkok	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

——— END OF REPORT ———

Signatories

Sirluk Bunrak, Section Head, 1-204-s-0013
Kanokkorn Anek, Assistant General Manager, 1-204-e-0004

Analysis Report

TESTING No.0009

Work Order	BK2534551	Date Received	Oct 01, 2025
Client	WHA Utilities and Power Public Company Limited, 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported	Oct 16, 2025
Project	WHA SIL	Report Number	BK2534551-AA (1)
Project Location	WHA Corporation Public Limited Company_93A/1_WWT_075_2557		

Sample Number	BK2534551-001
Sampled Date	Oct 01, 2025 10:45 AM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	WHA Corporation Public Limited Company
Contract ID	WWT_075_2557
Plot	93A/1
Date of Analysis	Oct 02, 2025
Sampled by	Pichai Boonyong (1-204-s-0062)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H_2SO_4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, strong odour, some solids, highly turbid

Analytical Results

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	87.4	≤500	EN0044	Bangkok
COD	mg/L	-	25	176	≤750	EN0046	Bangkok
Oil & Grease	mg/L	-	3	<3	≤10	EN0048	Bangkok
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.9	5.5-9	EN0020	Bangkok
Temperature *	°C	-	-	31.0	≤40	EN0097	Bangkok
Total Suspended Solids	mg/L	-	5	38	≤200	EN0102	Bangkok

Guideline : Industrial Land on Criteria of wastewater discharging to central wastewater treatment plant
Comment : Sampling is not included in scope of accreditation ISO/IEC 17025
Key :
- 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

Signatories

Sirluk Bunrak, Section Head, 1-204-s-0013
Kanokkorn Anek, Assistant General Manager, 1-204-e-0004

Analysis Report

TESTING No.0009

Work Order	BK2534551	Date Received	Oct 01, 2025
Client	WHA Utilities and Power Public Company Limited, 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported	Oct 16, 2025
Project	WHA SIL	Report Number	BK2534551-AA (1)
Project Location	WHA Corporation Public Limited Company_93A/1_WWT_075_2557		

Sample Number	BK2534551-001
Sampled Date	Oct 01, 2025 10:45 AM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	WHA Corporation Public Limited Company
Contract ID	WWT_075_2557
Plot	93A/1
Date of Analysis	Oct 02, 2025
Sampled by	Pichai Boonyong (1-204-s-0062)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H_2SO_4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, strong odour, some solids, highly turbid

Brief Method Summaries

The methods in the analysis report are short format, refer to full test methods in accordance with the ISO/IEC 17025 certificate no. specified in the analysis report.

Method	Testing Lab	Method Descriptions
EN0020	Bangkok	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Bangkok	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Bangkok	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Bangkok	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0097	Bangkok	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 2550 B
EN0102	Bangkok	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

——— END OF REPORT ———

Signatories

Sirluk Bunrak, Section Head, 1-204-s-0013
Kanokkorn Anek, Assistant General Manager, 1-204-e-0004

Analysis Report

TESTING No.0009

Work Order	BK2534552	Date Received	Oct 01, 2025
Client	WHA Utilities and Power Public Company Limited, 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported	Oct 16, 2025
Project	WHA SIL	Report Number	BK2534552-AA (1)
Project Location	WHA Corporation Public Limited Company_151-152_WWT_037_2556		

Sample Number	BK2534552-001
Sampled Date	Oct 01, 2025 11:20 AM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	WHA Corporation Public Limited Company
Contract ID	WWT_037_2556
Plot	151-152
Date of Analysis	Oct 02, 2025
Sampled by	Pichai Boonyong (1-204-s-0062)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H_2SO_4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	brown, strong odour, lots of solids, highly turbid

Analytical Results

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	75.0	≤500	EN0044	Bangkok
COD	mg/L	-	25	607	≤750	EN0046	Bangkok
Oil & Grease	mg/L	-	3	6	≤10	EN0048	Bangkok
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.7	5.5-9	EN0020	Bangkok
Temperature *	°C	-	-	31.3	≤40	EN0097	Bangkok
Total Suspended Solids	mg/L	-	5	532	≤200	EN0102	Bangkok

Guideline : Industrial Land on Criteria of wastewater discharging to central wastewater treatment plant
Comment : Sampling is not included in scope of accreditation ISO/IEC 17025
Key :
- 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

Signatories

Sirluk Bunrak, Section Head, 1-204-s-0013
Kanokkorn Anek, Assistant General Manager, 1-204-e-0004

Analysis Report

TESTING No.0009

Work Order	BK2534552	Date Received	Oct 01, 2025
Client	WHA Utilities and Power Public Company Limited, 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported	Oct 16, 2025
Project	WHA SIL	Report Number	BK2534552-AA (1)
Project Location	WHA Corporation Public Limited Company_151-152_WWT_037_2556		

Sample Number	BK2534552-001
Sampled Date	Oct 01, 2025 11:20 AM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	WHA Corporation Public Limited Company
Contract ID	WWT_037_2556
Plot	151-152
Date of Analysis	Oct 02, 2025
Sampled by	Pichai Boonyong (1-204-s-0062)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H_2SO_4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	brown, strong odour, lots of solids, highly turbid

Brief Method Summaries

The methods in the analysis report are short format, refer to full test methods in accordance with the ISO/IEC 17025 certificate no. specified in the analysis report.

Method	Testing Lab	Method Descriptions
EN0020	Bangkok	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Bangkok	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Bangkok	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Bangkok	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0097	Bangkok	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 2550 B
EN0102	Bangkok	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

——— END OF REPORT ———

Signatories

Sirluk Bunrak, Section Head, 1-204-s-0013
Kanokkorn Anek, Assistant General Manager, 1-204-e-0004

Analysis Report

TESTING No.0009

Work Order	BK2534555	Date Received	Oct 01, 2025
Client	WHA Utilities and Power Public Company Limited, 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported	Oct 16, 2025
Project	WHA SIL	Report Number	BK2534555-AA (1)
Project Location	World Quality Co.,Ltd._27(F)_WWT_089_2567		

Sample Number	BK2534555-001
Sampled Date	Oct 01, 2025 11:30 AM
Sample Name	Group 2 Wastewater WW-CT : Point 1
Sampling Site	World Quality Co.,Ltd
Contract ID	WWT_089_2567
Plot	27(F)
Date of Analysis	Oct 02, 2025
Sampled by	Panupong Saenoi (1-204-s-0204)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H_2SO_4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, some odour, some solids, turbid

Analytical Results

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	96.7	≤500	EN0044	Bangkok
COD	mg/L	-	25	204	≤750	EN0046	Bangkok
Oil & Grease	mg/L	-	3	4	≤10	EN0048	Bangkok
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.6	5.5-9	EN0020	Bangkok
Temperature *	°C	-	-	30.6	≤40	EN0097	Bangkok
Total Suspended Solids	mg/L	-	5	46	≤200	EN0102	Bangkok

Guideline : Industrial Land on Criteria of wastewater discharging to central wastewater treatment plant
Comment : Sampling is not included in scope of accreditation ISO/IEC 17025
Key :
- 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

Signatories

Sirluk Bunrak, Section Head, 1-204-s-0013
Kanokkorn Anek, Assistant General Manager, 1-204-e-0004

Analysis Report

TESTING No.0009

Work Order	BK2534555	Date Received	Oct 01, 2025
Client	WHA Utilities and Power Public Company Limited, 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported	Oct 16, 2025
Project	WHA SIL	Report Number	BK2534555-AA (1)
Project Location	World Quality Co.,Ltd._27(F)_WWT_089_2567		

Sample Number	BK2534555-001
Sampled Date	Oct 01, 2025 11:30 AM
Sample Name	Group 2 Wastewater WW-CT : Point 1
Sampling Site	World Quality Co.,Ltd
Contract ID	WWT_089_2567
Plot	27(F)
Date of Analysis	Oct 02, 2025
Sampled by	Panupong Saenoi (1-204-s-0204)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H_2SO_4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, some odour, some solids, turbid

Brief Method Summaries

The methods in the analysis report are short format, refer to full test methods in accordance with the ISO/IEC 17025 certificate no. specified in the analysis report.

Method	Testing Lab	Method Descriptions
EN0020	Bangkok	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Bangkok	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Bangkok	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Bangkok	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0097	Bangkok	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 2550 B
EN0102	Bangkok	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

——— END OF REPORT ———

Signatories

Sirluk Bunrak, Section Head, 1-204-s-0013
Kanokkorn Anek, Assistant General Manager, 1-204-e-0004

Analysis Report

Work Order	BK2537411	Date Received	Nov 12, 2025
Client	WHA Utilities and Power Public Company Limited 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported	Nov 18, 2025
		Report Number	BK2537411-AA
Project	WHA SIL		
Project Location	Air Liquide (Thailand) Co.,Ltd.,1_,WWT_WHASIL_001_2564		

Sample Number	BK2537411-001
Sampled Date	Nov 12, 2025 12:10 PM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	Air Liquide (Thailand) Co.,Ltd.
Contract ID	WWT_WHASIL_001_2564
Plot	1
Date of Analysis	Nov 13, 2025
Sampled by	Panupong Saenoi (1-204-n-0204)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logwheel data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, some odour, some solids, no turbidity

Analytical Results

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	8.7	≤500	EN0044	Bangkok
COD	mg/L	-	25	81	≤750	EN0046	Bangkok
Oil & Grease	mg/L	-	3	<3	≤10	EN0048	Bangkok
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	8.1	5.5-9	EN0020	Bangkok
Temperature *	°C	-	-	31.4	≤45	EN0097	Bangkok
Total Suspended Solids	mg/L	-	5	1	≤200	EN0102	Bangkok

Guideline : Industrial Land on Criteria of wastewater discharging to central wastewater treatment plant
Comment : Sampling is not included in scope of accreditation ISO/IEC 17025
Key : a LOD : Limit of Detection
b "-" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
c Analyte(s) marked " * " is/are not included in scope of Accreditation ISO/IEC17025

Signatories

Nunthawadee Somboon
Specialist 2
1-204-n-0010

Kanokkorn Anek
Assistant General Manager
1-204-n-0004

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

Analysis Report

Work Order	BK2537411	Date Received	Nov 12, 2025
Client	WHA Utilities and Power Public Company Limited 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported	Nov 18, 2025
		Report Number	BK2537411-AA
Project	WHA SIL		
Project Location	Air Liquide (Thailand) Co.,Ltd.,1_,WWT_WHASIL_001_2564		

Sample Number	BK2537411-001
Sampled Date	Nov 12, 2025 12:10 PM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	Air Liquide (Thailand) Co.,Ltd.
Contract ID	WWT_WHASIL_001_2564
Plot	1
Date of Analysis	Nov 13, 2025
Sampled by	Panupong Saenoi (1-204-n-0204)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logwheel data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, some odour, some solids, no turbidity

Brief Method Summaries

The methods in the analysis report are short format, refer to full test methods in accordance with the ISO/IEC 17025 certificate inc. specified in the analysis report.

Method	Testing Lab	Method Descriptions
EN0020	Bangkok	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Bangkok	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0048	Bangkok	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0046	Bangkok	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0097	Bangkok	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2550 B
EN0102	Bangkok	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

—— END OF REPORT ——

Signatories

Nunthawadee Somboon
Specialist 2
1-204-n-0010

Kanokkorn Anek
Assistant General Manager
1-204-n-0004

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

Analysis Report

Work Order	BK2537416	Date Received	Nov 05, 2025
Client	WHA Utilities and Power Public Company Limited 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported	Nov 18, 2025
		Report Number	BK2537416-AA (1)
Project	WHA SIL		
Project Location	Delyu Seal (Thailand) Co.,Ltd.,93D_,WWT_WHASIL_043_2566		

Sample Number	BK2537416-001
Sampled Date	Nov 05, 2025 11:10 AM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	Delyu Seal (Thailand) Co.,Ltd.
Contract ID	WWT_WHASIL_043_2566
Plot	93D
Date of Analysis	Nov 06, 2025
Sampled by	Panupong Saenoi (1-204-n-0204)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logwheel data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, some odour, lots of solids, turbid

Analytical Results

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	26.0	≤500	EN0044	Bangkok
COD	mg/L	-	25	82	≤750	EN0046	Bangkok
Oil & Grease	mg/L	-	3	4	≤10	EN0048	Bangkok
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.6	5.5-9	EN0020	Bangkok
Temperature *	°C	-	-	30.0	≤45	EN0097	Bangkok
Total Suspended Solids	mg/L	-	5	86	≤200	EN0102	Bangkok

Guideline : Industrial Land on Criteria of wastewater discharging to central wastewater treatment plant
Comment : Sampling is not included in scope of accreditation ISO/IEC 17025
Key : a LOD : Limit of Detection
b "-" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
c Analyte(s) marked " * " is/are not included in scope of Accreditation ISO/IEC17025

Signatories

Sirikuk Bunruk
Section Head
1-204-n-0013

Kanokkorn Anek
Assistant General Manager
1-204-n-0004

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

Analysis Report

Work Order	BK2537416	Date Received	Nov 05, 2025
Client	WHA Utilities and Power Public Company Limited 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported	Nov 18, 2025
		Report Number	BK2537416-AA (1)
Project	WHA SIL		
Project Location	Delyu Seal (Thailand) Co.,Ltd.,93D_,WWT_WHASIL_043_2566		

Sample Number	BK2537416-001
Sampled Date	Nov 05, 2025 11:10 AM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	Delyu Seal (Thailand) Co.,Ltd.
Contract ID	WWT_WHASIL_043_2566
Plot	93D
Date of Analysis	Nov 06, 2025
Sampled by	Panupong Saenoi (1-204-n-0204)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logwheel data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, some odour, lots of solids, turbid

Brief Method Summaries

The methods in the analysis report are short format, refer to full test methods in accordance with the ISO/IEC 17025 certificate inc. specified in the analysis report.

Method	Testing Lab	Method Descriptions
EN0020	Bangkok	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Bangkok	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0048	Bangkok	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0046	Bangkok	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0097	Bangkok	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2550 B
EN0102	Bangkok	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

—— END OF REPORT ——

Signatories

Sirikuk Bunruk
Section Head
1-204-n-0013

Kanokkorn Anek
Assistant General Manager
1-204-n-0004

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

Analysis Report

Work Order	BK2537417	Date Received	Nov 05, 2025
Client	WHA Utilities and Power Public Company Limited 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported	Nov 18, 2025
		Report Number	BK2537417-AA (1)
Project	WHA SIL		
Project Location	D-HAPPENNING COMPANY LIMITED.,46,84_,WWT_WHASIL_004_2560		

Sample Number	BK2537417-001
Sampled Date	Nov 05, 2025 01:30 PM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	D-HAPPENNING COMPANY LIMITED
Contract ID	WWT_WHASIL_004_2560
Plot	46,84
Date of Analysis	Nov 06, 2025
Sampled by	Panupong Saenoi (1-204-n-0204)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logwheel data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, some odour, some solids, turbid

Analytical Results

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	<2.0	≤500	EN0044	Bangkok
COD	mg/L	-	25	<25	≤750	EN0046	Bangkok
Oil & Grease	mg/L	-	3	<3	≤10	EN0048	Bangkok
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	8.1	5.5-9	EN0020	Bangkok
Temperature *	°C	-	-	28.7	≤45	EN0097	Bangkok
Total Suspended Solids	mg/L	-	5	24	≤200	EN0102	Bangkok

Guideline : Industrial Land on Criteria of wastewater discharging to central wastewater treatment plant
Comment : Sampling is not included in scope of accreditation ISO/IEC 17025
Key : a LOD : Limit of Detection
b "-" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
c Analyte(s) marked " * " is/are not included in scope of Accreditation ISO/IEC17025

Signatories

Sirikuk Bunruk
Section Head
1-204-n-0013

Kanokkorn Anek
Assistant General Manager
1-204-n-0004

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

Analysis Report

Work Order	BK2537417	Date Received	Nov 05, 2025
Client	WHA Utilities and Power Public Company Limited 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported	Nov 18, 2025
		Report Number	BK2537417-AA (1)
Project	WHA SIL		
Project Location	D-HAPPENNING COMPANY LIMITED.,46,84_,WWT_WHASIL_004_2560		

Sample Number	BK2537417-001
Sampled Date	Nov 05, 2025 01:30 PM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	D-HAPPENNING COMPANY LIMITED
Contract ID	WWT_WHASIL_004_2560
Plot	46,84
Date of Analysis	Nov 06, 2025
Sampled by	Panupong Saenoi (1-204-n-0204)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logwheel data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, some odour, some solids, turbid

Brief Method Summaries

The methods in the analysis report are short format, refer to full test methods in accordance with the ISO/IEC 17025 certificate inc. specified in the analysis report.

Method	Testing Lab	Method Descriptions
EN0020	Bangkok	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Bangkok	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0048	Bangkok	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0046	Bangkok	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0097	Bangkok	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2550 B
EN0102	Bangkok	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

—— END OF REPORT ——

Signatories

Sirikuk Bunruk
Section Head
1-204-n-0013

Kanokkorn Anek
Assistant General Manager
1-204-n-0004

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

Analysis Report

Work Order	BK2537418	Date Received	Nov 07, 2025
Client	WHA Utilities and Power Public Company Limited 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported	Nov 18, 2025
		Report Number	BK2537418-AA (1)
Project	WHA SIL		
Project Location	D-Rubber Products Co.,Ltd.,54_,WWT_WHASIL_003_2564		

Sample Number	BK2537418-001
Sampled Date	Nov 07, 2025 10:00 AM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	D-Rubber Products Co.,Ltd.
Contract ID	WWT_WHASIL_003_2564
Plot	54
Date of Analysis	Nov 08, 2025
Sampled by	Panupong Saenoi (1-204-n-0204)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logwheel data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, some odour, some solids, turbid

Analytical Results

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	108	≤500	EN0044	Bangkok
COD	mg/L	-	25	≤25	≤750	EN0046	Bangkok
Oil & Grease	mg/L	-	3	<3	≤10	EN0048	Bangkok
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.8	5.5-9	EN0020	Bangkok
Temperature *	°C	-	-	36.7	≤45	EN0097	Bangkok
Total Suspended Solids	mg/L	-	5	30	≤200	EN0102	Bangkok

Guideline : Industrial Land on Criteria of wastewater discharging to central wastewater treatment plant
Comment : Sampling is not included in scope of accreditation ISO/IEC 17025
Key : a LOD : Limit of Detection
b "-" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
c Analyte(s) marked " * " is/are not included in scope of Accreditation ISO/IEC17025

Signatories

Sirikuk Bunruk
Section Head
1-204-n-0013

Kanokkorn Anek
Assistant General Manager
1-204-n-0004

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

Analysis Report

Work Order	BK2537418	Date Received	Nov 07, 2025
Client	WHA Utilities and Power Public Company Limited 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported	Nov 18, 2025
		Report Number	BK2537418-AA (1)
Project	WHA SIL		
Project Location	D-Rubber Products Co.,Ltd.,54_,WWT_WHASIL_003_2564		

Sample Number	BK2537418-001
Sampled Date	Nov 07, 2025 10:00 AM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	D-Rubber Products Co.,Ltd.
Contract ID	WWT_WHASIL_003_2564
Plot	54
Date of Analysis	Nov 08, 2025
Sampled by	Panupong Saenoi (1-204-n-0204)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logwheel data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, some odour, some solids, turbid

Brief Method Summaries

The methods in the analysis report are short format, refer to full test methods in accordance with the ISO/IEC 17025 certificate inc. specified in the analysis report.

Method	Testing Lab	Method Descriptions
EN0020	Bangkok	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Bangkok	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0048	Bangkok	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0046	Bangkok	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0097	Bangkok	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2550 B
EN0102	Bangkok	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

—— END OF REPORT ——

Signatories

Sirikuk Bunruk
Section Head
1-204-n-0013

Kanokkorn Anek
Assistant General Manager
1-204-n-0004

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

Analysis Report

Work Order	BK2537419	Date Received	Nov 05, 2025
Client	WHA Utilities and Power Public Company Limited 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported	Nov 18, 2025
		Report Number	BK2537419-AA (1)
Project	WHA SIL		
Project Location	DSG International (Thailand) PLC.,39_,WWT_WHASIL_004_2564		

Sample Number	BK2537419-001
Sampled Date	Nov 05, 2025 10:30 AM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	DSG International (Thailand) PLC.
Contract ID	WWT_WHASIL_004_2564
Plot	39
Date of Analysis	Nov 06, 2025
Sampled by	Panupong Saenoi (1-204-n-0204)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logwheel data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, some odour, some solids, turbid

Analytical Results

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	16.3	≤500	EN0044	Bangkok
COD	mg/L	-	25	83	≤750	EN0046	Bangkok
Oil & Grease	mg/L	-	3	3	≤10	EN0048	Bangkok
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.8	5.5-9	EN0020	Bangkok
Temperature *	°C	-	-	29.4	≤45	EN0097	Bangkok
Total Suspended Solids	mg/L	-	5	19	≤200	EN0102	Bangkok

Guideline : Industrial Land on Criteria of wastewater discharging to central wastewater treatment plant
Comment : Sampling is not included in scope of accreditation ISO/IEC 17025
Key : a LOD : Limit of Detection
b "-" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
c Analyte(s) marked " * " is/are not included in scope of Accreditation ISO/IEC17025

Signatories

Sirikuk Bunruk
Section Head
1-204-n-0013

Kanokkorn Anek
Assistant General Manager
1-204-n-0004

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

Analysis Report

TESTING No.0009

Work Order	BK2537419	Date Received	Nov 05, 2025
Client	WHA Utilities and Power Public Company Limited, 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported	Nov 18, 2025
Project	WHA SIL	Report Number	BK2537419-AA (1)
Project Location	DSG International (Thailand) PLC._39_WWT_WHASIL_004_2564		

Sample Number	BK2537419-001
Sampled Date	Nov 05, 2025 10:36 AM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	DSG International (Thailand) PLC
Contract ID	WWT_WHASIL_004_2564
Plot	39
Date of Analysis	Nov 06, 2025
Sampled by	Panupong Saenot (1-204-s-0204)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, some odour, some solids, turbid

Brief Method Summaries

The methods in the analysis report are short format, refer to full test methods in accordance with the ISO/IEC 17025 certificate no. specified in the analysis report.

Method	Testing Lab	Method Descriptions
EN0020	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0097	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B
EN0102	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

——— END OF REPORT ———

Signatories

Siriluk Burnak	Kanokkorn Anek
Section Head	Assistant General Manager
1-204-s-0013	1-204-e-0004

Analysis Report

TESTING No.0009

Work Order	BK2537423	Date Received	Nov 05, 2025
Client	WHA Utilities and Power Public Company Limited, 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported	Nov 18, 2025
Project	WHA SIL	Report Number	BK2537423-AA (1)
Project Location	FTN (Saraburi) Co.,Ltd._148_WWT_WHASIL_031_2565		

Sample Number	BK2537423-001
Sampled Date	Nov 05, 2025 09:50 AM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	FTN (Saraburi) Co.,Ltd
Contract ID	WWT_WHASIL_031_2565
Plot	148
Date of Analysis	Nov 06, 2025
Sampled by	Panupong Saenot (1-204-s-0204)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, some odour, some solids, no turbidity

Analytical Results

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	<2.0	≤500	EN0044	Bangkok
COD	mg/L	-	25	<25	≤750	EN0046	Bangkok
Oil & Grease	mg/L	-	3	<3	≤10	EN0048	Bangkok
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.1	5.5-9	EN0020	Bangkok
Temperature *	°C	-	-	28.8	≤40	EN0097	Bangkok
Total Suspended Solids	mg/L	-	5	<5	≤200	EN0102	Bangkok

Guideline : Industrial Land on Criteria of wastewater discharging to central wastewater treatment plant

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

Key :
- 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/IEC17025

Signatories

Siriluk Burnak	Kanokkorn Anek
Section Head	Assistant General Manager
1-204-s-0013	1-204-e-0004

Analysis Report

TESTING No.0009

Work Order	BK2537423	Date Received	Nov 05, 2025
Client	WHA Utilities and Power Public Company Limited, 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported	Nov 18, 2025
Project	WHA SIL	Report Number	BK2537423-AA (1)
Project Location	FTN (Saraburi) Co.,Ltd._148_WWT_WHASIL_031_2565		

Sample Number	BK2537423-001
Sampled Date	Nov 05, 2025 09:50 AM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	FTN (Saraburi) Co.,Ltd
Contract ID	WWT_WHASIL_031_2565
Plot	148
Date of Analysis	Nov 06, 2025
Sampled by	Panupong Saenot (1-204-s-0204)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, some odour, some solids, no turbidity

Brief Method Summaries

The methods in the analysis report are short format, refer to full test methods in accordance with the ISO/IEC 17025 certificate no. specified in the analysis report.

Method	Testing Lab	Method Descriptions
EN0020	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0097	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B
EN0102	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

——— END OF REPORT ———

Signatories

Siriluk Burnak	Kanokkorn Anek
Section Head	Assistant General Manager
1-204-s-0013	1-204-e-0004

Analysis Report

TESTING No.0009

Work Order	BK2537424	Date Received	Nov 05, 2025
Client	WHA Utilities and Power Public Company Limited, 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported	Nov 18, 2025
Project	WHA SIL	Report Number	BK2537424-AA (1)
Project Location	Fujikoki Corporation_77,78_WWT_WHASIL_006_2564		

Sample Number	BK2537424-001
Sampled Date	Nov 05, 2025 09:20 AM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	Fujikoki Corporation
Contract ID	WWT_WHASIL_006_2564
Plot	77,78
Date of Analysis	Nov 06, 2025
Sampled by	Panupong Saenot (1-204-s-0204)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, some odour, some solids, turbid

Analytical Results

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	10.7	≤500	EN0044	Bangkok
COD	mg/L	-	25	48	≤750	EN0046	Bangkok
Oil & Grease	mg/L	-	3	<3	≤10	EN0048	Bangkok
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	8.4	5.5-9	EN0020	Bangkok
Temperature *	°C	-	-	28.2	≤40	EN0097	Bangkok
Total Suspended Solids	mg/L	-	5	17	≤200	EN0102	Bangkok

Guideline : Industrial Land on Criteria of wastewater discharging to central wastewater treatment plant

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

Key :
- 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/IEC17025

Signatories

Siriluk Burnak	Kanokkorn Anek
Section Head	Assistant General Manager
1-204-s-0013	1-204-e-0004

Analysis Report

TESTING No.0009

Work Order	BK2537424	Date Received	Nov 05, 2025
Client	WHA Utilities and Power Public Company Limited, 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported	Nov 18, 2025
Project	WHA SIL	Report Number	BK2537424-AA (1)
Project Location	Fujikoki Corporation_77,78_WWT_WHASIL_006_2564		

Sample Number	BK2537424-001
Sampled Date	Nov 05, 2025 09:20 AM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	Fujikoki Corporation
Contract ID	WWT_WHASIL_006_2564
Plot	77,78
Date of Analysis	Nov 06, 2025
Sampled by	Panupong Saenot (1-204-s-0204)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, some odour, some solids, turbid

Brief Method Summaries

The methods in the analysis report are short format, refer to full test methods in accordance with the ISO/IEC 17025 certificate no. specified in the analysis report.

Method	Testing Lab	Method Descriptions
EN0020	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0097	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B
EN0102	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

——— END OF REPORT ———

Signatories

Siriluk Burnak	Kanokkorn Anek
Section Head	Assistant General Manager
1-204-s-0013	1-204-e-0004

Analysis Report

TESTING No.0009

Work Order	BK2537450	Date Received	Nov 12, 2025
Client	WHA Utilities and Power Public Company Limited, 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported	Nov 18, 2025
Project	WHA SIL	Report Number	BK2537450-AA
Project Location	Guardian Industries Corp Ltd._2_WWT_WHASIL_006_2564		

Sample Number	BK2537450-001
Sampled Date	Nov 12, 2025 11:50 AM
Sample Name	Group 2 Wastewater WW-CT : Point 1
Sampling Site	Guardian Industries Corp Ltd.
Contract ID	WWT_WHASIL_006_2564
Plot	2
Date of Analysis	Nov 13, 2025
Sampled by	Panupong Saenot (1-204-s-0204)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, some odour, some solids, no turbidity

Analytical Results

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	16.1	≤500	EN0044	Bangkok
COD	mg/L	-	25	80	≤750	EN0046	Bangkok
Oil & Grease	mg/L	-	3	7	≤10	EN0048	Bangkok
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	8.1	5.5-9	EN0020	Bangkok
Temperature *	°C	-	-	32.8	≤40	EN0097	Bangkok
Total Suspended Solids	mg/L	-	5	13	≤200	EN0102	Bangkok

Guideline : Industrial Land on Criteria of wastewater discharging to central wastewater treatment plant

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

Key :
- 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/IEC17025

Signatories

Nanthawadee Somboon	Kanokkorn Anek
Specialist 2	Assistant General Manager
1-204-s-0010	1-204-e-0004

Analysis Report

TESTING No.0009

Work Order	BK2537450	Date Received	Nov 12, 2025
Client	WHA Utilities and Power Public Company Limited, 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported	Nov 18, 2025
Project	WHA SIL	Report Number	BK2537450-AA
Project Location	Guardian Industries Corp Ltd._2_WWT_WHASIL_006_2564		

Sample Number	BK2537450-001
Sampled Date	Nov 12, 2025 11:50 AM
Sample Name	Group 2 Wastewater WW-CT : Point 1
Sampling Site	Guardian Industries Corp Ltd.
Contract ID	WWT_WHASIL_006_2564
Plot	2
Date of Analysis	Nov 13, 2025
Sampled by	Panupong Saenot (1-204-s-0204)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, some odour, some solids, no turbidity

Brief Method Summaries

The methods in the analysis report are short format, refer to full test methods in accordance with the ISO/IEC 17025 certificate no. specified in the analysis report.

Method	Testing Lab	Method Descriptions
EN0020	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0097	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B
EN0102	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

——— END OF REPORT ———

Signatories

Nanthawadee Somboon	Kanokkorn Anek
Specialist 2	Assistant General Manager
1-204-s-0010	1-204-e-0004

Analysis Report

TESTING No.0009

Work Order	BK2537451	Date Received	Nov 12, 2025
Client	WHA Utilities and Power Public Company Limited, 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported	Nov 18, 2025
Project	WHA SIL	Report Number	BK2537451-AA
Project Location	Guardian Industries Corp Ltd._2_WWT_WHASIL_007_2564		

Sample Number	BK2537451-001
Sampled Date	Nov 12, 2025 11:58 AM
Sample Name	Group 2 Wastewater WW-CT : Point 2
Sampling Site	Guardian Industries Corp Ltd.
Contract ID	WWT_WHASIL_007_2564
Plot	2
Date of Analysis	Nov 13, 2025
Sampled by	Panupong Saenot (1-204-s-0204)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, some odour, some solids, no turbidity

Analytical Results

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	4.8	≤500	EN0044	Bangkok
COD	mg/L	-	25	<25	≤750	EN0046	Bangkok
Oil & Grease	mg/L	-	3	<3	≤10	EN0048	Bangkok
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.8	5.5-9	EN0020	Bangkok
Temperature *	°C	-	-	30.8	≤40	EN0097	Bangkok
Total Suspended Solids	mg/L	-	5	10	≤200	EN0102	Bangkok

Guideline : Industrial Land on Criteria of wastewater discharging to central wastewater treatment plant

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

Key :
- 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/IEC17025

Signatories

Nanthawadee Somboon	Kanokkorn Anek
Specialist 2	Assistant General Manager
1-204-s-0010	1-204-e-0004

Analysis Report

TESTING No.0009

Work Order	BK2537451	Date Received	Nov 12, 2025
Client	WHA Utilities and Power Public Company Limited, 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported	Nov 18, 2025
Project	WHA SIL	Report Number	BK2537451-AA
Project Location	Guardian Industries Corp Ltd._2_WWT_WHASIL_007_2564		

Sample Number	BK2537451-001
Sampled Date	Nov 12, 2025 11:58 AM
Sample Name	Group 2 Wastewater WW-CT : Point 2
Sampling Site	Guardian Industries Corp Ltd.
Contract ID	WWT_WHASIL_007_2564
Plot	2
Date of Analysis	Nov 13, 2025
Sampled by	Panupong Saenot (1-204-s-0204)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, some odour, some solids, no turbidity

Brief Method Summaries

The methods in the analysis report are short format, refer to full test methods in accordance with the ISO/IEC 17025 certificate no. specified in the analysis report.

Method	Testing Lab	Method Descriptions
EN0020	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0097	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B
EN0102	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

——— END OF REPORT ———

Signatories

Nanthawadee Somboon	Kanokkorn Anek
Specialist 2	Assistant General Manager
1-204-s-0010	1-204-e-0004

Analysis Report

TESTING No.0009

Work Order	BK2537452	Date Received	Nov 12, 2025
Client	WHA Utilities and Power Public Company Limited 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported	Nov 18, 2025
		Report Number	BK2537452-AA
Project	WHA SIL		
Project Location	Guardian Industries Corp Ltd._2_WWT_WHASIL_008_2554		

Sample Number	BK2537452-001
Sampled Date	Nov 12, 2025 11:45 AM
Sample Name	Group 2 Wastewater WW-CT : Point 3
Sampling Site	Guardian Industries Corp Ltd.
Contract ID	WWT_WHASIL_008_2554
Plot	2
Date of Analysis	Nov 13, 2025
Sampled by	Panupong Saenrot (1-204-c-0204)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H_2SO_4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, some odour, some solids, no turbidity

Analytical Results

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	8.4	≤500	EN0044	Bangkok
COD	mg/L	-	25	37	≤750	EN0048	Bangkok
Oil & Grease	mg/L	-	3	<3	≤10	EN0045	Bangkok
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	8.8	5.5-9	EN0020	Bangkok
Temperature *	°C	-	-	31.7	≤45	EN0097	Bangkok
Total Suspended Solids	mg/L	-	5	16	≤200	EN0102	Bangkok

Guideline : Industrial Land on Criteria of wastewater discharging to central wastewater treatment plant

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

Key :
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- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC17025

Signatories

Nanthawadee Somboon	Kanokkorn Anek
Specialist 2	Assistant General Manager
1-204-c-0010	1-204-e-0004

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.

ALS Laboratory Group (Thailand) Co.,Ltd. Bangkok Life Sciences

Analysis Report

TESTING No.0009

Work Order	BK2537452	Date Received	Nov 12, 2025
Client	WHA Utilities and Power Public Company Limited 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported	Nov 18, 2025
		Report Number	BK2537452-AA
Project	WHA SIL		
Project Location	Guardian Industries Corp Ltd._2_WWT_WHASIL_008_2554		

Sample Number	BK2537452-001
Sampled Date	Nov 12, 2025 11:45 AM
Sample Name	Group 2 Wastewater WW-CT : Point 3
Sampling Site	Guardian Industries Corp Ltd.
Contract ID	WWT_WHASIL_008_2554
Plot	2
Date of Analysis	Nov 13, 2025
Sampled by	Panupong Saenrot (1-204-c-0204)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H_2SO_4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, some odour, some solids, no turbidity

Brief Method Summaries

The methods in the analysis report are short format, refer to full test methods in accordance with the ISO/IEC 17025 certificate no. specified in the analysis report.

Method	Testing Lab	Method Descriptions
EN0020	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0048	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0045	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0097	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B
EN0102	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

—— END OF REPORT ——

Signatories

Nanthawadee Somboon	Kanokkorn Anek
Specialist 2	Assistant General Manager
1-204-c-0010	1-204-e-0004

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.

ALS Laboratory Group (Thailand) Co.,Ltd. Bangkok Life Sciences

Analysis Report

TESTING No.0009

Work Order	BK2537453	Date Received	Nov 06, 2025
Client	WHA Utilities and Power Public Company Limited 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported	Nov 13, 2025
		Report Number	BK2537453-AA
Project	WHA SIL		
Project Location	Gulf JP NK2 Co.,Ltd._86_WWT_WHASIL_072_2567		

Sample Number	BK2537453-001
Sampled Date	Nov 06, 2025 09:30 AM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	Gulf JP NK2 Co.,Ltd.
Contract ID	WWT_WHASIL_072_2567
Plot	86
Date of Analysis	Nov 07, 2025
Sampled by	Panupong Saenrot (1-204-c-0204)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H_2SO_4, 1x Oil & Grease, 1x Logsheet data, 1x Plastic Bottle - Preserved with NaOH, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, some odour, some solids, no turbidity

Analytical Results

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	<2.0	≤500	EN0044	Bangkok
COD	mg/L	-	25	41	≤750	EN0048	Bangkok
Oil & Grease	mg/L	-	3	<3	≤10	EN0045	Bangkok
Metals and Major Cations - Total							
Hexavalent Chromium	mg/L	0.003	0.01	Not Detected	≤0.25	ME0006	Bangkok
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	8.0	5.5-9	EN0020	Bangkok
Temperature *	°C	-	-	28.7	≤45	EN0097	Bangkok
Total Dissolved Solids at 180°C	mg/L	-	5	1320	≤3000	EN0100	Bangkok
Total Suspended Solids	mg/L	-	5	7	≤200	EN0102	Bangkok

Guideline : Industrial Land on Criteria of wastewater discharging to central wastewater treatment plant

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

Key :
- 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/IEC17025

Signatories

Sitluk Bunnak	Kanokkorn Anek
Section Head	Assistant General Manager
1-204-c-0013	1-204-e-0004

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.

ALS Laboratory Group (Thailand) Co.,Ltd. Bangkok Life Sciences

Analysis Report

TESTING No.0009

Work Order	BK2537453	Date Received	Nov 06, 2025
Client	WHA Utilities and Power Public Company Limited 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported	Nov 13, 2025
		Report Number	BK2537453-AA
Project	WHA SIL		
Project Location	Gulf JP NK2 Co.,Ltd._86_WWT_WHASIL_072_2567		

Sample Number	BK2537453-001
Sampled Date	Nov 06, 2025 09:30 AM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	Gulf JP NK2 Co.,Ltd.
Contract ID	WWT_WHASIL_072_2567
Plot	86
Date of Analysis	Nov 07, 2025
Sampled by	Panupong Saenrot (1-204-c-0204)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H_2SO_4, 1x Oil & Grease, 1x Logsheet data, 1x Plastic Bottle - Preserved with NaOH, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, some odour, some solids, no turbidity

Brief Method Summaries

The methods in the analysis report are short format, refer to full test methods in accordance with the ISO/IEC 17025 certificate no. specified in the analysis report.

Method	Testing Lab	Method Descriptions
EN0020	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0048	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0045	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0097	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B
EN0100	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C
EN0102	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D
ME0006	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3500-Cr (B)

—— END OF REPORT ——

Signatories

Sitluk Bunnak	Kanokkorn Anek
Section Head	Assistant General Manager
1-204-c-0013	1-204-e-0004

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.

ALS Laboratory Group (Thailand) Co.,Ltd. Bangkok Life Sciences

Analysis Report

TESTING No.0009

Work Order	BK2537453	Date Received	Nov 06, 2025
Client	WHA Utilities and Power Public Company Limited 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported	Nov 13, 2025
		Report Number	BK2537453-AB
Project	WHA SIL		
Project Location	Gulf JP NK2 Co.,Ltd._86_WWT_WHASIL_072_2567		

Sample Number	BK2537453-001
Sampled Date	Nov 06, 2025 09:30 AM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	Gulf JP NK2 Co.,Ltd.
Contract ID	WWT_WHASIL_072_2567
Plot	86
Date of Analysis	Nov 07, 2025
Sampled by	Panupong Saenrot
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H_2SO_4, 1x Oil & Grease, 1x Logsheet data, 1x Plastic Bottle - Preserved with NaOH, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, some odour, some solids, no turbidity

Analytical Results

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Physical and Aggregate Properties							
Conductivity at 25 °C	µS/cm	-	0.50	2130	-	EN0062	Bangkok

Key :
- LOD : Limit of Detection
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Brief Method Summaries

The methods in the analysis report are short format, refer to full test methods in accordance with the ISO/IEC 17025 certificate no. specified in the analysis report.

Method	Testing Lab	Method Descriptions
EN0062	Bangkok	Based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2510B

—— END OF REPORT ——

Signatories

Sitluk Bunnak
Section Head

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

ALS Laboratory Group (Thailand) Co.,Ltd. Bangkok Life Sciences

Analysis Report

TESTING No.0009

Work Order	BK2537454	Date Received	Nov 12, 2025
Client	WHA Utilities and Power Public Company Limited 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported	Nov 18, 2025
		Report Number	BK2537454-AA
Project	WHA SIL		
Project Location	Gulf NPM Co.,Ltd._131_WWT_WHASIL_004_2562		

Sample Number	BK2537454-001
Sampled Date	Nov 12, 2025 10:20 AM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	Gulf NPM Co.,Ltd.
Contract ID	WWT_WHASIL_004_2562
Plot	131
Date of Analysis	Nov 13, 2025
Sampled by	Panupong Saenrot (1-204-c-0204)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H_2SO_4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, some odour, some solids, no turbidity

Analytical Results

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	2.0	≤500	EN0044	Bangkok
COD	mg/L	-	25	60	≤750	EN0048	Bangkok
Oil & Grease	mg/L	-	3	<3	≤10	EN0045	Bangkok
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	8.0	5.5-9	EN0020	Bangkok
Temperature *	°C	-	-	31.3	≤45	EN0097	Bangkok
Total Dissolved Solids at 180°C	mg/L	-	5	2440	≤3000	EN0100	Bangkok
Total Suspended Solids	mg/L	-	5	8	≤200	EN0102	Bangkok

Guideline : Industrial Land on Criteria of wastewater discharging to central wastewater treatment plant

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

Key :
- 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/IEC17025

Signatories

Nanthawadee Somboon	Kanokkorn Anek
Specialist 2	Assistant General Manager
1-204-c-0010	1-204-e-0004

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ALS Laboratory Group (Thailand) Co.,Ltd. Bangkok Life Sciences

Analysis Report

TESTING No.0009

Work Order	BK2537454	Date Received	Nov 12, 2025
Client	WHA Utilities and Power Public Company Limited 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported	Nov 18, 2025
		Report Number	BK2537454-AA
Project	WHA SIL		
Project Location	Gulf NPM Co.,Ltd._131_WWT_WHASIL_004_2562		

Sample Number	BK2537454-001
Sampled Date	Nov 12, 2025 10:20 AM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	Gulf NPM Co.,Ltd.
Contract ID	WWT_WHASIL_004_2562
Plot	131
Date of Analysis	Nov 13, 2025
Sampled by	Panupong Saenrot (1-204-c-0204)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H_2SO_4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, some odour, some solids, no turbidity

Brief Method Summaries

The methods in the analysis report are short format, refer to full test methods in accordance with the ISO/IEC 17025 certificate no. specified in the analysis report.

Method	Testing Lab	Method Descriptions
EN0020	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0048	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0045	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0097	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B
EN0100	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C
EN0102	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

—— END OF REPORT ——

Signatories

Nanthawadee Somboon	Kanokkorn Anek
Specialist 2	Assistant General Manager
1-204-c-0010	1-204-e-0004

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.

ALS Laboratory Group (Thailand) Co.,Ltd. Bangkok Life Sciences

Analysis Report

TESTING No.0009

Work Order	BK2537456	Date Received	Nov 10, 2025
Client	WHA Utilities and Power Public Company Limited 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported	Nov 17, 2025
		Report Number	BK2537456-AA (1)
Project	WHA SIL		
Project Location	HOWA PACKAGING (THAILAND) CO., LTD._97_WWT_WHASIL_009_2568		

Sample Number	BK2537456-001
Sampled Date	Nov 10, 2025 09:30 AM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	HOWA PACKAGING (THAILAND) CO., LTD.
Contract ID	WWT_WHASIL_009_2568
Plot	97
Date of Analysis	Nov 11, 2025
Sampled by	Panupong Saenrot (1-204-c-0204)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H_2SO_4, 1x Oil & Grease, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, some odour, some solids, no turbidity

Analytical Results

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	2.4	≤500	EN0044	Bangkok
COD	mg/L	-	25	27	≤750	EN0048	Bangkok
Oil & Grease	mg/L	-	3	<3	≤10	EN0045	Bangkok
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.8	5.5-9	EN0020	Bangkok
Temperature *	°C	-	-	29.8	≤45	EN0097	Bangkok
Total Suspended Solids	mg/L	-	5	11	≤200	EN0102	Bangkok

Guideline : Industrial Land on Criteria of wastewater discharging to central wastewater treatment plant

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

Key :
- 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/IEC17025

Signatories

Sitluk Bunnak	Kanokkorn Anek
Section Head	Assistant General Manager
1-204-c-0013	1-204-e-0004

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.

ALS Laboratory Group (Thailand) Co.,Ltd. Bangkok Life Sciences

Analysis Report

TESTING No.0009

Work Order	BK2537456	Date Received	Nov 10, 2025
Client	WHA Utilities and Power Public Company Limited 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported	Nov 17, 2025
		Report Number	BK2537456-AA (1)
Project	WHA SIL		
Project Location	HOWA PACKAGING (THAILAND) CO., LTD._97_WWT_WHASIL_009_2568		

Sample Number	BK2537456-001
Sampled Date	Nov 10, 2025 09:30 AM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	HOWA PACKAGING (THAILAND) CO., LTD.
Contract ID	WWT_WHASIL_009_2568
Plot	97
Date of Analysis	Nov 11, 2025
Sampled by	Panupong Saenrot (1-204-c-0204)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H_2SO_4, 1x Oil & Grease, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, some odour, some solids, no turbidity

Brief Method Summaries

The methods in the analysis report are short format, refer to full test methods in accordance with the ISO/IEC 17025 certificate no. specified in the analysis report.

Method	Testing Lab	Method Descriptions
EN0020	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0048	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0045	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0097	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B
EN0102	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

—— END OF REPORT ——

Signatories

Sitluk Bunnak	Kanokkorn Anek
Section Head	Assistant General Manager
1-204-c-0013	1-204-e-0004

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ALS Laboratory Group (Thailand) Co.,Ltd. Bangkok Life Sciences

Analysis Report

TESTING No.0009

Work Order	BK2537457	Date Received	Nov 04, 2025
Client	WHA Utilities and Power Public Company Limited, 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported	Nov 11, 2025
Project	WHA SIL	Report Number	BK2537457-AA
Project Location	Hygerie (Thailand) Co.,Ltd. (1st)_140_WWT_WHASIL_032_2568		

Sample Number	BK2537457-001
Sampled Date	Nov 04, 2025 01:50 PM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	Hygerie (Thailand) Co.,Ltd. (1st)
Contract ID	WWT_WHASIL_032_2568
Plot	140
Date of Analysis	Nov 05, 2025
Sampled by	Panupong Saenot (1-204-c-0204)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H_2SO_4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	colourless, some odour, some solids, no turbidity

Analytical Results

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	3.9	≤500	EN0044	Bangkok
COD	mg/L	-	25	28	≤750	EN0046	Bangkok
Oil & Grease	mg/L	-	3	3	≤10	EN0048	Bangkok
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	8.1	5.5-9	EN0020	Bangkok
Temperature *	°C	-	-	32.2	≤45	EN0097	Bangkok
Total Dissolved Solids at 180°C	mg/L	-	5	988	≤3000	EN0100	Bangkok
Total Suspended Solids	mg/L	-	5	8	≤200	EN0102	Bangkok

Guideline : Industrial Land on Criteria of wastewater discharging to central wastewater treatment plant

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

Key :
- 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/IEC17025

Signatories

Siriluk Bunnak, Section Head, 1-204-c-0013

Kanokkorn Anek, Assistant General Manager, 1-204-e-0004

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Analysis Report

TESTING No.0009

Work Order	BK2537457	Date Received	Nov 04, 2025
Client	WHA Utilities and Power Public Company Limited, 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported	Nov 11, 2025
Project	WHA SIL	Report Number	BK2537457-AA
Project Location	Hygerie (Thailand) Co.,Ltd. (1st)_140_WWT_WHASIL_032_2568		

Sample Number	BK2537457-001
Sampled Date	Nov 04, 2025 01:50 PM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	Hygerie (Thailand) Co.,Ltd. (1st)
Contract ID	WWT_WHASIL_032_2568
Plot	140
Date of Analysis	Nov 05, 2025
Sampled by	Panupong Saenot (1-204-c-0204)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H_2SO_4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	colourless, some odour, some solids, no turbidity

Brief Method Summaries

The methods in the analysis report are short format, refer to full test methods in accordance with the ISO/IEC 17025 certificate no. specified in the analysis report.

Method	Testing Lab	Method Descriptions
EN0020	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0097	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B
EN0100	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C
EN0102	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

——— END OF REPORT ———

Signatories

Siriluk Bunnak, Section Head, 1-204-c-0013

Kanokkorn Anek, Assistant General Manager, 1-204-e-0004

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Analysis Report

TESTING No.0009

Work Order	BK2537458	Date Received	Nov 10, 2025
Client	WHA Utilities and Power Public Company Limited, 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported	Nov 17, 2025
Project	WHA SIL	Report Number	BK2537458-AA (1)
Project Location	Hygerie (Thailand) Co.,Ltd. (2nd)_140_WWT_WHASIL_032_2568		

Sample Number	BK2537458-001
Sampled Date	Nov 10, 2025 09:10 AM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	Hygerie (Thailand) Co.,Ltd. (2nd)
Contract ID	WWT_WHASIL_032_2568
Plot	140
Date of Analysis	Nov 11, 2025
Sampled by	Panupong Saenot (1-204-c-0204)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H_2SO_4, 1x Oil & Grease, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	colourless, some odour, some solids, no turbidity

Analytical Results

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	2.3	≤500	EN0044	Bangkok
COD	mg/L	-	25	27	≤750	EN0046	Bangkok
Oil & Grease	mg/L	-	3	<3	≤10	EN0048	Bangkok
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	8.7	5.5-9	EN0020	Bangkok
Temperature *	°C	-	-	32.5	≤45	EN0097	Bangkok
Total Dissolved Solids at 180°C	mg/L	-	5	1102	≤3000	EN0100	Bangkok
Total Suspended Solids	mg/L	-	5	<5	≤200	EN0102	Bangkok

Guideline : Industrial Land on Criteria of wastewater discharging to central wastewater treatment plant

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

Key :
- 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/IEC17025

Signatories

Siriluk Bunnak, Section Head, 1-204-c-0013

Kanokkorn Anek, Assistant General Manager, 1-204-e-0004

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Analysis Report

TESTING No.0009

Work Order	BK2537458	Date Received	Nov 10, 2025
Client	WHA Utilities and Power Public Company Limited, 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported	Nov 17, 2025
Project	WHA SIL	Report Number	BK2537458-AA (1)
Project Location	Hygerie (Thailand) Co.,Ltd. (2nd)_140_WWT_WHASIL_032_2568		

Sample Number	BK2537458-001
Sampled Date	Nov 10, 2025 09:10 AM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	Hygerie (Thailand) Co.,Ltd. (2nd)
Contract ID	WWT_WHASIL_032_2568
Plot	140
Date of Analysis	Nov 11, 2025
Sampled by	Panupong Saenot (1-204-c-0204)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H_2SO_4, 1x Oil & Grease, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	colourless, some odour, some solids, no turbidity

Brief Method Summaries

The methods in the analysis report are short format, refer to full test methods in accordance with the ISO/IEC 17025 certificate no. specified in the analysis report.

Method	Testing Lab	Method Descriptions
EN0020	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0097	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B
EN0100	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C
EN0102	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

——— END OF REPORT ———

Signatories

Siriluk Bunnak, Section Head, 1-204-c-0013

Kanokkorn Anek, Assistant General Manager, 1-204-e-0004

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Analysis Report

TESTING No.0009

Work Order	BK2537459	Date Received	Nov 10, 2025
Client	WHA Utilities and Power Public Company Limited, 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported	Nov 18, 2025
Project	WHA SIL	Report Number	BK2537459-AA
Project Location	IDEC Asia (Thailand) Co.,Ltd_64_WWT_WHASIL_042_2568		

Sample Number	BK2537459-001
Sampled Date	Nov 10, 2025 10:20 AM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	IDEC Asia (Thailand) Co.,Ltd
Contract ID	WWT_WHASIL_042_2568
Plot	64
Date of Analysis	Nov 11, 2025
Sampled by	Panupong Saenot (1-204-c-0204)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H_2SO_4, 1x Oil & Grease, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, strong odour, some solids, highly turbid

Analytical Results

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	73.0	≤500	EN0044	Bangkok
COD	mg/L	-	25	160	≤750	EN0046	Bangkok
Oil & Grease	mg/L	-	3	4	≤10	EN0048	Bangkok
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.8	5.5-9	EN0020	Bangkok
Temperature *	°C	-	-	30.1	≤45	EN0097	Bangkok
Total Suspended Solids	mg/L	-	5	29	≤200	EN0102	Bangkok

Guideline : Industrial Land on Criteria of wastewater discharging to central wastewater treatment plant

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

Key :
- 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/IEC17025

Signatories

Siriluk Bunnak, Section Head, 1-204-c-0013

Kanokkorn Anek, Assistant General Manager, 1-204-e-0004

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Analysis Report

TESTING No.0009

Work Order	BK2537459	Date Received	Nov 10, 2025
Client	WHA Utilities and Power Public Company Limited, 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported	Nov 18, 2025
Project	WHA SIL	Report Number	BK2537459-AA
Project Location	IDEC Asia (Thailand) Co.,Ltd_64_WWT_WHASIL_042_2568		

Sample Number	BK2537459-001
Sampled Date	Nov 10, 2025 10:20 AM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	IDEC Asia (Thailand) Co.,Ltd
Contract ID	WWT_WHASIL_042_2568
Plot	64
Date of Analysis	Nov 11, 2025
Sampled by	Panupong Saenot (1-204-c-0204)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H_2SO_4, 1x Oil & Grease, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, strong odour, some solids, highly turbid

Brief Method Summaries

The methods in the analysis report are short format, refer to full test methods in accordance with the ISO/IEC 17025 certificate no. specified in the analysis report.

Method	Testing Lab	Method Descriptions
EN0020	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0097	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B
EN0102	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

——— END OF REPORT ———

Signatories

Siriluk Bunnak, Section Head, 1-204-c-0013

Kanokkorn Anek, Assistant General Manager, 1-204-e-0004

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

Analysis Report

TESTING No.0009

Work Order	BK2537460	Date Received	Nov 07, 2025
Client	WHA Utilities and Power Public Company Limited, 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported	Nov 18, 2025
Project	WHA SIL	Report Number	BK2537460-AA (1)
Project Location	JCY HDD Technology Co.,Ltd._43,44_WWT_WHASIL_009_2564		

Sample Number	BK2537460-001
Sampled Date	Nov 07, 2025 10:20 AM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	JCY HDD Technology Co.,Ltd.
Contract ID	WWT_WHASIL_009_2564
Plot	43,44
Date of Analysis	Nov 08, 2025
Sampled by	Panupong Saenot (1-204-c-0204)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H_2SO_4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, some odour, some solids, no turbidity

Analytical Results

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	8.4	≤500	EN0044	Bangkok
COD	mg/L	-	25	43	≤750	EN0046	Bangkok
Oil & Grease	mg/L	-	3	<3	≤10	EN0048	Bangkok
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.6	5.5-9	EN0020	Bangkok
Temperature *	°C	-	-	29.7	≤45	EN0097	Bangkok
Total Suspended Solids	mg/L	-	5	<5	≤200	EN0102	Bangkok

Guideline : Industrial Land on Criteria of wastewater discharging to central wastewater treatment plant

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

Key :
- 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/IEC17025

Signatories

Siriluk Bunnak, Section Head, 1-204-c-0013

Kanokkorn Anek, Assistant General Manager, 1-204-e-0004

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

Analysis Report

TESTING No.0009

Work Order	BK2537460	Date Received	Nov 07, 2025
Client	WHA Utilities and Power Public Company Limited, 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported	Nov 18, 2025
Project	WHA SIL	Report Number	BK2537460-AA (1)
Project Location	JCY HDD Technology Co.,Ltd._43,44_WWT_WHASIL_009_2564		

Sample Number	BK2537460-001
Sampled Date	Nov 07, 2025 10:20 AM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	JCY HDD Technology Co.,Ltd.
Contract ID	WWT_WHASIL_009_2564
Plot	43,44
Date of Analysis	Nov 08, 2025
Sampled by	Panupong Saenot (1-204-c-0204)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H_2SO_4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, some odour, some solids, no turbidity

Brief Method Summaries

The methods in the analysis report are short format, refer to full test methods in accordance with the ISO/IEC 17025 certificate no. specified in the analysis report.

Method	Testing Lab	Method Descriptions
EN0020	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0097	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B
EN0102	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

——— END OF REPORT ———

Signatories

Siriluk Bunnak, Section Head, 1-204-c-0013

Kanokkorn Anek, Assistant General Manager, 1-204-e-0004

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

Analysis Report

TESTING No.0009

Work Order	BK2537461	Date Received	Nov 06, 2025
Client	WHA Utilities and Power Public Company Limited, 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported	Nov 18, 2025
Project	WHA SIL	Report Number	BK2537461-AA (1)
Project Location	Johnan F. Tech (Thailand) Co.,Ltd._162/1_WWT_WHASIL_004_2568		

Sample Number	BK2537461-001
Sampled Date	Nov 06, 2025 09:30 AM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	Johnan F. Tech (Thailand) Co.,Ltd.
Contract ID	WWT_WHASIL_004_2568
Plot	162/1
Date of Analysis	Nov 08, 2025
Sampled by	Panupong Saenot (1-204-c-0204)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H_2SO_4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, strong odour, some solids, highly turbid

Analytical Results

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	75.5	≤500	EN0044	Bangkok
COD	mg/L	-	25	146	≤750	EN0046	Bangkok
Oil & Grease	mg/L	-	3	3	≤10	EN0048	Bangkok
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.7	5.5-9	EN0020	Bangkok
Temperature *	°C	-	-	28.9	≤45	EN0097	Bangkok
Total Suspended Solids	mg/L	-	5	25	≤200	EN0102	Bangkok

Guideline : Industrial Land on Criteria of wastewater discharging to central wastewater treatment plant

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

Key :
- 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/IEC17025

Signatories

Siriluk Bunnak, Section Head, 1-204-c-0013

Kanokkorn Anek, Assistant General Manager, 1-204-e-0004

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

Analysis Report

TESTING No.0009

Work Order	BK2537481	Date Received	Nov 05, 2025
Client	WHA Utilities and Power Public Company Limited 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported	Nov 18, 2025
Project	WHA SIL	Report Number	BK2537481-AA (1)
Project Location	Johnan F. Tech (Thailand) Co.,Ltd._1621_WWT_WHASIL_034_2568		

Sample Number	BK2537481-001
Sampled Date	Nov 05, 2025 09:30 AM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	Johnan F. Tech (Thailand) Co.,Ltd.
Contract ID	WWT_WHASIL_034_2568
Plot	1621
Date of Analysis	Nov 06, 2025
Sampled by	Panupong Saenot (1-204-c-0204)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, strong odour, some solids, highly turbid

Brief Method Summaries

The methods in the analysis report are short format, refer to full test methods in accordance with the ISO/IEC 17025 certificate no. specified in the analysis report.

Method	Testing Lab	Method Descriptions
EN0020	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0048	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0046	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0097	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B
EN0102	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

—— END OF REPORT ——

Signatories

Sitthik Bunnak, Section Head, 1-204-c-0013

Kanokkorn Anek, Assistant General Manager, 1-204-e-0004

Analysis Report

TESTING No.0009

Work Order	BK2537482	Date Received	Nov 05, 2025
Client	WHA Utilities and Power Public Company Limited 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported	Nov 18, 2025
Project	WHA SIL	Report Number	BK2537482-AA (1)
Project Location	Knauf Gypsum (Thailand) Co.,Ltd._146_WWT_WHASIL_010_2568		

Sample Number	BK2537482-001
Sampled Date	Nov 05, 2025 10:10 AM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	Knauf Gypsum (Thailand) Co.,Ltd.
Contract ID	WWT_WHASIL_010_2568
Plot	146
Date of Analysis	Nov 06, 2025
Sampled by	Panupong Saenot (1-204-c-0204)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, strong odour, some solids, turbid

Analytical Results

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	3.1	≤500	EN0044	Bangkok
COD	mg/L	-	25	<25	≤750	EN0048	Bangkok
Oil & Grease	mg/L	-	3	<3	≤10	EN0046	Bangkok
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.6	5.5-9	EN0020	Bangkok
Temperature *	°C	-	-	32.9	≤45	EN0097	Bangkok
Total Suspended Solids	mg/L	-	5	17	≤200	EN0102	Bangkok

Guideline : Industrial Land on Criteria of wastewater discharging to central wastewater treatment plant

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

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

Signatories

Sitthik Bunnak, Section Head, 1-204-c-0013

Kanokkorn Anek, Assistant General Manager, 1-204-e-0004

Analysis Report

TESTING No.0009

Work Order	BK2537482	Date Received	Nov 05, 2025
Client	WHA Utilities and Power Public Company Limited 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported	Nov 18, 2025
Project	WHA SIL	Report Number	BK2537482-AA (1)
Project Location	Knauf Gypsum (Thailand) Co.,Ltd._146_WWT_WHASIL_010_2568		

Sample Number	BK2537482-001
Sampled Date	Nov 05, 2025 10:10 AM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	Knauf Gypsum (Thailand) Co.,Ltd.
Contract ID	WWT_WHASIL_010_2568
Plot	146
Date of Analysis	Nov 06, 2025
Sampled by	Panupong Saenot (1-204-c-0204)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, strong odour, some solids, turbid

Brief Method Summaries

The methods in the analysis report are short format, refer to full test methods in accordance with the ISO/IEC 17025 certificate no. specified in the analysis report.

Method	Testing Lab	Method Descriptions
EN0020	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0048	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0046	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0097	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B
EN0102	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

—— END OF REPORT ——

Signatories

Sitthik Bunnak, Section Head, 1-204-c-0013

Kanokkorn Anek, Assistant General Manager, 1-204-e-0004

Analysis Report

TESTING No.0009

Work Order	BK2537483	Date Received	Nov 10, 2025
Client	WHA Utilities and Power Public Company Limited 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported	Nov 17, 2025
Project	WHA SIL	Report Number	BK2537483-AA
Project Location	Kurano (Thailand) CO.,LTD._561_WWT_WHASIL_013_2567		

Sample Number	BK2537483-001
Sampled Date	Nov 10, 2025 09:40 AM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	Kurano (Thailand) CO.,LTD.
Contract ID	WWT_WHASIL_013_2567
Plot	56/1
Date of Analysis	Nov 11, 2025
Sampled by	Panupong Saenot (1-204-c-0204)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, strong odour, lots of solids, highly turbid

Analytical Results

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	89.9	≤500	EN0044	Bangkok
COD	mg/L	-	25	214	≤750	EN0048	Bangkok
Oil & Grease	mg/L	-	3	6	≤10	EN0046	Bangkok
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.1	5.5-9	EN0020	Bangkok
Temperature *	°C	-	-	30.1	≤45	EN0097	Bangkok
Total Suspended Solids	mg/L	-	5	54	≤200	EN0102	Bangkok

Guideline : Industrial Land on Criteria of wastewater discharging to central wastewater treatment plant

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

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

Signatories

Sitthik Bunnak, Section Head, 1-204-c-0013

Kanokkorn Anek, Assistant General Manager, 1-204-e-0004

Analysis Report

TESTING No.0009

Work Order	BK2537483	Date Received	Nov 10, 2025
Client	WHA Utilities and Power Public Company Limited 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported	Nov 17, 2025
Project	WHA SIL	Report Number	BK2537483-AA
Project Location	Kurano (Thailand) CO.,LTD._561_WWT_WHASIL_013_2567		

Sample Number	BK2537483-001
Sampled Date	Nov 10, 2025 09:40 AM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	Kurano (Thailand) CO.,LTD.
Contract ID	WWT_WHASIL_013_2567
Plot	56/1
Date of Analysis	Nov 11, 2025
Sampled by	Panupong Saenot (1-204-c-0204)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, strong odour, lots of solids, highly turbid

Brief Method Summaries

The methods in the analysis report are short format, refer to full test methods in accordance with the ISO/IEC 17025 certificate no. specified in the analysis report.

Method	Testing Lab	Method Descriptions
EN0020	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0048	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0046	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0097	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B
EN0102	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

—— END OF REPORT ——

Signatories

Sitthik Bunnak, Section Head, 1-204-c-0013

Kanokkorn Anek, Assistant General Manager, 1-204-e-0004

Analysis Report

TESTING No.0009

Work Order	BK2537484	Date Received	Nov 12, 2025
Client	WHA Utilities and Power Public Company Limited 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported	Nov 18, 2025
Project	WHA SIL	Report Number	BK2537484-AA
Project Location	Maxion Wheels (Thailand) Co.,Ltd._18,82,40_WWT_WHASIL_018_2564		

Sample Number	BK2537484-001
Sampled Date	Nov 12, 2025 01:30 PM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	Maxion Wheels (Thailand) Co.,Ltd.
Contract ID	WWT_WHASIL_018_2564
Plot	18,82,40
Date of Analysis	Nov 13, 2025
Sampled by	Panupong Saenot (1-204-c-0204)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, some odour, some solids, turbid

Analytical Results

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	15.8	≤500	EN0044	Bangkok
COD	mg/L	-	25	115	≤750	EN0048	Bangkok
Oil & Grease	mg/L	-	3	8	≤10	EN0046	Bangkok
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	8.6	5.5-9	EN0020	Bangkok
Temperature *	°C	-	-	33.1	≤45	EN0097	Bangkok
Total Suspended Solids	mg/L	-	5	115	≤200	EN0102	Bangkok

Guideline : Industrial Land on Criteria of wastewater discharging to central wastewater treatment plant

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

Key :
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Signatories

Nanthawadee Somboon, Specialist 2, 1-204-c-0010

Kanokkorn Anek, Assistant General Manager, 1-204-e-0004

Analysis Report

TESTING No.0009

Work Order	BK2537484	Date Received	Nov 12, 2025
Client	WHA Utilities and Power Public Company Limited 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported	Nov 18, 2025
Project	WHA SIL	Report Number	BK2537484-AA
Project Location	Maxion Wheels (Thailand) Co.,Ltd._18,82,40_WWT_WHASIL_018_2564		

Sample Number	BK2537484-001
Sampled Date	Nov 12, 2025 01:30 PM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	Maxion Wheels (Thailand) Co.,Ltd.
Contract ID	WWT_WHASIL_018_2564
Plot	18,82,40
Date of Analysis	Nov 13, 2025
Sampled by	Panupong Saenot (1-204-c-0204)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, some odour, some solids, turbid

Brief Method Summaries

The methods in the analysis report are short format, refer to full test methods in accordance with the ISO/IEC 17025 certificate no. specified in the analysis report.

Method	Testing Lab	Method Descriptions
EN0020	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0048	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0046	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0097	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B
EN0102	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

—— END OF REPORT ——

Signatories

Nanthawadee Somboon, Specialist 2, 1-204-c-0010

Kanokkorn Anek, Assistant General Manager, 1-204-e-0004

Analysis Report

TESTING No.0009

Work Order	BK2537485	Date Received	Nov 10, 2025
Client	WHA Utilities and Power Public Company Limited 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported	Nov 17, 2025
Project	WHA SIL	Report Number	BK2537485-AA
Project Location	Michelin ROH Co.,Ltd._85_WWT_WHASIL_011_2564		

Sample Number	BK2537485-001
Sampled Date	Nov 10, 2025 10:10 AM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	Michelin ROH Co.,Ltd.
Contract ID	WWT_WHASIL_011_2564
Plot	85
Date of Analysis	Nov 11, 2025
Sampled by	Panupong Saenot (1-204-c-0204)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, some odour, lots of solids, highly turbid

Analytical Results

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	15.1	≤500	EN0044	Bangkok
COD	mg/L	-	25	117	≤750	EN0048	Bangkok
Oil & Grease	mg/L	-	3	<3	≤10	EN0046	Bangkok
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.8	5.5-9	EN0020	Bangkok
Temperature *	°C	-	-	30.1	≤45	EN0097	Bangkok
Total Suspended Solids	mg/L	-	5	40	≤200	EN0102	Bangkok

Guideline : Industrial Land on Criteria of wastewater discharging to central wastewater treatment plant

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

Key :
- 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

Signatories

Sitthik Bunnak, Section Head, 1-204-c-0013

Kanokkorn Anek, Assistant General Manager, 1-204-e-0004

Analysis Report

TESTING No.0009

Work Order	BK2537485	Date Received	Nov 10, 2025
Client	WHA Utilities and Power Public Company Limited 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported	Nov 17, 2025
Project	WHA SIL	Report Number	BK2537485-AA
Project Location	Michelin ROH Co.,Ltd._85_WWT_WHASIL_011_2564		

Sample Number	BK2537485-001
Sampled Date	Nov 10, 2025 10:10 AM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	Michelin ROH Co.,Ltd.
Contract ID	WWT_WHASIL_011_2564
Plot	85
Date of Analysis	Nov 11, 2025
Sampled by	Panupong Saenot (1-204-c-0204)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, some odour, lots of solids, highly turbid

Brief Method Summaries

The methods in the analysis report are short format, refer to full test methods in accordance with the ISO/IEC 17025 certificate no. specified in the analysis report.

Method	Testing Lab	Method Descriptions
EN0020	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0048	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0046	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0097	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B
EN0102	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

—— END OF REPORT ——

Signatories

Sitthik Bunnak, Section Head, 1-204-c-0013

Kanokkorn Anek, Assistant General Manager, 1-204-e-0004

Analysis Report

TESTING No.0009

Work Order	BK2537466	Date Received :	Nov 05, 2025
Client	WHA Utilities and Power Public Company Limited 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported :	Nov 18, 2025
		Report Number :	BK2537466-AA (1)
Project	WHA SIL		
Project Location	Michelin Siam Co.,Ltd._17_WWT_WHASIL_002_2560		

Sample Number	BK2537466-001
Sampled Date	Nov 05, 2025 11:35 AM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	Michelin Siam Co.,Ltd.
Contract ID	WWT_WHASIL_002_2560
Plot	17
Date of Analysis	Nov 06, 2025
Sampled by	Panupong Saenol (1-204-c-0204)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H_2SO_4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, strong odour, lots of solids, turbid

Analytical Results

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	16.8	≤500	EN0044	Bangkok
COD	mg/L	-	25	56	≤750	EN0046	Bangkok
Oil & Grease	mg/L	-	3	<3	≤10	EN0048	Bangkok
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.6	5.5-9	EN0020	Bangkok
Temperature *	°C	-	-	29.9	≤40	EN0097	Bangkok
Total Suspended Solids	mg/L	-	5	22	≤200	EN0102	Bangkok

Guideline : Industrial Land on Criteria of wastewater discharging to central wastewater treatment plant

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

Key :
- 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

Signatories

Sitthikorn Bunnak Section Head 1-204-c-0013	Kanokkorn Anek Assistant General Manager 1-204-e-0004

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Analysis Report

TESTING No.0009

Work Order	BK2537466	Date Received :	Nov 05, 2025
Client	WHA Utilities and Power Public Company Limited 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported :	Nov 18, 2025
		Report Number :	BK2537466-AA (1)
Project	WHA SIL		
Project Location	Michelin Siam Co.,Ltd._17_WWT_WHASIL_002_2560		

Sample Number	BK2537466-001
Sampled Date	Nov 05, 2025 11:35 AM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	Michelin Siam Co.,Ltd.
Contract ID	WWT_WHASIL_002_2560
Plot	17
Date of Analysis	Nov 06, 2025
Sampled by	Panupong Saenol (1-204-c-0204)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H_2SO_4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, strong odour, lots of solids, turbid

Brief Method Summaries

The methods in the analysis report are short format, refer to full test methods in accordance with the ISO/IEC 17025 certificate no. specified in the analysis report.

Method	Testing Lab	Method Descriptions
EN0020	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0097	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B
EN0102	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

——— END OF REPORT ———

Signatories

Sitthikorn Bunnak Section Head 1-204-c-0013	Kanokkorn Anek Assistant General Manager 1-204-e-0004

[illegible]

Analysis Report

TESTING No.0009

Work Order	BK2537467	Date Received :	Nov 05, 2025
Client	WHA Utilities and Power Public Company Limited 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported :	Nov 18, 2025
		Report Number :	BK2537467-AA (1)
Project	WHA SIL		
Project Location	Michelin Siam Co.,Ltd. (1st)_5,83,92_WWT_WHASIL_013_2564		

Sample Number	BK2537467-001
Sampled Date	Nov 05, 2025 11:30 AM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	Michelin Siam Co.,Ltd. (1st)
Contract ID	WWT_WHASIL_013_2564
Plot	5,83,92
Date of Analysis	Nov 06, 2025
Sampled by	Panupong Saenol (1-204-c-0204)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H_2SO_4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, strong odour, lots of solids, turbid

Analytical Results

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	8.8	≤500	EN0044	Bangkok
COD	mg/L	-	25	66	≤750	EN0046	Bangkok
Oil & Grease	mg/L	-	3	3	≤10	EN0048	Bangkok
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	8.1	5.5-9	EN0020	Bangkok
Temperature *	°C	-	-	33.8	≤40	EN0097	Bangkok
Total Dissolved Solids at 180°C	mg/L	-	5	272	≤3000	EN0100	Bangkok
Total Suspended Solids	mg/L	-	5	14	≤200	EN0102	Bangkok

Guideline : Industrial Land on Criteria of wastewater discharging to central wastewater treatment plant

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

Key :
- 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

Signatories

Sitthikorn Bunnak Section Head 1-204-c-0013	Kanokkorn Anek Assistant General Manager 1-204-e-0004

[illegible]

Analysis Report

TESTING No.0009

Work Order	BK2537467	Date Received :	Nov 05, 2025
Client	WHA Utilities and Power Public Company Limited 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported :	Nov 18, 2025
		Report Number :	BK2537467-AA (1)
Project	WHA SIL		
Project Location	Michelin Siam Co.,Ltd. (1st)_5,83,92_WWT_WHASIL_013_2564		

Sample Number	BK2537467-001
Sampled Date	Nov 05, 2025 11:30 AM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	Michelin Siam Co.,Ltd. (1st)
Contract ID	WWT_WHASIL_013_2564
Plot	5,83,92
Date of Analysis	Nov 06, 2025
Sampled by	Panupong Saenol (1-204-c-0204)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H_2SO_4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, strong odour, lots of solids, turbid

Brief Method Summaries

The methods in the analysis report are short format, refer to full test methods in accordance with the ISO/IEC 17025 certificate no. specified in the analysis report.

Method	Testing Lab	Method Descriptions
EN0020	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0097	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B
EN0100	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C
EN0102	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

——— END OF REPORT ———

Signatories

Sitthikorn Bunnak Section Head 1-204-c-0013	Kanokkorn Anek Assistant General Manager 1-204-e-0004

[illegible]

Analysis Report

TESTING No.0009

Work Order	BK2537468	Date Received :	Nov 12, 2025
Client	WHA Utilities and Power Public Company Limited 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported :	Nov 18, 2025
		Report Number :	BK2537468-AA
Project	WHA SIL		
Project Location	Miyago Industry (Thailand) Co.,Ltd._138_WWT_WHASIL_003_2566		

Sample Number	BK2537468-001
Sampled Date	Nov 12, 2025 09:50 AM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	Miyago Industry (Thailand) Co.,Ltd.
Contract ID	WWT_WHASIL_003_2566
Plot	138
Date of Analysis	Nov 13, 2025
Sampled by	Panupong Saenol (1-204-c-0204)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H_2SO_4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, strong odour, some solids, highly turbid

Analytical Results

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	17.1	≤500	EN0044	Bangkok
COD	mg/L	-	25	104	≤750	EN0046	Bangkok
Oil & Grease	mg/L	-	3	<3	≤10	EN0048	Bangkok
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.9	5.5-9	EN0020	Bangkok
Temperature *	°C	-	-	30.4	≤40	EN0097	Bangkok
Total Suspended Solids	mg/L	-	5	24	≤200	EN0102	Bangkok

Guideline : Industrial Land on Criteria of wastewater discharging to central wastewater treatment plant

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

Key :
- 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

Signatories

Nanthawadee Somboon Specialist 2 1-204-c-0010	Kanokkorn Anek Assistant General Manager 1-204-e-0004

[illegible]

Analysis Report

TESTING No.0009

Work Order	BK2537468	Date Received :	Nov 12, 2025
Client	WHA Utilities and Power Public Company Limited 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported :	Nov 18, 2025
		Report Number :	BK2537468-AA
Project	WHA SIL		
Project Location	Miyago Industry (Thailand) Co.,Ltd._138_WWT_WHASIL_003_2566		

Sample Number	BK2537468-001
Sampled Date	Nov 12, 2025 09:50 AM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	Miyago Industry (Thailand) Co.,Ltd.
Contract ID	WWT_WHASIL_003_2566
Plot	138
Date of Analysis	Nov 13, 2025
Sampled by	Panupong Saenol (1-204-c-0204)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H_2SO_4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, strong odour, some solids, highly turbid

Brief Method Summaries

The methods in the analysis report are short format, refer to full test methods in accordance with the ISO/IEC 17025 certificate no. specified in the analysis report.

Method	Testing Lab	Method Descriptions
EN0020	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0097	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B
EN0102	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

——— END OF REPORT ———

Signatories

Nanthawadee Somboon Specialist 2 1-204-c-0010	Kanokkorn Anek Assistant General Manager 1-204-e-0004

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Analysis Report

TESTING No.0009

Work Order	BK2537471	Date Received :	Nov 06, 2025
Client	WHA Utilities and Power Public Company Limited 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported :	Nov 18, 2025
		Report Number :	BK2537471-AA (1)
Project	WHA SIL		
Project Location	Muto (Thailand) Co.,Ltd._160, 161, 162, 166, 168_WWT_WHASIL_048_2566		

Sample Number	BK2537471-001
Sampled Date	Nov 06, 2025 09:35 AM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	Muto (Thailand) Co.,Ltd.
Contract ID	WWT_WHASIL_048_2566
Plot	160, 161, 162, 166, 168
Date of Analysis	Nov 06, 2025
Sampled by	Panupong Saenol (1-204-c-0204)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H_2SO_4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, strong odour, some solids, highly turbid

Analytical Results

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	20.0	≤500	EN0044	Bangkok
COD	mg/L	-	25	114	≤750	EN0046	Bangkok
Oil & Grease	mg/L	-	3	<3	≤10	EN0048	Bangkok
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	8.2	5.5-9	EN0020	Bangkok
Temperature *	°C	-	-	30.6	≤40	EN0097	Bangkok
Total Suspended Solids	mg/L	-	5	25	≤200	EN0102	Bangkok

Guideline : Industrial Land on Criteria of wastewater discharging to central wastewater treatment plant

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

Key :
- 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

Signatories

Sitthikorn Bunnak Section Head 1-204-c-0013	Kanokkorn Anek Assistant General Manager 1-204-e-0004

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Analysis Report

TESTING No.0009

Work Order	BK2537471	Date Received :	Nov 06, 2025
Client	WHA Utilities and Power Public Company Limited 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported :	Nov 18, 2025
		Report Number :	BK2537471-AA (1)
Project	WHA SIL		
Project Location	Muto (Thailand) Co.,Ltd._160, 161, 162, 166, 168_WWT_WHASIL_048_2566		

Sample Number	BK2537471-001
Sampled Date	Nov 06, 2025 09:35 AM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	Muto (Thailand) Co.,Ltd.
Contract ID	WWT_WHASIL_048_2566
Plot	160, 161, 162, 166, 168
Date of Analysis	Nov 06, 2025
Sampled by	Panupong Saenol (1-204-c-0204)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H_2SO_4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, strong odour, some solids, highly turbid

Brief Method Summaries

The methods in the analysis report are short format, refer to full test methods in accordance with the ISO/IEC 17025 certificate no. specified in the analysis report.

Method	Testing Lab	Method Descriptions
EN0020	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0097	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B
EN0102	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

——— END OF REPORT ———

Signatories

Sitthikorn Bunnak Section Head 1-204-c-0013	Kanokkorn Anek Assistant General Manager 1-204-e-0004

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Analysis Report

TESTING No.0009

Work Order	BK2537472	Date Received :	Nov 03, 2025
Client	WHA Utilities and Power Public Company Limited 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported :	Nov 10, 2025
		Report Number :	BK2537472-AA
Project	WHA SIL		
Project Location	Newsplastic Industries Co., Ltd._8_WWT_WHASIL_005_2565		

Sample Number	BK2537472-001
Sampled Date	Nov 03, 2025 10:35 AM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	Newsplastic Industries Co., Ltd.
Contract ID	WWT_WHASIL_005_2565
Plot	8
Date of Analysis	Nov 04, 2025
Sampled by	Teerawat Pluangsuk (1-204-c-0061)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H_2SO_4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, some odour, some solids, turbid

Analytical Results

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	40.7	≤500	EN0044	Bangkok
COD	mg/L	-	25	120	≤750	EN0046	Bangkok
Oil & Grease	mg/L	-	3	<3	≤10	EN0048	Bangkok
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.4	5.5-9	EN0020	Bangkok
Temperature *	°C	-	-	30.5	≤40	EN0097	Bangkok
Total Suspended Solids	mg/L	-	5	18	≤200	EN0102	Bangkok

Guideline : Industrial Land on Criteria of wastewater discharging to central wastewater treatment plant

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

Key :
- 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

Signatories

Sitthikorn Bunnak Section Head 1-204-c-0013	Kanokkorn Anek Assistant General Manager 1-204-e-0004

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Analysis Report

TESTING No.0009

Work Order	BK2537472	Date Received	Nov 03, 2025
Client	WHA Utilities and Power Public Company Limited, 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported	Nov 10, 2025
Project	WHA SIL	Report Number	BK2537472-AA
Project Location	Nawaplastic Industries Co., Ltd._8_WWT_WHASIL_005_2565		

Sample Number	BK2537472-001
Sampled Date	Nov 03, 2025 10:35 AM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	Nawaplastic Industries Co., Ltd.
Contract ID	WWT_WHASIL_005_2565
Plot	8
Date of Analysis	Nov 04, 2025
Sampled by	Teerawut Puangsuk (1-204-s-0001)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H_2SO_4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, some odour, some solids, turbid

Brief Method Summaries

The methods in the analysis report are short format, refer to full test methods in accordance with the ISO/IEC 17025 certificate no. specified in the analysis report.

Method	Testing Lab	Method Descriptions
EN0020	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0097	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B
EN0102	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

—— END OF REPORT ——

Signatories

Sirilak Bunnak, Section Head, 1-204-s-0013

Kanokkorn Anek, Assistant General Manager, 1-204-e-0004

ALS Laboratory Group (Thailand) Co.,Ltd. Bangkok Life Sciences

Analysis Report

TESTING No.0009

Work Order	BK2537473	Date Received	Nov 06, 2025
Client	WHA Utilities and Power Public Company Limited, 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported	Nov 18, 2025
Project	WHA SIL	Report Number	BK2537473-AA (1)
Project Location	Nidec Component Technology(Thailand) Co., Ltd._80, 81_WWT_WHASIL_065_2564		

Sample Number	BK2537473-001
Sampled Date	Nov 06, 2025 10:30 AM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	Nidec Component Technology(Thailand) Co., Ltd.
Contract ID	WWT_WHASIL_065_2564
Plot	80, 81
Date of Analysis	Nov 07, 2025
Sampled by	Panupong Saenot (1-204-s-0204)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H_2SO_4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	colourless, some odour, some solids, no turbidity

Analytical Results

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	5.8	≤500	EN0044	Bangkok
COD	mg/L	-	25	29	≤750	EN0046	Bangkok
Oil & Grease	mg/L	-	3	<3	≤10	EN0048	Bangkok
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.4	5.5-9	EN0020	Bangkok
Temperature *	°C	-	-	29.2	≤40	EN0097	Bangkok
Total Suspended Solids	mg/L	-	5	<5	≤200	EN0102	Bangkok

Guideline : Industrial Land on Criteria of wastewater discharging to central wastewater treatment plant

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

Key :
- 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

Signatories

Sirilak Bunnak, Section Head, 1-204-s-0013

Kanokkorn Anek, Assistant General Manager, 1-204-e-0004

ALS Laboratory Group (Thailand) Co.,Ltd. Bangkok Life Sciences

Analysis Report

TESTING No.0009

Work Order	BK2537473	Date Received	Nov 06, 2025
Client	WHA Utilities and Power Public Company Limited, 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported	Nov 18, 2025
Project	WHA SIL	Report Number	BK2537473-AA (1)
Project Location	Nidec Component Technology(Thailand) Co., Ltd._80, 81_WWT_WHASIL_065_2564		

Sample Number	BK2537473-001
Sampled Date	Nov 06, 2025 10:30 AM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	Nidec Component Technology(Thailand) Co., Ltd.
Contract ID	WWT_WHASIL_065_2564
Plot	80, 81
Date of Analysis	Nov 07, 2025
Sampled by	Panupong Saenot (1-204-s-0204)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H_2SO_4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	colourless, some odour, some solids, no turbidity

Brief Method Summaries

The methods in the analysis report are short format, refer to full test methods in accordance with the ISO/IEC 17025 certificate no. specified in the analysis report.

Method	Testing Lab	Method Descriptions
EN0020	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0097	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B
EN0102	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

—— END OF REPORT ——

Signatories

Sirilak Bunnak, Section Head, 1-204-s-0013

Kanokkorn Anek, Assistant General Manager, 1-204-e-0004

ALS Laboratory Group (Thailand) Co.,Ltd. Bangkok Life Sciences

Analysis Report

TESTING No.0009

Work Order	BK2537474	Date Received	Nov 10, 2025
Client	WHA Utilities and Power Public Company Limited, 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported	Nov 17, 2025
Project	WHA SIL	Report Number	BK2537474-AA
Project Location	Nihonichi Food (Thailand) Co.,Ltd._88_WWT_WHASIL_007_2565		

Sample Number	BK2537474-001
Sampled Date	Nov 10, 2025 09:40 AM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	Nihonichi Food (Thailand) Co.,Ltd.
Contract ID	WWT_WHASIL_007_2565
Plot	88
Date of Analysis	Nov 11, 2025
Sampled by	Panupong Saenot (1-204-s-0204)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H_2SO_4, 1x Oil & Grease, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, some odour, some solids, turbid

Analytical Results

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	<2.0	≤500	EN0044	Bangkok
COD	mg/L	-	25	<25	≤750	EN0046	Bangkok
Oil & Grease	mg/L	-	3	<3	≤10	EN0048	Bangkok
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.2	5.5-9	EN0020	Bangkok
Temperature *	°C	-	-	30.1	≤40	EN0097	Bangkok
Total Suspended Solids	mg/L	-	5	10	≤200	EN0102	Bangkok

Guideline : Industrial Land on Criteria of wastewater discharging to central wastewater treatment plant

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

Key :
- 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

Signatories

Sirilak Bunnak, Section Head, 1-204-s-0013

Kanokkorn Anek, Assistant General Manager, 1-204-e-0004

ALS Laboratory Group (Thailand) Co.,Ltd. Bangkok Life Sciences

Analysis Report

TESTING No.0009

Work Order	BK2537474	Date Received	Nov 10, 2025
Client	WHA Utilities and Power Public Company Limited, 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported	Nov 17, 2025
Project	WHA SIL	Report Number	BK2537474-AA
Project Location	Nihonichi Food (Thailand) Co.,Ltd._88_WWT_WHASIL_007_2565		

Sample Number	BK2537474-001
Sampled Date	Nov 10, 2025 09:40 AM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	Nihonichi Food (Thailand) Co.,Ltd.
Contract ID	WWT_WHASIL_007_2565
Plot	88
Date of Analysis	Nov 11, 2025
Sampled by	Panupong Saenot (1-204-s-0204)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H_2SO_4, 1x Oil & Grease, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, some odour, some solids, turbid

Brief Method Summaries

The methods in the analysis report are short format, refer to full test methods in accordance with the ISO/IEC 17025 certificate no. specified in the analysis report.

Method	Testing Lab	Method Descriptions
EN0020	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0097	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B
EN0102	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

—— END OF REPORT ——

Signatories

Sirilak Bunnak, Section Head, 1-204-s-0013

Kanokkorn Anek, Assistant General Manager, 1-204-e-0004

ALS Laboratory Group (Thailand) Co.,Ltd. Bangkok Life Sciences

Analysis Report

TESTING No.0009

Work Order	BK2537475	Date Received	Nov 06, 2025
Client	WHA Utilities and Power Public Company Limited, 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported	Nov 18, 2025
Project	WHA SIL	Report Number	BK2537475-AA (1)
Project Location	Nikon (Thailand) Co.,Ltd._93C_WWT_WHASIL_063_2566		

Sample Number	BK2537475-001
Sampled Date	Nov 06, 2025 11:05 AM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	Nikon (Thailand) Co.,Ltd.
Contract ID	WWT_WHASIL_063_2566
Plot	93C
Date of Analysis	Nov 08, 2025
Sampled by	Panupong Saenot (1-204-s-0204)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H_2SO_4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, strong odour, lots of solids, turbid

Analytical Results

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	17.5	≤500	EN0044	Bangkok
COD	mg/L	-	25	82	≤750	EN0046	Bangkok
Oil & Grease	mg/L	-	3	3	≤10	EN0048	Bangkok
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.8	5.5-9	EN0020	Bangkok
Temperature *	°C	-	-	29.7	≤40	EN0097	Bangkok
Total Suspended Solids	mg/L	-	5	33	≤200	EN0102	Bangkok

Guideline : Industrial Land on Criteria of wastewater discharging to central wastewater treatment plant

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

Key :
- 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

Signatories

Sirilak Bunnak, Section Head, 1-204-s-0013

Kanokkorn Anek, Assistant General Manager, 1-204-e-0004

ALS Laboratory Group (Thailand) Co.,Ltd. Bangkok Life Sciences

Analysis Report

TESTING No.0009

Work Order	BK2537475	Date Received	Nov 06, 2025
Client	WHA Utilities and Power Public Company Limited, 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported	Nov 18, 2025
Project	WHA SIL	Report Number	BK2537475-AA (1)
Project Location	Nikon (Thailand) Co.,Ltd._93C_WWT_WHASIL_063_2566		

Sample Number	BK2537475-001
Sampled Date	Nov 06, 2025 11:05 AM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	Nikon (Thailand) Co.,Ltd.
Contract ID	WWT_WHASIL_063_2566
Plot	93C
Date of Analysis	Nov 08, 2025
Sampled by	Panupong Saenot (1-204-s-0204)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H_2SO_4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, strong odour, lots of solids, turbid

Brief Method Summaries

The methods in the analysis report are short format, refer to full test methods in accordance with the ISO/IEC 17025 certificate no. specified in the analysis report.

Method	Testing Lab	Method Descriptions
EN0020	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0097	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B
EN0102	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

—— END OF REPORT ——

Signatories

Sirilak Bunnak, Section Head, 1-204-s-0013

Kanokkorn Anek, Assistant General Manager, 1-204-e-0004

ALS Laboratory Group (Thailand) Co.,Ltd. Bangkok Life Sciences

Analysis Report

TESTING No.0009

Work Order	BK2537476	Date Received	Nov 06, 2025
Client	WHA Utilities and Power Public Company Limited, 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported	Nov 18, 2025
Project	WHA SIL	Report Number	BK2537476-AA (1)
Project Location	Noritake SA (Thailand) Co.,Ltd._21_WWT_WHASIL_040_2566		

Sample Number	BK2537476-001
Sampled Date	Nov 06, 2025 01:40 PM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	Noritake SA (Thailand) Co.,Ltd.
Contract ID	WWT_WHASIL_040_2566
Plot	21
Date of Analysis	Nov 08, 2025
Sampled by	Panupong Saenot (1-204-s-0204)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H_2SO_4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, some odour, some solids, turbid

Analytical Results

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	6.0	≤500	EN0044	Bangkok
COD	mg/L	-	25	33	≤750	EN0046	Bangkok
Oil & Grease	mg/L	-	3	<3	≤10	EN0048	Bangkok
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.4	5.5-9	EN0020	Bangkok
Temperature *	°C	-	-	30.4	≤40	EN0097	Bangkok
Total Suspended Solids	mg/L	-	5	16	≤200	EN0102	Bangkok

Guideline : Industrial Land on Criteria of wastewater discharging to central wastewater treatment plant

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

Key :
- 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

Signatories

Sirilak Bunnak, Section Head, 1-204-s-0013

Kanokkorn Anek, Assistant General Manager, 1-204-e-0004

ALS Laboratory Group (Thailand) Co.,Ltd. Bangkok Life Sciences

Analysis Report

TESTING No.0009

Work Order	BK2537476	Date Received	Nov 06, 2025
Client	WHA Utilities and Power Public Company Limited, 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported	Nov 18, 2025
Project	WHA SIL	Report Number	BK2537476-AA (1)
Project Location	Noritake SA (Thailand) Co.,Ltd._21_WWT_WHASIL_040_2566		

Sample Number	BK2537476-001
Sampled Date	Nov 06, 2025 01:40 PM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	Noritake SA (Thailand) Co.,Ltd.
Contract ID	WWT_WHASIL_040_2566
Plot	21
Date of Analysis	Nov 08, 2025
Sampled by	Panupong Saenot (1-204-s-0204)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H_2SO_4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, some odour, some solids, turbid

Brief Method Summaries

The methods in the analysis report are short format, refer to full test methods in accordance with the ISO/IEC 17025 certificate no. specified in the analysis report.

Method	Testing Lab	Method Descriptions
EN0020	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0097	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B
EN0102	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

—— END OF REPORT ——

Signatories

Sirilak Bunnak, Section Head, 1-204-s-0013

Kanokkorn Anek, Assistant General Manager, 1-204-e-0004

ALS Laboratory Group (Thailand) Co.,Ltd. Bangkok Life Sciences

Analysis Report

TESTING No.0009

Work Order	BK2537477	Date Received :	Nov 11, 2025
Client	WHA Utilities and Power Public Company Limited 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported :	Nov 18, 2025
		Report Number :	BK2537477-AA
Project	WHA SIL		
Project Location	Noritake SCG Plaster Co.,Ltd._20_WWT_WHASIL_019_2564		

Sample Number	BK2537477-001
Sampled Date	Nov 11, 2025 01:06 PM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	Noritake SCG Plaster Co.,Ltd.
Contract ID	WWT_WHASIL_019_2564
Plot	20
Date of Analysis	Nov 12, 2025
Sampled by	Teerawat Puangsuk (1-204-s-0061)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, odourless, no solids, no turbidity

Analytical Results

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	4.8	≤500	EN0044	Bangkok
COD	mg/L	-	25	35	≤750	EN0046	Bangkok
Oil & Grease	mg/L	-	3	<3	≤10	EN0048	Bangkok
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.6	5.5-9	EN0020	Bangkok
Temperature *	°C	-	-	32.2	≤45	EN0097	Bangkok
Total Dissolved Solids at 180°C	mg/L	-	5	1348	≤3000	EN0100	Bangkok
Total Suspended Solids	mg/L	-	5	7	≤200	EN0102	Bangkok

Guideline : Industrial Land on Criteria of wastewater discharging to central wastewater treatment plant

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

Key :
- 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/IEC17025

Signatories

Sirilak Bunrak, Section Head, 1-204-s-0013

Kanokkorn Anek, Assistant General Manager, 1-204-e-0004

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

Analysis Report

TESTING No.0009

Work Order	BK2537477	Date Received :	Nov 11, 2025
Client	WHA Utilities and Power Public Company Limited 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported :	Nov 18, 2025
		Report Number :	BK2537477-AA
Project	WHA SIL		
Project Location	Noritake SCG Plaster Co.,Ltd._20_WWT_WHASIL_019_2564		

Sample Number	BK2537477-001
Sampled Date	Nov 11, 2025 01:06 PM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	Noritake SCG Plaster Co.,Ltd.
Contract ID	WWT_WHASIL_019_2564
Plot	20
Date of Analysis	Nov 12, 2025
Sampled by	Teerawat Puangsuk (1-204-s-0061)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, odourless, no solids, no turbidity

Brief Method Summaries

The methods in the analysis report are short format, refer to full test methods in accordance with the ISO/IEC 17025 certificate no. specified in the analysis report.

Method	Testing Lab	Method Descriptions
EN0020	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0097	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B
EN0100	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C
EN0102	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

—— END OF REPORT ——

Signatories

Sirilak Bunrak, Section Head, 1-204-s-0013

Kanokkorn Anek, Assistant General Manager, 1-204-e-0004

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

Analysis Report

TESTING No.0009

Work Order	BK2537478	Date Received :	Nov 11, 2025
Client	WHA Utilities and Power Public Company Limited 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported :	Nov 18, 2025
		Report Number :	BK2537478-AA
Project	WHA SIL		
Project Location	NX SHOJI (THAILAND) CO., LTD._142/2_WWT_WHASIL_007_2560		

Sample Number	BK2537478-001
Sampled Date	Nov 11, 2025 11:20 AM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	NX SHOJI (THAILAND) CO., LTD.
Contract ID	WWT_WHASIL_007_2560
Plot	142/2
Date of Analysis	Nov 12, 2025
Sampled by	Teerawat Puangsuk (1-204-s-0061)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, strong odour, lots of solids, turbid

Analytical Results

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	8.5	≤500	EN0044	Bangkok
COD	mg/L	-	25	52	≤750	EN0046	Bangkok
Oil & Grease	mg/L	-	3	<3	≤10	EN0048	Bangkok
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.4	5.5-9	EN0020	Bangkok
Temperature *	°C	-	-	30.4	≤45	EN0097	Bangkok
Total Suspended Solids	mg/L	-	5	38	≤200	EN0102	Bangkok

Guideline : Industrial Land on Criteria of wastewater discharging to central wastewater treatment plant

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

Key :
- 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/IEC17025

Signatories

Sirilak Bunrak, Section Head, 1-204-s-0013

Kanokkorn Anek, Assistant General Manager, 1-204-e-0004

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Analysis Report

TESTING No.0009

Work Order	BK2537478	Date Received :	Nov 11, 2025
Client	WHA Utilities and Power Public Company Limited 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported :	Nov 18, 2025
		Report Number :	BK2537478-AA
Project	WHA SIL		
Project Location	NX SHOJI (THAILAND) CO., LTD._142/2_WWT_WHASIL_007_2560		

Sample Number	BK2537478-001
Sampled Date	Nov 11, 2025 11:20 AM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	NX SHOJI (THAILAND) CO., LTD.
Contract ID	WWT_WHASIL_007_2560
Plot	142/2
Date of Analysis	Nov 12, 2025
Sampled by	Teerawat Puangsuk (1-204-s-0061)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, strong odour, lots of solids, turbid

Brief Method Summaries

The methods in the analysis report are short format, refer to full test methods in accordance with the ISO/IEC 17025 certificate no. specified in the analysis report.

Method	Testing Lab	Method Descriptions
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EN0044	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0097	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B
EN0102	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

—— END OF REPORT ——

Signatories

Sirilak Bunrak, Section Head, 1-204-s-0013

Kanokkorn Anek, Assistant General Manager, 1-204-e-0004

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Analysis Report

TESTING No.0009

Work Order	BK2537479	Date Received :	Nov 11, 2025
Client	WHA Utilities and Power Public Company Limited 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported :	Nov 18, 2025
		Report Number :	BK2537479-AA
Project	WHA SIL		
Project Location	NX SHOJI (THAILAND) CO., LTD._142/4_WWT_WHASIL_008_2560		

Sample Number	BK2537479-001
Sampled Date	Nov 11, 2025 11:35 AM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	NX SHOJI (THAILAND) CO., LTD.
Contract ID	WWT_WHASIL_008_2560
Plot	142/4
Date of Analysis	Nov 12, 2025
Sampled by	Teerawat Puangsuk (1-204-s-0061)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, strong odour, lots of solids, highly turbid

Analytical Results

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	300	≤500	EN0044	Bangkok
COD	mg/L	-	25	1214	≤750	EN0046	Bangkok
Oil & Grease	mg/L	-	3	20	≤10	EN0048	Bangkok
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.4	5.5-9	EN0020	Bangkok
Temperature *	°C	-	-	30.1	≤45	EN0097	Bangkok
Total Suspended Solids	mg/L	-	5	1118	≤200	EN0102	Bangkok

Guideline : Industrial Land on Criteria of wastewater discharging to central wastewater treatment plant

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

Key :
- 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/IEC17025

Signatories

Sirilak Bunrak, Section Head, 1-204-s-0013

Kanokkorn Anek, Assistant General Manager, 1-204-e-0004

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Analysis Report

TESTING No.0009

Work Order	BK2537479	Date Received :	Nov 11, 2025
Client	WHA Utilities and Power Public Company Limited 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported :	Nov 18, 2025
		Report Number :	BK2537479-AA
Project	WHA SIL		
Project Location	NX SHOJI (THAILAND) CO., LTD._142/4_WWT_WHASIL_008_2560		

Sample Number	BK2537479-001
Sampled Date	Nov 11, 2025 11:35 AM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	NX SHOJI (THAILAND) CO., LTD.
Contract ID	WWT_WHASIL_008_2560
Plot	142/4
Date of Analysis	Nov 12, 2025
Sampled by	Teerawat Puangsuk (1-204-s-0061)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, strong odour, lots of solids, highly turbid

Brief Method Summaries

The methods in the analysis report are short format, refer to full test methods in accordance with the ISO/IEC 17025 certificate no. specified in the analysis report.

Method	Testing Lab	Method Descriptions
EN0020	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0097	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B
EN0102	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

—— END OF REPORT ——

Signatories

Sirilak Bunrak, Section Head, 1-204-s-0013

Kanokkorn Anek, Assistant General Manager, 1-204-e-0004

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

Analysis Report

TESTING No.0009

Work Order	BK2537482	Date Received :	Nov 07, 2025
Client	WHA Utilities and Power Public Company Limited 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported :	Nov 14, 2025
		Report Number :	BK2537482-AA
Project	WHA SIL		
Project Location	Ready Clean Co.,Ltd._38_WWT_WHASIL_063_2564		

Sample Number	BK2537482-001
Sampled Date	Nov 07, 2025 09:05 AM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	Ready Clean Co.,Ltd.
Contract ID	WWT_WHASIL_063_2564
Plot	38
Date of Analysis	Nov 08, 2025
Sampled by	Parupong Saensri (1-204-s-0204)
Condition of Sample	2x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, some odour, some solids, no turbidity

Analytical Results

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	<2.0	≤500	EN0044	Bangkok
COD	mg/L	-	25	<25	≤750	EN0046	Bangkok
Oil & Grease	mg/L	-	3	<3	≤10	EN0048	Bangkok
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	8.0	5.5-9	EN0020	Bangkok
Temperature *	°C	-	-	27.5	≤45	EN0097	Bangkok
Total Suspended Solids	mg/L	-	5	<5	≤200	EN0102	Bangkok

Guideline : Industrial Land on Criteria of wastewater discharging to central wastewater treatment plant

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

Key :
- 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/IEC17025

Signatories

Sirilak Bunrak, Section Head, 1-204-s-0013

Kanokkorn Anek, Assistant General Manager, 1-204-e-0004

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

Analysis Report

TESTING No.0009

Work Order	BK2537482	Date Received :	Nov 07, 2025
Client	WHA Utilities and Power Public Company Limited 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported :	Nov 14, 2025
		Report Number :	BK2537482-AA
Project	WHA SIL		
Project Location	Ready Clean Co.,Ltd._38_WWT_WHASIL_063_2564		

Sample Number	BK2537482-001
Sampled Date	Nov 07, 2025 09:05 AM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	Ready Clean Co.,Ltd.
Contract ID	WWT_WHASIL_063_2564
Plot	38
Date of Analysis	Nov 08, 2025
Sampled by	Parupong Saensri (1-204-s-0204)
Condition of Sample	2x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, some odour, some solids, no turbidity

Brief Method Summaries

The methods in the analysis report are short format, refer to full test methods in accordance with the ISO/IEC 17025 certificate no. specified in the analysis report.

Method	Testing Lab	Method Descriptions
EN0020	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0097	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B
EN0102	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

—— END OF REPORT ——

Signatories

Sirilak Bunrak, Section Head, 1-204-s-0013

Kanokkorn Anek, Assistant General Manager, 1-204-e-0004

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

Analysis Report

Work Order	BK2537482	Date Received :	Nov 07, 2025
Client	WHA Utilities and Power Public Company Limited 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported :	Nov 14, 2025
		Report Number :	BK2537482-AB
Project	WHA SIL		
Project Location	Ready Clean Co.,Ltd._38_WWT_WHASIL_063_2564		

Sample Number	BK2537482-001
Sampled Date	Nov 07, 2025 09:05 AM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	Ready Clean Co.,Ltd.
Contract ID	WWT_WHASIL_063_2564
Plot	38
Date of Analysis	Nov 10, 2025
Sampled by	Parupong Saensri
Condition of Sample	2x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, some odour, some solids, no turbidity

Analytical Results

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
Anionic Surfactants as MBAS	mg/L	-	0.05	0.15	≤30	EN0043	Bangkok

Guideline : Industrial Land on Criteria of wastewater discharging to central wastewater treatment plant

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

Brief Method Summaries

The methods in the analysis report are short format, refer to full test methods in accordance with the ISO/IEC 17025 certificate no. specified in the analysis report.

Method	Testing Lab	Method Descriptions
EN0043	Bangkok	Based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5540 B, C

—— END OF REPORT ——

Signatories

Sirilak Bunrak, Section Head

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

Analysis Report

TESTING No.0009

Work Order	BK2537485	Date Received	Nov 03, 2025
Client	WHA Utilities and Power Public Company Limited 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported	Nov 10, 2025
Project	WHA SIL	Report Number	BK2537485-AA
Project Location	Rohm Mechatech (Thailand) Co.,Ltd._138_WWT_WHASIL_047_2566		

Sample Number	BK2537485-001
Sampled Date	Nov 03, 2025 09:47 AM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	Rohm Mechatech (Thailand) Co.,Ltd.
Contract ID	WWT_WHASIL_047_2566
Plot	138
Date of Analysis	Nov 04, 2025
Sampled by	Teeswat Puangsuk (1-204-c-0061)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H_2SO_4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, some odour, some solids, turbid

Analytical Results

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	4.8	≤500	EN0044	Bangkok
COD	mg/L	-	25	51	≤750	EN0046	Bangkok
Oil & Grease	mg/L	-	3	<3	≤10	EN0048	Bangkok
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.3	5.5-9	EN0020	Bangkok
Temperature *	°C	-	-	29.8	≤45	EN0097	Bangkok
Total Suspended Solids	mg/L	-	5	11	≤200	EN0102	Bangkok

Guideline : Industrial Land on Criteria of wastewater discharging to central wastewater treatment plant
Comment : Sampling is not included in scope of accreditation ISO/IEC 17025
Key :
- 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

Signatories

Sirilak Bunnak, Section Head, 1-204-c-0013 — Kanokkorn Anek, Assistant General Manager, 1-204-e-0004

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

Analysis Report

TESTING No.0009

Work Order	BK2537485	Date Received	Nov 03, 2025
Client	WHA Utilities and Power Public Company Limited 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported	Nov 10, 2025
Project	WHA SIL	Report Number	BK2537485-AA
Project Location	Rohm Mechatech (Thailand) Co.,Ltd._138_WWT_WHASIL_047_2566		

Sample Number	BK2537485-001
Sampled Date	Nov 03, 2025 09:47 AM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	Rohm Mechatech (Thailand) Co.,Ltd.
Contract ID	WWT_WHASIL_047_2566
Plot	138
Date of Analysis	Nov 04, 2025
Sampled by	Teeswat Puangsuk (1-204-c-0061)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H_2SO_4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, some odour, some solids, turbid

Brief Method Summaries

The methods in the analysis report are short format, refer to full test methods in accordance with the ISO/IEC 17025 certificate no. specified in the analysis report.

Method	Testing Lab	Method Descriptions
EN0020	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0097	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B
EN0102	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

——— END OF REPORT ———

Signatories

Sirilak Bunnak, Section Head, 1-204-c-0013 — Kanokkorn Anek, Assistant General Manager, 1-204-e-0004

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Analysis Report

TESTING No.0009

Work Order	BK2537486	Date Received	Nov 05, 2025
Client	WHA Utilities and Power Public Company Limited 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported	Nov 10, 2025
Project	WHA SIL	Report Number	BK2537486-AA (1)
Project Location	SCG Ceramics Co.,Ltd._91_WWT_WHASIL_001_2560		

Sample Number	BK2537486-001
Sampled Date	Nov 05, 2025 10:52 AM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	SCG Ceramics Co.,Ltd.
Contract ID	WWT_WHASIL_001_2560
Plot	91
Date of Analysis	Nov 06, 2025
Sampled by	Panupong Saenoi (1-204-c-0204)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H_2SO_4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, some odour, some solids, no turbidity

Analytical Results

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	2.9	≤500	EN0044	Bangkok
COD	mg/L	-	25	<25	≤750	EN0046	Bangkok
Oil & Grease	mg/L	-	3	<3	≤10	EN0048	Bangkok
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	8.0	5.5-9	EN0020	Bangkok
Temperature *	°C	-	-	28.8	≤45	EN0097	Bangkok
Total Suspended Solids	mg/L	-	5	<5	≤200	EN0102	Bangkok

Guideline : Industrial Land on Criteria of wastewater discharging to central wastewater treatment plant
Comment : Sampling is not included in scope of accreditation ISO/IEC 17025
Key :
- 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

Signatories

Sirilak Bunnak, Section Head, 1-204-c-0013 — Kanokkorn Anek, Assistant General Manager, 1-204-e-0004

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Analysis Report

TESTING No.0009

Work Order	BK2537486	Date Received	Nov 05, 2025
Client	WHA Utilities and Power Public Company Limited 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported	Nov 10, 2025
Project	WHA SIL	Report Number	BK2537486-AA (1)
Project Location	SCG Ceramics Co.,Ltd._91_WWT_WHASIL_001_2560		

Sample Number	BK2537486-001
Sampled Date	Nov 05, 2025 10:52 AM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	SCG Ceramics Co.,Ltd.
Contract ID	WWT_WHASIL_001_2560
Plot	91
Date of Analysis	Nov 06, 2025
Sampled by	Panupong Saenoi (1-204-c-0204)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H_2SO_4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, some odour, some solids, no turbidity

Brief Method Summaries

The methods in the analysis report are short format, refer to full test methods in accordance with the ISO/IEC 17025 certificate no. specified in the analysis report.

Method	Testing Lab	Method Descriptions
EN0020	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0097	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B
EN0102	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

——— END OF REPORT ———

Signatories

Sirilak Bunnak, Section Head, 1-204-c-0013 — Kanokkorn Anek, Assistant General Manager, 1-204-e-0004

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Analysis Report

TESTING No.0009

Work Order	BK2537488	Date Received	Nov 06, 2025
Client	WHA Utilities and Power Public Company Limited 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported	Nov 18, 2025
Project	WHA SIL	Report Number	BK2537488-AA (1)
Project Location	SCG Landscape_14_WWT_WHASIL_001_2565		

Sample Number	BK2537488-001
Sampled Date	Nov 06, 2025 01:20 PM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	SCG Landscape
Contract ID	WWT_WHASIL_001_2565
Plot	14
Date of Analysis	Nov 06, 2025
Sampled by	Panupong Saenoi (1-204-c-0204)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H_2SO_4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, strong odour, some solids, highly turbid

Analytical Results

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	15.5	≤500	EN0044	Bangkok
COD	mg/L	-	25	60	≤750	EN0046	Bangkok
Oil & Grease	mg/L	-	3	<3	≤10	EN0048	Bangkok
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.3	5.5-9	EN0020	Bangkok
Temperature *	°C	-	-	32.3	≤45	EN0097	Bangkok
Total Suspended Solids	mg/L	-	5	15	≤200	EN0102	Bangkok

Guideline : Industrial Land on Criteria of wastewater discharging to central wastewater treatment plant
Comment : Sampling is not included in scope of accreditation ISO/IEC 17025
Key :
- 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

Signatories

Sirilak Bunnak, Section Head, 1-204-c-0013 — Kanokkorn Anek, Assistant General Manager, 1-204-e-0004

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

Analysis Report

TESTING No.0009

Work Order	BK2537488	Date Received	Nov 06, 2025
Client	WHA Utilities and Power Public Company Limited 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported	Nov 18, 2025
Project	WHA SIL	Report Number	BK2537488-AA (1)
Project Location	SCG Landscape_14_WWT_WHASIL_001_2565		

Sample Number	BK2537488-001
Sampled Date	Nov 06, 2025 01:20 PM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	SCG Landscape
Contract ID	WWT_WHASIL_001_2565
Plot	14
Date of Analysis	Nov 06, 2025
Sampled by	Panupong Saenoi (1-204-c-0204)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H_2SO_4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, strong odour, some solids, highly turbid

Brief Method Summaries

The methods in the analysis report are short format, refer to full test methods in accordance with the ISO/IEC 17025 certificate no. specified in the analysis report.

Method	Testing Lab	Method Descriptions
EN0020	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0097	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B
EN0102	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

——— END OF REPORT ———

Signatories

Sirilak Bunnak, Section Head, 1-204-c-0013 — Kanokkorn Anek, Assistant General Manager, 1-204-e-0004

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

Analysis Report

TESTING No.0009

Work Order	BK2537489	Date Received	Nov 07, 2025
Client	WHA Utilities and Power Public Company Limited 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported	Nov 18, 2025
Project	WHA SIL	Report Number	BK2537489-AA (1)
Project Location	SCG Roofing Co.,Ltd._10, 11_WWT_WHASIL_002_2564		

Sample Number	BK2537489-001
Sampled Date	Nov 07, 2025 09:10 AM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	SCG Roofing Co.,Ltd
Contract ID	WWT_WHASIL_002_2564
Plot	10, 11
Date of Analysis	Nov 08, 2025
Sampled by	Panupong Saenoi (1-204-c-0204)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H_2SO_4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, some odour, some solids, turbid

Analytical Results

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	2.7	≤500	EN0044	Bangkok
COD	mg/L	-	25	<25	≤750	EN0046	Bangkok
Oil & Grease	mg/L	-	3	<3	≤10	EN0048	Bangkok
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.6	5.5-9	EN0020	Bangkok
Temperature *	°C	-	-	29.0	≤45	EN0097	Bangkok
Total Suspended Solids	mg/L	-	5	15	≤200	EN0102	Bangkok

Guideline : Industrial Land on Criteria of wastewater discharging to central wastewater treatment plant
Comment : Sampling is not included in scope of accreditation ISO/IEC 17025
Key :
- 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

Signatories

Sirilak Bunnak, Section Head, 1-204-c-0013 — Kanokkorn Anek, Assistant General Manager, 1-204-e-0004

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

Analysis Report

TESTING No.0009

Work Order	BK2537489	Date Received	Nov 07, 2025
Client	WHA Utilities and Power Public Company Limited 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported	Nov 18, 2025
Project	WHA SIL	Report Number	BK2537489-AA (1)
Project Location	SCG Roofing Co.,Ltd._10, 11_WWT_WHASIL_002_2564		

Sample Number	BK2537489-001
Sampled Date	Nov 07, 2025 09:10 AM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	SCG Roofing Co.,Ltd
Contract ID	WWT_WHASIL_002_2564
Plot	10, 11
Date of Analysis	Nov 08, 2025
Sampled by	Panupong Saenoi (1-204-c-0204)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H_2SO_4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, some odour, some solids, turbid

Brief Method Summaries

The methods in the analysis report are short format, refer to full test methods in accordance with the ISO/IEC 17025 certificate no. specified in the analysis report.

Method	Testing Lab	Method Descriptions
EN0020	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0097	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B
EN0102	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

——— END OF REPORT ———

Signatories

Sirilak Bunnak, Section Head, 1-204-c-0013 — Kanokkorn Anek, Assistant General Manager, 1-204-e-0004

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

Analysis Report

TESTING No.0009

Work Order	BK2537490	Date Received	Nov 06, 2025
Client	WHA Utilities and Power Public Company Limited 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported	Nov 18, 2025
Project	WHA SIL	Report Number	BK2537490-AA (1)
Project Location	SCG Roofing Co.,Ltd._19,41_WWT_WHASIL_025_2564		

Sample Number	BK2537490-001
Sampled Date	Nov 06, 2025 10:50 AM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	SCG Roofing Co.,Ltd
Contract ID	WWT_WHASIL_025_2564
Plot	19,41
Date of Analysis	Nov 08, 2025
Sampled by	Panupong Saenoi (1-204-c-0204)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H_2SO_4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	colourless, some odour, some solids, no turbidity

Analytical Results

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	<2.0	≤500	EN0044	Bangkok
COD	mg/L	-	25	<25	≤750	EN0046	Bangkok
Oil & Grease	mg/L	-	3	<3	≤10	EN0048	Bangkok
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.7	5.5-9	EN0020	Bangkok
Temperature *	°C	-	-	28.7	≤45	EN0097	Bangkok
Total Suspended Solids	mg/L	-	5	<5	≤200	EN0102	Bangkok

Guideline : Industrial Land on Criteria of wastewater discharging to central wastewater treatment plant
Comment : Sampling is not included in scope of accreditation ISO/IEC 17025
Key :
- 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

Signatories

Sirilak Bunnak, Section Head, 1-204-c-0013 — Kanokkorn Anek, Assistant General Manager, 1-204-e-0004

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

Analysis Report

TESTING No.0009

Work Order	BK2537490	Date Received	Nov 05, 2025
Client	WHA Utilities and Power Public Company Limited, 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported	Nov 18, 2025
Project	WHA SIL	Report Number	BK2537490-AA (1)
Project Location	SCG Roofing Co.,Ltd._18,41_WWT_WHASIL_025_2564		

Sample Number	BK2537490-001
Sampled Date	Nov 05, 2025 10:50 AM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	SCG Roofing Co.,Ltd.
Contract ID	WWT_WHASIL_025_2564
Plot	18,41
Date of Analysis	Nov 06, 2025
Sampled by	Panupong Saensri (1-204-c-0204)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H_2SO_4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	colourless, some odour, some solids, no turbidity

Brief Method Summaries

The methods in the analysis report are short format, refer to full test methods in accordance with the ISO/IEC 17025 certificate no. specified in the analysis report.

Method	Testing Lab	Method Descriptions
EN0020	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0097	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B
EN0102	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

—— END OF REPORT ——

Signatories

Sirilak Bunnak, Section Head, 1-204-c-0013
Kanokkorn Anek, Assistant General Manager, 1-204-e-0004

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

Analysis Report

TESTING No.0009

Work Order	BK2537494	Date Received	Nov 12, 2025
Client	WHA Utilities and Power Public Company Limited, 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported	Nov 18, 2025
Project	WHA SIL	Report Number	BK2537494-AA
Project Location	Scholes Technology (Thailand) Company Limited_2/3_WWT_WHASIL_006_2568		

Sample Number	BK2537494-001
Sampled Date	Nov 12, 2025 01:00 PM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	Scholes Technology (Thailand) Company Limited
Contract ID	WWT_WHASIL_006_2568
Plot	2/3
Date of Analysis	Nov 13, 2025
Sampled by	Panupong Saensri (1-204-c-0204)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H_2SO_4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, strong odour, some solids, turbid

Analytical Results

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	20.5	≤500	EN0044	Bangkok
COD	mg/L	-	25	97	≤750	EN0046	Bangkok
Oil & Grease	mg/L	-	3	<3	≤10	EN0048	Bangkok
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.6	5.5-9	EN0020	Bangkok
Temperature *	°C	-	-	30.8	≤40	EN0097	Bangkok
Total Suspended Solids	mg/L	-	5	25	≤200	EN0102	Bangkok

Guideline: Industrial Land on Criteria of wastewater discharging to central wastewater treatment plant
Comment: Sampling is not included in scope of accreditation ISO/IEC 17025
Key:
- 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

Signatories

Nanthawadee Somboon, Specialist 2, 1-204-c-0010
Kanokkorn Anek, Assistant General Manager, 1-204-e-0004

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

Analysis Report

TESTING No.0009

Work Order	BK2537494	Date Received	Nov 12, 2025
Client	WHA Utilities and Power Public Company Limited, 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported	Nov 18, 2025
Project	WHA SIL	Report Number	BK2537494-AA
Project Location	Scholes Technology (Thailand) Company Limited_2/3_WWT_WHASIL_006_2568		

Sample Number	BK2537494-001
Sampled Date	Nov 12, 2025 01:00 PM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	Scholes Technology (Thailand) Company Limited
Contract ID	WWT_WHASIL_006_2568
Plot	2/3
Date of Analysis	Nov 13, 2025
Sampled by	Panupong Saensri (1-204-c-0204)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H_2SO_4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, strong odour, some solids, turbid

Brief Method Summaries

The methods in the analysis report are short format, refer to full test methods in accordance with the ISO/IEC 17025 certificate no. specified in the analysis report.

Method	Testing Lab	Method Descriptions
EN0020	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0097	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B
EN0102	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

—— END OF REPORT ——

Signatories

Nanthawadee Somboon, Specialist 2, 1-204-c-0010
Kanokkorn Anek, Assistant General Manager, 1-204-e-0004

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

Analysis Report

TESTING No.0009

Work Order	BK2537497	Date Received	Nov 10, 2025
Client	WHA Utilities and Power Public Company Limited, 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported	Nov 17, 2025
Project	WHA SIL	Report Number	BK2537497-AA
Project Location	SEKI Corp.(Thailand) Co.,Ltd._61,62_WWT_WHASIL_015_2566		

Sample Number	BK2537497-001
Sampled Date	Nov 10, 2025 10:30 AM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	SEKI Corp.(Thailand) Co.,Ltd.
Contract ID	WWT_WHASIL_015_2566
Plot	61,62
Date of Analysis	Nov 11, 2025
Sampled by	Panupong Saensri (1-204-c-0204)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H_2SO_4, 1x Oil & Grease, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, some odour, some solids, turbid

Analytical Results

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	6.2	≤500	EN0044	Bangkok
COD	mg/L	-	25	83	≤750	EN0046	Bangkok
Oil & Grease	mg/L	-	3	3	≤10	EN0048	Bangkok
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.8	5.5-9	EN0020	Bangkok
Temperature *	°C	-	-	30.4	≤40	EN0097	Bangkok
Total Suspended Solids	mg/L	-	5	24	≤200	EN0102	Bangkok

Guideline: Industrial Land on Criteria of wastewater discharging to central wastewater treatment plant
Comment: Sampling is not included in scope of accreditation ISO/IEC 17025
Key:
- 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

Signatories

Sirilak Bunnak, Section Head, 1-204-c-0013
Kanokkorn Anek, Assistant General Manager, 1-204-e-0004

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Analysis Report

TESTING No.0009

Work Order	BK2537497	Date Received	Nov 10, 2025
Client	WHA Utilities and Power Public Company Limited, 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported	Nov 17, 2025
Project	WHA SIL	Report Number	BK2537497-AA
Project Location	SEKI Corp.(Thailand) Co.,Ltd._61,62_WWT_WHASIL_015_2566		

Sample Number	BK2537497-001
Sampled Date	Nov 10, 2025 10:30 AM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	SEKI Corp.(Thailand) Co.,Ltd.
Contract ID	WWT_WHASIL_015_2566
Plot	61,62
Date of Analysis	Nov 11, 2025
Sampled by	Panupong Saensri (1-204-c-0204)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H_2SO_4, 1x Oil & Grease, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, some odour, some solids, turbid

Brief Method Summaries

The methods in the analysis report are short format, refer to full test methods in accordance with the ISO/IEC 17025 certificate no. specified in the analysis report.

Method	Testing Lab	Method Descriptions
EN0020	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0097	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B
EN0102	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

—— END OF REPORT ——

Signatories

Sirilak Bunnak, Section Head, 1-204-c-0013
Kanokkorn Anek, Assistant General Manager, 1-204-e-0004

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Analysis Report

TESTING No.0009

Work Order	BK2537498	Date Received	Nov 10, 2025
Client	WHA Utilities and Power Public Company Limited, 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported	Nov 17, 2025
Project	WHA SIL	Report Number	BK2537498-AA
Project Location	Sekisui Plastics (Thailand) Co.,Ltd._66_WWT_WHASIL_057_2566		

Sample Number	BK2537498-001
Sampled Date	Nov 10, 2025 10:00 AM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	Sekisui Plastics (Thailand) Co.,Ltd.
Contract ID	WWT_WHASIL_057_2566
Plot	66
Date of Analysis	Nov 11, 2025
Sampled by	Panupong Saensri (1-204-c-0204)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H_2SO_4, 1x Oil & Grease, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, some odour, some solids, no turbidity

Analytical Results

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	2.1	≤500	EN0044	Bangkok
COD	mg/L	-	25	<25	≤750	EN0046	Bangkok
Oil & Grease	mg/L	-	3	<3	≤10	EN0048	Bangkok
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.4	5.5-9	EN0020	Bangkok
Temperature *	°C	-	-	32.5	≤45	EN0097	Bangkok
Total Suspended Solids	mg/L	-	5	<5	≤200	EN0102	Bangkok

Guideline: Industrial Land on Criteria of wastewater discharging to central wastewater treatment plant
Comment: Sampling is not included in scope of accreditation ISO/IEC 17025
Key:
- 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

Signatories

Sirilak Bunnak, Section Head, 1-204-c-0013
Kanokkorn Anek, Assistant General Manager, 1-204-e-0004

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Analysis Report

TESTING No.0009

Work Order	BK2537498	Date Received	Nov 10, 2025
Client	WHA Utilities and Power Public Company Limited, 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported	Nov 17, 2025
Project	WHA SIL	Report Number	BK2537498-AA
Project Location	Sekisui Plastics (Thailand) Co.,Ltd._66_WWT_WHASIL_057_2566		

Sample Number	BK2537498-001
Sampled Date	Nov 10, 2025 10:00 AM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	Sekisui Plastics (Thailand) Co.,Ltd.
Contract ID	WWT_WHASIL_057_2566
Plot	66
Date of Analysis	Nov 11, 2025
Sampled by	Panupong Saensri (1-204-c-0204)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H_2SO_4, 1x Oil & Grease, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, some odour, some solids, no turbidity

Brief Method Summaries

The methods in the analysis report are short format, refer to full test methods in accordance with the ISO/IEC 17025 certificate no. specified in the analysis report.

Method	Testing Lab	Method Descriptions
EN0020	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0097	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B
EN0102	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

—— END OF REPORT ——

Signatories

Sirilak Bunnak, Section Head, 1-204-c-0013
Kanokkorn Anek, Assistant General Manager, 1-204-e-0004

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Analysis Report

TESTING No.0009

Work Order	BK2537500	Date Received	Nov 06, 2025
Client	WHA Utilities and Power Public Company Limited, 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported	Nov 18, 2025
Project	WHA SIL	Report Number	BK2537500-AA (1)
Project Location	Sekisui-SCG Industrial Co.,Ltd._144,146_WWT_WHASIL_071_2567		

Sample Number	BK2537500-001
Sampled Date	Nov 06, 2025 10:20 AM
Sample Name	Group 2 Wastewater WW-CT : Point 1
Sampling Site	Sekisui-SCG Industrial Co.,Ltd.
Contract ID	WWT_WHASIL_071_2567
Plot	144,146
Date of Analysis	Nov 06, 2025
Sampled by	Panupong Saensri (1-204-c-0204)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H_2SO_4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, some odour, some solids, no turbidity

Analytical Results

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	<2.0	≤500	EN0044	Bangkok
COD	mg/L	-	25	<25	≤750	EN0046	Bangkok
Oil & Grease	mg/L	-	3	<3	≤10	EN0048	Bangkok
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.8	5.5-9	EN0020	Bangkok
Temperature *	°C	-	-	29.3	≤45	EN0097	Bangkok
Total Suspended Solids	mg/L	-	5	<5	≤200	EN0102	Bangkok

Guideline: Industrial Land on Criteria of wastewater discharging to central wastewater treatment plant
Comment: Sampling is not included in scope of accreditation ISO/IEC 17025
Key:
- 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

Signatories

Sirilak Bunnak, Section Head, 1-204-c-0013
Kanokkorn Anek, Assistant General Manager, 1-204-e-0004

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

Analysis Report

TESTING No.0009

Work Order	BK2537500	Date Received	Nov 06, 2025
Client	WHA Utilities and Power Public Company Limited, 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported	Nov 18, 2025
Project	WHA SIL	Report Number	BK2537500-AA (1)
Project Location	Sekisui-SCG Industrial Co.,Ltd._144,146_WWT_WHASIL_071_2567		

Sample Number	BK2537500-001
Sampled Date	Nov 06, 2025 10:20 AM
Sample Name	Group 2 Wastewater WW-CT : Point 1
Sampling Site	Sekisui-SCG Industrial Co.,Ltd.
Contract ID	WWT_WHASIL_071_2567
Plot	144,146
Date of Analysis	Nov 06, 2025
Sampled by	Panupong Saensri (1-204-c-0204)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H_2SO_4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, some odour, some solids, no turbidity

Brief Method Summaries

The methods in the analysis report are short format, refer to full test methods in accordance with the ISO/IEC 17025 certificate no. specified in the analysis report.

Method	Testing Lab	Method Descriptions
EN0020	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0097	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B
EN0102	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

—— END OF REPORT ——

Signatories

Sirilak Bunnak, Section Head, 1-204-c-0013
Kanokkorn Anek, Assistant General Manager, 1-204-e-0004

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

Analysis Report

TESTING No.0009

Work Order	BK2537501	Date Received	Nov 05, 2025
Client	WHA Utilities and Power Public Company Limited 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported	Nov 18, 2025
Project	WHA SIL	Report Number	BK2537501-AA (1)
Project Location	Sekisui-SCG Industrial Co.,Ltd._144,145_WWT_WHASIL_006_2568		

Sample Number	BK2537501-001
Sampled Date	Nov 05, 2025 10:15 AM
Sample Name	Group 2 Wastewater WW-CT : Point 2
Sampling Site	Sekisui-SCG Industrial Co.,Ltd.
Contract ID	WWT_WHASIL_006_2568
Plot	144,145
Date of Analysis	Nov 06, 2025
Sampled by	Panupong Saensri (1-204-c-0204)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H_2SO_4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, some odour, some solids, no turbidity

Analytical Results

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	<2.0	≤500	EN0044	Bangkok
COD	mg/L	-	25	<25	≤750	EN0046	Bangkok
Oil & Grease	mg/L	-	3	<3	≤10	EN0048	Bangkok
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.8	5.5-9	EN0020	Bangkok
Temperature *	°C	-	-	29.1	≤45	EN0097	Bangkok
Total Suspended Solids	mg/L	-	5	<5	≤200	EN0102	Bangkok

Guideline : Industrial Land on Criteria of wastewater discharging to central wastewater treatment plant

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

Key :
- 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

Signatories

Siriluk Bunnak, Section Head, 1-204-c-0013

Kanokkorn Anek, Assistant General Manager, 1-204-e-0004

Analysis Report

TESTING No.0009

Work Order	BK2537501	Date Received	Nov 05, 2025
Client	WHA Utilities and Power Public Company Limited 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported	Nov 18, 2025
Project	WHA SIL	Report Number	BK2537501-AA (1)
Project Location	Sekisui-SCG Industrial Co.,Ltd._144,145_WWT_WHASIL_006_2568		

Sample Number	BK2537501-001
Sampled Date	Nov 05, 2025 10:15 AM
Sample Name	Group 2 Wastewater WW-CT : Point 2
Sampling Site	Sekisui-SCG Industrial Co.,Ltd.
Contract ID	WWT_WHASIL_006_2568
Plot	144,145
Date of Analysis	Nov 06, 2025
Sampled by	Panupong Saensri (1-204-c-0204)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H_2SO_4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, some odour, some solids, no turbidity

Brief Method Summaries

The methods in the analysis report are short forms; refer to full test methods in accordance with the ISO/IEC 17025 certificate no. specified in the analysis report.

Method	Testing Lab	Method Descriptions
EN0020	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0097	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B
EN0102	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

——— END OF REPORT ———

Signatories

Siriluk Bunnak, Section Head, 1-204-c-0013

Kanokkorn Anek, Assistant General Manager, 1-204-e-0004

Analysis Report

TESTING No.0009

Work Order	BK2537502	Date Received	Nov 10, 2025
Client	WHA Utilities and Power Public Company Limited 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported	Nov 17, 2025
Project	WHA SIL	Report Number	BK2537502-AA
Project Location	Shibakawa (Thailand) Co.,Ltd._98_WWT_WHASIL_068_2567		

Sample Number	BK2537502-001
Sampled Date	Nov 10, 2025 09:50 AM
Sample Name	Group 2 Wastewater WW-CT : Point 2
Sampling Site	Shibakawa (Thailand) Co.,Ltd.
Contract ID	WWT_WHASIL_068_2567
Plot	98
Date of Analysis	Nov 11, 2025
Sampled by	Panupong Saensri (1-204-c-0204)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H_2SO_4, 1x Oil & Grease, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, strong odour, lots of solids, highly turbid

Analytical Results

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	12.4	≤500	EN0044	Bangkok
COD	mg/L	-	25	78	≤750	EN0046	Bangkok
Oil & Grease	mg/L	-	3	<3	≤10	EN0048	Bangkok
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.8	5.5-9	EN0020	Bangkok
Temperature *	°C	-	-	30.5	≤45	EN0097	Bangkok
Total Suspended Solids	mg/L	-	5	23	≤200	EN0102	Bangkok

Guideline : Industrial Land on Criteria of wastewater discharging to central wastewater treatment plant

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

Key :
- 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

Signatories

Siriluk Bunnak, Section Head, 1-204-c-0013

Kanokkorn Anek, Assistant General Manager, 1-204-e-0004

Analysis Report

TESTING No.0009

Work Order	BK2537502	Date Received	Nov 10, 2025
Client	WHA Utilities and Power Public Company Limited 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported	Nov 17, 2025
Project	WHA SIL	Report Number	BK2537502-AA
Project Location	Shibakawa (Thailand) Co.,Ltd._98_WWT_WHASIL_068_2567		

Sample Number	BK2537502-001
Sampled Date	Nov 10, 2025 09:50 AM
Sample Name	Group 2 Wastewater WW-CT : Point 2
Sampling Site	Shibakawa (Thailand) Co.,Ltd.
Contract ID	WWT_WHASIL_068_2567
Plot	98
Date of Analysis	Nov 11, 2025
Sampled by	Panupong Saensri (1-204-c-0204)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H_2SO_4, 1x Oil & Grease, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, strong odour, lots of solids, highly turbid

Brief Method Summaries

The methods in the analysis report are short forms; refer to full test methods in accordance with the ISO/IEC 17025 certificate no. specified in the analysis report.

Method	Testing Lab	Method Descriptions
EN0020	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0097	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B
EN0102	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

——— END OF REPORT ———

Signatories

Siriluk Bunnak, Section Head, 1-204-c-0013

Kanokkorn Anek, Assistant General Manager, 1-204-e-0004

Analysis Report

TESTING No.0009

Work Order	BK2537505	Date Received	Nov 04, 2025
Client	WHA Utilities and Power Public Company Limited 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported	Nov 11, 2025
Project	WHA SIL	Report Number	BK2537505-AA
Project Location	Shinertech (WCT Co.,Ltd.)_150_WWT_WHASIL_081_2567		

Sample Number	BK2537505-001
Sampled Date	Nov 04, 2025 01:40 PM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	Shinertech (WCT Co.,Ltd.)
Contract ID	WWT_WHASIL_081_2567
Plot	150
Date of Analysis	Nov 05, 2025
Sampled by	Panupong Saensri (1-204-c-0204)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H_2SO_4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, some odour, some solids, no turbidity

Analytical Results

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	2.2	≤500	EN0044	Bangkok
COD	mg/L	-	25	<25	≤750	EN0046	Bangkok
Oil & Grease	mg/L	-	3	<3	≤10	EN0048	Bangkok
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.8	5.5-9	EN0020	Bangkok
Temperature *	°C	-	-	29.7	≤45	EN0097	Bangkok
Total Suspended Solids	mg/L	-	5	23	≤200	EN0102	Bangkok

Guideline : Industrial Land on Criteria of wastewater discharging to central wastewater treatment plant

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

Key :
- 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

Signatories

Siriluk Bunnak, Section Head, 1-204-c-0013

Kanokkorn Anek, Assistant General Manager, 1-204-e-0004

Analysis Report

TESTING No.0009

Work Order	BK2537505	Date Received	Nov 04, 2025
Client	WHA Utilities and Power Public Company Limited 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported	Nov 11, 2025
Project	WHA SIL	Report Number	BK2537505-AA
Project Location	Shinertech (WCT Co.,Ltd.)_150_WWT_WHASIL_081_2567		

Sample Number	BK2537505-001
Sampled Date	Nov 04, 2025 01:40 PM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	Shinertech (WCT Co.,Ltd.)
Contract ID	WWT_WHASIL_081_2567
Plot	150
Date of Analysis	Nov 05, 2025
Sampled by	Panupong Saensri (1-204-c-0204)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H_2SO_4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, some odour, some solids, no turbidity

Brief Method Summaries

The methods in the analysis report are short forms; refer to full test methods in accordance with the ISO/IEC 17025 certificate no. specified in the analysis report.

Method	Testing Lab	Method Descriptions
EN0020	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0097	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B
EN0102	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

——— END OF REPORT ———

Signatories

Siriluk Bunnak, Section Head, 1-204-c-0013

Kanokkorn Anek, Assistant General Manager, 1-204-e-0004

Analysis Report

TESTING No.0009

Work Order	BK2537506	Date Received	Nov 07, 2025
Client	WHA Utilities and Power Public Company Limited 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported	Nov 18, 2025
Project	WHA SIL	Report Number	BK2537506-AA (1)
Project Location	SIAM FIBERGLASS COMPANY LIMITED_8_WWT_WHASIL_052_2564		

Sample Number	BK2537506-001
Sampled Date	Nov 07, 2025 09:00 AM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	SIAM FIBERGLASS COMPANY LIMITED
Contract ID	WWT_WHASIL_052_2564
Plot	8
Date of Analysis	Nov 08, 2025
Sampled by	Panupong Saensri (1-204-c-0204)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H_2SO_4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, some odour, some solids, turbid

Analytical Results

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	16.8	≤500	EN0044	Bangkok
COD	mg/L	-	25	55	≤750	EN0046	Bangkok
Formaldehyde	mg/L	0.03	0.1	0.5	≤1	EN0010	Bangkok
Oil & Grease	mg/L	-	3	<3	≤10	EN0048	Bangkok
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	8.0	5.5-9	EN0020	Bangkok
Temperature *	°C	-	-	28.9	≤45	EN0097	Bangkok
Total Suspended Solids	mg/L	-	5	16	≤200	EN0102	Bangkok

Guideline : Industrial Land on Criteria of wastewater discharging to central wastewater treatment plant

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

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

Signatories

Siriluk Bunnak, Section Head, 1-204-c-0013

Kanokkorn Anek, Assistant General Manager, 1-204-e-0004

Analysis Report

TESTING No.0009

Work Order	BK2537506	Date Received	Nov 07, 2025
Client	WHA Utilities and Power Public Company Limited 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported	Nov 18, 2025
Project	WHA SIL	Report Number	BK2537506-AA (1)
Project Location	SIAM FIBERGLASS COMPANY LIMITED_8_WWT_WHASIL_052_2564		

Sample Number	BK2537506-001
Sampled Date	Nov 07, 2025 09:00 AM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	SIAM FIBERGLASS COMPANY LIMITED
Contract ID	WWT_WHASIL_052_2564
Plot	8
Date of Analysis	Nov 08, 2025
Sampled by	Panupong Saensri (1-204-c-0204)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H_2SO_4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, some odour, some solids, turbid

Brief Method Summaries

The methods in the analysis report are short forms; refer to full test methods in accordance with the ISO/IEC 17025 certificate no. specified in the analysis report.

Method	Testing Lab	Method Descriptions
EN0010	Bangkok	Wastewater analysis manual, Environmental Engineering Association of Thailand, 4th ed., 2004
EN0020	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0097	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B
EN0102	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

——— END OF REPORT ———

Signatories

Siriluk Bunnak, Section Head, 1-204-c-0013

Kanokkorn Anek, Assistant General Manager, 1-204-e-0004

Analysis Report

TESTING No.0009

Work Order	BK2537507	Date Received	Nov 04, 2025
Client	WHA Utilities and Power Public Company Limited 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported	Nov 11, 2025
Project	WHA SIL	Report Number	BK2537507-AA
Project Location	Siam Furukawa Co.,Ltd._31_WWT_WHASIL_010_2560		

Sample Number	BK2537507-001
Sampled Date	Nov 04, 2025 01:15 PM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	Siam Furukawa Co.,Ltd.
Contract ID	WWT_WHASIL_010_2560
Plot	31
Date of Analysis	Nov 05, 2025
Sampled by	Panupong Saensri (1-204-c-0204)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H_2SO_4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, strong odour, lots of solids, highly turbid

Analytical Results

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	15.5	≤500	EN0044	Bangkok
COD	mg/L	-	25	116	≤750	EN0046	Bangkok
Oil & Grease	mg/L	-	3	3	≤10	EN0048	Bangkok
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.6	5.5-9	EN0020	Bangkok
Temperature *	°C	-	-	25.8	≤45	EN0097	Bangkok
Total Suspended Solids	mg/L	-	5	27	≤200	EN0102	Bangkok

Guideline : Industrial Land on Criteria of wastewater discharging to central wastewater treatment plant

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

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

Signatories

Siriluk Bunnak, Section Head, 1-204-c-0013

Kanokkorn Anek, Assistant General Manager, 1-204-e-0004

Analysis Report

TESTING No.0009

Work Order	BK2537507	Date Received :	Nov 04, 2025
Client	WHA Utilities and Power Public Company Limited, 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported :	Nov 11, 2025
Project	WHA SIL	Report Number :	BK2537507-AA
Project Location	Siam Furukawa Co.,Ltd._31_ WWT_WHASIL_010_2560		

Sample Number	BK2537507-001
Sampled Date	Nov 04, 2025 01:15 PM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	Siam Furukawa Co.,Ltd.
Contract ID	WWT_WHASIL_010_2560
Plot	31
Date of Analysis	Nov 05, 2025
Sampled by	Panupong Saenot (1-204-s-0204)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H_2SO_4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, strong odour, lots of solids, highly turbid

Brief Method Summaries

The methods in the analysis report are short format, refer to full test methods in accordance with the ISO/IEC 17025 certificate no. specified in the analysis report.

Method	Testing Lab	Method Descriptions
EN0020	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0097	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B
EN0102	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

—— END OF REPORT ——

Signatories

Sirikik Bunnak, Section Head, 1-204-s-0013 — Karokkorn Anek, Assistant General Manager, 1-204-e-0004

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

ALS Laboratory Group (Thailand) Co.,Ltd. Bangkok Life Sciences

Analysis Report

TESTING No.0009

Work Order	BK2537508	Date Received :	Nov 04, 2025
Client	WHA Utilities and Power Public Company Limited, 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported :	Nov 11, 2025
Project	WHA SIL	Report Number :	BK2537508-AA
Project Location	Siam Furukawa Co.,Ltd._55_ WWT_WHASIL_022_2564		

Sample Number	BK2537508-001
Sampled Date	Nov 04, 2025 01:10 PM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	Siam Furukawa Co.,Ltd.
Contract ID	WWT_WHASIL_022_2564
Plot	55
Date of Analysis	Nov 05, 2025
Sampled by	Panupong Saenot (1-204-s-0204)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H_2SO_4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, strong odour, lots of solids, highly turbid

Analytical Results

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	108	≤500	EN0044	Bangkok
COD	mg/L	-	25	198	≤750	EN0046	Bangkok
Oil & Grease	mg/L	-	3	8	≤10	EN0048	Bangkok
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	6.0	5.5-9	EN0020	Bangkok
Temperature *	°C	-	-	30.2	≤40	EN0097	Bangkok
Total Suspended Solids	mg/L	-	5	44	≤200	EN0102	Bangkok

Guideline : Industrial Land on Criteria of wastewater discharging to central wastewater treatment plant

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

Key :
- 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

Signatories

Sirikik Bunnak, Section Head, 1-204-s-0013 — Karokkorn Anek, Assistant General Manager, 1-204-e-0004

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

ALS Laboratory Group (Thailand) Co.,Ltd. Bangkok Life Sciences

Analysis Report

TESTING No.0009

Work Order	BK2537508	Date Received :	Nov 04, 2025
Client	WHA Utilities and Power Public Company Limited, 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported :	Nov 11, 2025
Project	WHA SIL	Report Number :	BK2537508-AA
Project Location	Siam Furukawa Co.,Ltd._55_ WWT_WHASIL_022_2564		

Sample Number	BK2537508-001
Sampled Date	Nov 04, 2025 01:10 PM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	Siam Furukawa Co.,Ltd.
Contract ID	WWT_WHASIL_022_2564
Plot	55
Date of Analysis	Nov 05, 2025
Sampled by	Panupong Saenot (1-204-s-0204)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H_2SO_4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, strong odour, lots of solids, highly turbid

Brief Method Summaries

The methods in the analysis report are short format, refer to full test methods in accordance with the ISO/IEC 17025 certificate no. specified in the analysis report.

Method	Testing Lab	Method Descriptions
EN0020	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0097	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B
EN0102	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

—— END OF REPORT ——

Signatories

Sirikik Bunnak, Section Head, 1-204-s-0013 — Karokkorn Anek, Assistant General Manager, 1-204-e-0004

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

ALS Laboratory Group (Thailand) Co.,Ltd. Bangkok Life Sciences

Analysis Report

TESTING No.0009

Work Order	BK2537509	Date Received :	Nov 10, 2025
Client	WHA Utilities and Power Public Company Limited, 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported :	Nov 17, 2025
Project	WHA SIL	Report Number :	BK2537509-AA
Project Location	Siam Furukawa Co.,Ltd. (2nd)_69_ WWT_WHASIL_060_2564		

Sample Number	BK2537509-001
Sampled Date	Nov 10, 2025 09:20 AM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	Siam Furukawa Co.,Ltd. (2nd)
Contract ID	WWT_WHASIL_060_2564
Plot	69
Date of Analysis	Nov 11, 2025
Sampled by	Panupong Saenot (1-204-s-0204)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H_2SO_4, 1x Oil & Grease, 1x Plastic Bottle - Preserved with HNO_3, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, some odour, some solids, no turbidity

Analytical Results

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	2.3	≤500	EN0044	Bangkok
COD	mg/L	-	25	<25	≤750	EN0046	Bangkok
Oil & Grease	mg/L	-	3	<3	≤10	EN0048	Bangkok
Metals and Major Cations - Total							
Lead	mg/L	0.0003	0.0008	0.0216	≤0.2	ME0002	Bangkok
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	5.8	5.5-9	EN0020	Bangkok
Temperature *	°C	-	-	29.8	≤40	EN0097	Bangkok
Total Dissolved Solids at 180°C	mg/L	-	5	888	≤3000	EN0100	Bangkok
Total Suspended Solids	mg/L	-	5	<5	≤200	EN0102	Bangkok

Guideline : Industrial Land on Criteria of wastewater discharging to central wastewater treatment plant

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

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

Signatories

Sirikik Bunnak, Section Head, 1-204-s-0013 — Karokkorn Anek, Assistant General Manager, 1-204-e-0004

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

ALS Laboratory Group (Thailand) Co.,Ltd. Bangkok Life Sciences

Analysis Report

TESTING No.0009

Work Order	BK2537509	Date Received :	Nov 10, 2025
Client	WHA Utilities and Power Public Company Limited, 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported :	Nov 17, 2025
Project	WHA SIL	Report Number :	BK2537509-AA
Project Location	Siam Furukawa Co.,Ltd. (2nd)_69_ WWT_WHASIL_060_2564		

Sample Number	BK2537509-001
Sampled Date	Nov 10, 2025 09:20 AM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	Siam Furukawa Co.,Ltd. (2nd)
Contract ID	WWT_WHASIL_060_2564
Plot	69
Date of Analysis	Nov 11, 2025
Sampled by	Panupong Saenot (1-204-s-0204)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H_2SO_4, 1x Oil & Grease, 1x Plastic Bottle - Preserved with HNO_3, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, some odour, some solids, no turbidity

Brief Method Summaries

The methods in the analysis report are short format, refer to full test methods in accordance with the ISO/IEC 17025 certificate no. specified in the analysis report.

Method	Testing Lab	Method Descriptions
EN0020	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0097	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B
EN0100	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C
EN0102	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D
ME0002	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F

—— END OF REPORT ——

Signatories

Sirikik Bunnak, Section Head, 1-204-s-0013 — Karokkorn Anek, Assistant General Manager, 1-204-e-0004

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

ALS Laboratory Group (Thailand) Co.,Ltd. Bangkok Life Sciences

Analysis Report

TESTING No.0009

Work Order	BK2537510	Date Received :	Nov 04, 2025
Client	WHA Utilities and Power Public Company Limited, 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported :	Nov 11, 2025
Project	WHA SIL	Report Number :	BK2537510-AA
Project Location	Siam Furukawa Co.,Ltd.(1st)_69_ WWT_WHASIL_060_2564		

Sample Number	BK2537510-001
Sampled Date	Nov 04, 2025 01:25 PM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	Siam Furukawa Co.,Ltd.(1st)
Contract ID	WWT_WHASIL_060_2564
Plot	69
Date of Analysis	Nov 05, 2025
Sampled by	Panupong Saenot (1-204-s-0204)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H_2SO_4, 1x Oil & Grease, 1x Logsheet data, 1x Plastic Bottle - Preserved with HNO_3, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, some odour, some solids, no turbidity

Analytical Results

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	2.2	≤500	EN0044	Bangkok
COD	mg/L	-	25	<25	≤750	EN0046	Bangkok
Oil & Grease	mg/L	-	3	<3	≤10	EN0048	Bangkok
Metals and Major Cations - Total							
Lead	mg/L	0.0003	0.0008	0.0175	≤0.2	ME0002	Bangkok
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.8	5.5-9	EN0020	Bangkok
Temperature *	°C	-	-	28.7	≤40	EN0097	Bangkok
Total Dissolved Solids at 180°C	mg/L	-	5	1130	≤3000	EN0100	Bangkok
Total Suspended Solids	mg/L	-	5	<5	≤200	EN0102	Bangkok

Guideline : Industrial Land on Criteria of wastewater discharging to central wastewater treatment plant

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

Key :
- 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

Signatories

Sirikik Bunnak, Section Head, 1-204-s-0013 — Karokkorn Anek, Assistant General Manager, 1-204-e-0004

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ALS Laboratory Group (Thailand) Co.,Ltd. Bangkok Life Sciences

Analysis Report

TESTING No.0009

Work Order	BK2537510	Date Received :	Nov 04, 2025
Client	WHA Utilities and Power Public Company Limited, 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported :	Nov 11, 2025
Project	WHA SIL	Report Number :	BK2537510-AA
Project Location	Siam Furukawa Co.,Ltd.(1st)_69_ WWT_WHASIL_060_2564		

Sample Number	BK2537510-001
Sampled Date	Nov 04, 2025 01:25 PM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	Siam Furukawa Co.,Ltd.(1st)
Contract ID	WWT_WHASIL_060_2564
Plot	69
Date of Analysis	Nov 05, 2025
Sampled by	Panupong Saenot (1-204-s-0204)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H_2SO_4, 1x Oil & Grease, 1x Logsheet data, 1x Plastic Bottle - Preserved with HNO_3, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, some odour, some solids, no turbidity

Brief Method Summaries

The methods in the analysis report are short format, refer to full test methods in accordance with the ISO/IEC 17025 certificate no. specified in the analysis report.

Method	Testing Lab	Method Descriptions
EN0020	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0097	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B
EN0100	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C
EN0102	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D
ME0002	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F

—— END OF REPORT ——

Signatories

Sirikik Bunnak, Section Head, 1-204-s-0013 — Karokkorn Anek, Assistant General Manager, 1-204-e-0004

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ALS Laboratory Group (Thailand) Co.,Ltd. Bangkok Life Sciences

Analysis Report

TESTING No.0009

Work Order	BK2537511	Date Received :	Nov 07, 2025
Client	WHA Utilities and Power Public Company Limited, 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported :	Nov 18, 2025
Project	WHA SIL	Report Number :	BK2537511-AA (1)
Project Location	Siam Gypsum Industry (Saraburi) Co.,Ltd._9,15_ WWT_WHASIL_018_2564		

Sample Number	BK2537511-001
Sampled Date	Nov 07, 2025 09:30 AM
Sample Name	Group 2 Wastewater WW-CT : Factory 1
Sampling Site	Siam Gypsum Industry (Saraburi) Co.,Ltd.
Contract ID	WWT_WHASIL_018_2564
Plot	9,15
Date of Analysis	Nov 08, 2025
Sampled by	Panupong Saenot (1-204-s-0204)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H_2SO_4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, some odour, some solids, no turbidity

Analytical Results

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	<2.0	≤500	EN0044	Bangkok
COD	mg/L	-	25	<25	≤750	EN0046	Bangkok
Oil & Grease	mg/L	-	3	<3	≤10	EN0048	Bangkok
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.7	5.5-9	EN0020	Bangkok
Temperature *	°C	-	-	28.8	≤40	EN0097	Bangkok
Total Suspended Solids	mg/L	-	5	<5	≤200	EN0102	Bangkok

Guideline : Industrial Land on Criteria of wastewater discharging to central wastewater treatment plant

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

Key :
- 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

Signatories

Sirikik Bunnak, Section Head, 1-204-s-0013 — Karokkorn Anek, Assistant General Manager, 1-204-e-0004

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ALS Laboratory Group (Thailand) Co.,Ltd. Bangkok Life Sciences

Analysis Report

TESTING No.0009

Work Order	BK2537511	Date Received :	Nov 07, 2025
Client	WHA Utilities and Power Public Company Limited, 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported :	Nov 18, 2025
Project	WHA SIL	Report Number :	BK2537511-AA (1)
Project Location	Siam Gypsum Industry (Saraburi) Co.,Ltd._9,15_ WWT_WHASIL_018_2564		

Sample Number	BK2537511-001
Sampled Date	Nov 07, 2025 09:30 AM
Sample Name	Group 2 Wastewater WW-CT : Factory 1
Sampling Site	Siam Gypsum Industry (Saraburi) Co.,Ltd.
Contract ID	WWT_WHASIL_018_2564
Plot	9,15
Date of Analysis	Nov 08, 2025
Sampled by	Panupong Saenot (1-204-s-0204)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H_2SO_4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, some odour, some solids, no turbidity

Brief Method Summaries

The methods in the analysis report are short format, refer to full test methods in accordance with the ISO/IEC 17025 certificate no. specified in the analysis report.

Method	Testing Lab	Method Descriptions
EN0020	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0097	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B
EN0102	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

—— END OF REPORT ——

Signatories

Sirikik Bunnak, Section Head, 1-204-s-0013 — Karokkorn Anek, Assistant General Manager, 1-204-e-0004

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ALS Laboratory Group (Thailand) Co.,Ltd. Bangkok Life Sciences

Analysis Report

TESTING No.0009

Work Order	BK2537512	Date Received	Nov 07, 2025
Client	WHA Utilities and Power Public Company Limited, 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported	Nov 18, 2025
Project	WHA SIL	Report Number	BK2537512-AA (1)
Project Location	Siam Gypsum Industry (Saraburi) Co.,Ltd._42,79,98_WWT_WHASIL_017_2554		

Sample Number	BK2537512-001
Sampled Date	Nov 07, 2025 10:30 AM
Sample Name	Group 2 Wastewater WW-CT : Factory 2
Sampling Site	Siam Gypsum Industry (Saraburi) Co.,Ltd.
Contract ID	WWT_WHASIL_017_2554
Plot	42,79,98
Date of Analysis	Nov 08, 2025
Sampled by	Panupong Saenot (1-204-c-0204)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H_2SO_4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, strong odour, lots of solids, highly turbid

Analytical Results

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	33.7	≤500	EN0044	Bangkok
COD	mg/L	-	25	187	≤750	EN0046	Bangkok
Oil & Grease	mg/L	-	3	<3	≤10	EN0048	Bangkok
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.6	5.5-9	EN0020	Bangkok
Temperature *	°C	-	-	29.8	≤45	EN0097	Bangkok
Total Suspended Solids	mg/L	-	5	121	≤200	EN0102	Bangkok

Guideline : Industrial Land on Criteria of wastewater discharging to central wastewater treatment plant

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

Key :
- 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

Signatories

Sirilak Bunnak	Kanokkorn Anek
Section Head	Assistant General Manager
1-204-c-0013	1-204-e-0004

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ALS Laboratory Group (Thailand) Co.,Ltd. Bangkok Life Sciences

Analysis Report

TESTING No.0009

Work Order	BK2537512	Date Received	Nov 07, 2025
Client	WHA Utilities and Power Public Company Limited, 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported	Nov 18, 2025
Project	WHA SIL	Report Number	BK2537512-AA (1)
Project Location	Siam Gypsum Industry (Saraburi) Co.,Ltd._42,79,98_WWT_WHASIL_017_2554		

Sample Number	BK2537512-001
Sampled Date	Nov 07, 2025 10:30 AM
Sample Name	Group 2 Wastewater WW-CT : Factory 2
Sampling Site	Siam Gypsum Industry (Saraburi) Co.,Ltd.
Contract ID	WWT_WHASIL_017_2554
Plot	42,79,98
Date of Analysis	Nov 08, 2025
Sampled by	Panupong Saenot (1-204-c-0204)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H_2SO_4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, strong odour, lots of solids, highly turbid

Brief Method Summaries

The methods in the analysis report are short format, refer to full test methods in accordance with the ISO/IEC 17025 certificate no. specified in the analysis report.

Method	Testing Lab	Method Descriptions
EN0020	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0097	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B
EN0102	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

—— END OF REPORT ——

Signatories

Sirilak Bunnak	Kanokkorn Anek
Section Head	Assistant General Manager
1-204-c-0013	1-204-e-0004

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ALS Laboratory Group (Thailand) Co.,Ltd. Bangkok Life Sciences

Analysis Report

TESTING No.0009

Work Order	BK2537513	Date Received	Nov 10, 2025
Client	WHA Utilities and Power Public Company Limited, 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported	Nov 18, 2025
Project	WHA SIL	Report Number	BK2537513-AA
Project Location	Siam Hanamaruki Co.,Ltd._83_WWT_WHASIL_006_2562		

Sample Number	BK2537513-001
Sampled Date	Nov 10, 2025 10:40 AM
Sample Name	Group 2 Wastewater WW-CT : (tstd 59)
Sampling Site	Siam Hanamaruki Co.,Ltd.
Contract ID	WWT_WHASIL_006_2562
Plot	83
Date of Analysis	Nov 11, 2025
Sampled by	Panupong Saenot (1-204-c-0204)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H_2SO_4, 1x Oil & Grease, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, strong odour, some solids, highly turbid

Analytical Results

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	151	≤500	EN0044	Bangkok
COD	mg/L	-	25	1226	≤750	EN0046	Bangkok
Oil & Grease	mg/L	-	3	7	≤10	EN0048	Bangkok
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	6.9	5.5-9	EN0020	Bangkok
Temperature *	°C	-	-	30.7	≤45	EN0097	Bangkok
Total Suspended Solids	mg/L	-	5	101	≤200	EN0102	Bangkok

Guideline : Industrial Land on Criteria of wastewater discharging to central wastewater treatment plant

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

Key :
- 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

Signatories

Narthawadee Somboon	Kanokkorn Anek
Specialist 2	Assistant General Manager
1-204-c-0010	1-204-e-0004

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ALS Laboratory Group (Thailand) Co.,Ltd. Bangkok Life Sciences

Analysis Report

TESTING No.0009

Work Order	BK2537513	Date Received	Nov 10, 2025
Client	WHA Utilities and Power Public Company Limited, 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported	Nov 18, 2025
Project	WHA SIL	Report Number	BK2537513-AA
Project Location	Siam Hanamaruki Co.,Ltd._83_WWT_WHASIL_006_2562		

Sample Number	BK2537513-001
Sampled Date	Nov 10, 2025 10:40 AM
Sample Name	Group 2 Wastewater WW-CT : (tstd 59)
Sampling Site	Siam Hanamaruki Co.,Ltd.
Contract ID	WWT_WHASIL_006_2562
Plot	83
Date of Analysis	Nov 11, 2025
Sampled by	Panupong Saenot (1-204-c-0204)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H_2SO_4, 1x Oil & Grease, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, strong odour, some solids, highly turbid

Brief Method Summaries

The methods in the analysis report are short format, refer to full test methods in accordance with the ISO/IEC 17025 certificate no. specified in the analysis report.

Method	Testing Lab	Method Descriptions
EN0020	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0097	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B
EN0102	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

—— END OF REPORT ——

Signatories

Narthawadee Somboon	Kanokkorn Anek
Specialist 2	Assistant General Manager
1-204-c-0010	1-204-e-0004

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ALS Laboratory Group (Thailand) Co.,Ltd. Bangkok Life Sciences

Analysis Report

TESTING No.0009

Work Order	BK2537514	Date Received	Nov 06, 2025
Client	WHA Utilities and Power Public Company Limited, 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported	Nov 18, 2025
Project	WHA SIL	Report Number	BK2537514-AA (1)
Project Location	Siam NGK Technocera Co.,Ltd._74_WWT_WHASIL_020_2554		

Sample Number	BK2537514-001
Sampled Date	Nov 06, 2025 11:45 AM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	Siam NGK Technocera Co.,Ltd.
Contract ID	WWT_WHASIL_020_2554
Plot	74
Date of Analysis	Nov 06, 2025
Sampled by	Panupong Saenot (1-204-c-0204)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H_2SO_4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, some odour, some solids, no turbidity

Analytical Results

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	5.1	≤500	EN0044	Bangkok
COD	mg/L	-	25	66	≤750	EN0046	Bangkok
Oil & Grease	mg/L	-	3	<3	≤10	EN0048	Bangkok
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.4	5.5-9	EN0020	Bangkok
Temperature *	°C	-	-	30.1	≤45	EN0097	Bangkok
Total Suspended Solids	mg/L	-	5	32	≤200	EN0102	Bangkok

Guideline : Industrial Land on Criteria of wastewater discharging to central wastewater treatment plant

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

Key :
- 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

Signatories

Sirilak Bunnak	Kanokkorn Anek
Section Head	Assistant General Manager
1-204-c-0013	1-204-e-0004

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ALS Laboratory Group (Thailand) Co.,Ltd. Bangkok Life Sciences

Analysis Report

TESTING No.0009

Work Order	BK2537514	Date Received	Nov 06, 2025
Client	WHA Utilities and Power Public Company Limited, 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported	Nov 18, 2025
Project	WHA SIL	Report Number	BK2537514-AA (1)
Project Location	Siam NGK Technocera Co.,Ltd._74_WWT_WHASIL_020_2554		

Sample Number	BK2537514-001
Sampled Date	Nov 06, 2025 11:45 AM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	Siam NGK Technocera Co.,Ltd.
Contract ID	WWT_WHASIL_020_2554
Plot	74
Date of Analysis	Nov 06, 2025
Sampled by	Panupong Saenot (1-204-c-0204)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H_2SO_4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, some odour, some solids, no turbidity

Brief Method Summaries

The methods in the analysis report are short format, refer to full test methods in accordance with the ISO/IEC 17025 certificate no. specified in the analysis report.

Method	Testing Lab	Method Descriptions
EN0020	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0097	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B
EN0102	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

—— END OF REPORT ——

Signatories

Sirilak Bunnak	Kanokkorn Anek
Section Head	Assistant General Manager
1-204-c-0013	1-204-e-0004

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.

ALS Laboratory Group (Thailand) Co.,Ltd. Bangkok Life Sciences

Analysis Report

TESTING No.0009

Work Order	BK2537515	Date Received	Nov 07, 2025
Client	WHA Utilities and Power Public Company Limited, 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported	Nov 18, 2025
Project	WHA SIL	Report Number	BK2537515-AA (1)
Project Location	Siam Tosu Ceramics Co.,Ltd._98_WWT_WHASIL_021_2554		

Sample Number	BK2537515-001
Sampled Date	Nov 07, 2025 09:50 AM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	Siam Tosu Ceramics Co.,Ltd.
Contract ID	WWT_WHASIL_021_2554
Plot	98
Date of Analysis	Nov 08, 2025
Sampled by	Panupong Saenot (1-204-c-0204)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H_2SO_4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, some odour, some solids, highly turbid

Analytical Results

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	4.5	≤500	EN0044	Bangkok
COD	mg/L	-	25	26	≤750	EN0046	Bangkok
Oil & Grease	mg/L	-	3	<3	≤10	EN0048	Bangkok
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.8	5.5-9	EN0020	Bangkok
Temperature *	°C	-	-	28.3	≤45	EN0097	Bangkok
Total Suspended Solids	mg/L	-	5	45	≤200	EN0102	Bangkok

Guideline : Industrial Land on Criteria of wastewater discharging to central wastewater treatment plant

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

Key :
- 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

Signatories

Sirilak Bunnak	Kanokkorn Anek
Section Head	Assistant General Manager
1-204-c-0013	1-204-e-0004

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.

ALS Laboratory Group (Thailand) Co.,Ltd. Bangkok Life Sciences

Analysis Report

TESTING No.0009

Work Order	BK2537515	Date Received	Nov 07, 2025
Client	WHA Utilities and Power Public Company Limited, 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported	Nov 18, 2025
Project	WHA SIL	Report Number	BK2537515-AA (1)
Project Location	Siam Tosu Ceramics Co.,Ltd._98_WWT_WHASIL_021_2554		

Sample Number	BK2537515-001
Sampled Date	Nov 07, 2025 09:50 AM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	Siam Tosu Ceramics Co.,Ltd.
Contract ID	WWT_WHASIL_021_2554
Plot	98
Date of Analysis	Nov 08, 2025
Sampled by	Panupong Saenot (1-204-c-0204)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H_2SO_4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, some odour, some solids, highly turbid

Brief Method Summaries

The methods in the analysis report are short format, refer to full test methods in accordance with the ISO/IEC 17025 certificate no. specified in the analysis report.

Method	Testing Lab	Method Descriptions
EN0020	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0097	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B
EN0102	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

—— END OF REPORT ——

Signatories

Sirilak Bunnak	Kanokkorn Anek
Section Head	Assistant General Manager
1-204-c-0013	1-204-e-0004

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ALS Laboratory Group (Thailand) Co.,Ltd. Bangkok Life Sciences

Analysis Report

TESTING No.0009

Work Order	BK2537516	Date Received	Nov 12, 2025
Client	WHA Utilities and Power Public Company Limited, 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported	Nov 18, 2025
Project	WHA SIL	Report Number	BK2537516-AA
Project Location	SLK (Thailand) Co.,Ltd._132_WWT_WHASIL_046_2556		

Sample Number	BK2537516-001
Sampled Date	Nov 12, 2025 10:15 AM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	SLK (Thailand) Co.,Ltd.
Contract ID	WWT_WHASIL_046_2556
Plot	132
Date of Analysis	Nov 13, 2025
Sampled by	Panupong Saenot (1-204-c-0204)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H_2SO_4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, some odour, lots of solids, turbid

Analytical Results

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	17.2	≤500	EN0044	Bangkok
COD	mg/L	-	25	65	≤750	EN0046	Bangkok
Oil & Grease	mg/L	-	3	3	≤10	EN0048	Bangkok
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.7	5.5-9	EN0020	Bangkok
Temperature *	°C	-	-	32.4	≤45	EN0097	Bangkok
Total Suspended Solids	mg/L	-	5	21	≤200	EN0102	Bangkok

Guideline : Industrial Land on Criteria of wastewater discharging to central wastewater treatment plant

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

Key :
- 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

Signatories

Narthawadee Somboon	Kanokkorn Anek
Specialist 2	Assistant General Manager
1-204-c-0010	1-204-e-0004

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.

ALS Laboratory Group (Thailand) Co.,Ltd. Bangkok Life Sciences

Analysis Report

TESTING No.0009

Work Order	BK2537516	Date Received :	Nov 12, 2025
Client	WHA Utilities and Power Public Company Limited 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported :	Nov 18, 2025
Project	WHA SIL	Report Number :	BK2537516-AA
Project Location	SLIK (Thailand) Co.,Ltd._132_ WWT_WHASIL_048_2568		

Sample Number	BK2537516-001
Sampled Date	Nov 12, 2025 10:15 AM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	SLIK (Thailand) Co.,Ltd.
Contract ID	WWT_WHASIL_048_2568
Plot	132
Date of Analysis	Nov 13, 2025
Sampled by	Panupong Saenot (1-204-c-0204)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, some odour, lots of solids, turbid

Brief Method Summaries

The methods in the analysis report are short format, refer to full test methods in accordance with the ISO/IEC 17025 certificate no. specified in the analysis report.

Method	Testing Lab	Method Descriptions
EN0020	Bangkok	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Bangkok	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Bangkok	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Bangkok	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0097	Bangkok	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 2550 B
EN0102	Bangkok	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

——— END OF REPORT ———

Signatories

Nanthawadee Somboon	Kanokkorn Anek
Specialist 2	Assistant General Manager
1-204-c-0010	1-204-e-0004

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

Analysis Report

TESTING No.0009

Work Order	BK2537518	Date Received :	Nov 12, 2025
Client	WHA Utilities and Power Public Company Limited 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported :	Nov 18, 2025
Project	WHA SIL	Report Number :	BK2537518-AA
Project Location	TERAHOP (THAILAND) CO., LTD._139-140_ WWT_WHASIL_003_2568		

Sample Number	BK2537518-001
Sampled Date	Nov 12, 2025 01:10 PM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	TERAHOP (THAILAND) CO., LTD.
Contract ID	WWT_WHASIL_003_2568
Plot	139-140
Date of Analysis	Nov 13, 2025
Sampled by	Panupong Saenot (1-204-c-0204)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, strong odour, some solids, highly turbid

Analytical Results

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	196	≤500	EN0044	Bangkok
COD	mg/L	-	25	527	≤750	EN0046	Bangkok
Oil & Grease	mg/L	-	3	12	≤10	EN0048	Bangkok
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.4	5.5-9	EN0020	Bangkok
Temperature *	°C	-	-	31.1	≤40	EN0097	Bangkok
Total Suspended Solids	mg/L	-	5	144	≤200	EN0102	Bangkok

Guideline : Industrial Land on Criteria of wastewater discharging to central wastewater treatment plant

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

Key :
- 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

Signatories

Nanthawadee Somboon	Kanokkorn Anek
Specialist 2	Assistant General Manager
1-204-c-0010	1-204-e-0004

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Analysis Report

TESTING No.0009

Work Order	BK2537518	Date Received :	Nov 12, 2025
Client	WHA Utilities and Power Public Company Limited 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported :	Nov 18, 2025
Project	WHA SIL	Report Number :	BK2537518-AA
Project Location	TERAHOP (THAILAND) CO., LTD._139-140_ WWT_WHASIL_003_2568		

Sample Number	BK2537518-001
Sampled Date	Nov 12, 2025 01:10 PM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	TERAHOP (THAILAND) CO., LTD.
Contract ID	WWT_WHASIL_003_2568
Plot	139-140
Date of Analysis	Nov 13, 2025
Sampled by	Panupong Saenot (1-204-c-0204)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, strong odour, some solids, highly turbid

Brief Method Summaries

The methods in the analysis report are short format, refer to full test methods in accordance with the ISO/IEC 17025 certificate no. specified in the analysis report.

Method	Testing Lab	Method Descriptions
EN0020	Bangkok	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Bangkok	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Bangkok	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Bangkok	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0097	Bangkok	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 2550 B
EN0102	Bangkok	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

——— END OF REPORT ———

Signatories

Nanthawadee Somboon	Kanokkorn Anek
Specialist 2	Assistant General Manager
1-204-c-0010	1-204-e-0004

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

Analysis Report

TESTING No.0009

Work Order	BK2537523	Date Received :	Nov 11, 2025
Client	WHA Utilities and Power Public Company Limited 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported :	Nov 18, 2025
Project	WHA SIL	Report Number :	BK2537523-AA
Project Location	Thai Beverage Can Co.,Ltd._23_ WWT_WHASIL_024_2564		

Sample Number	BK2537523-001
Sampled Date	Nov 11, 2025 01:30 PM
Sample Name	Group 2 Wastewater WW-CT : Point 2
Sampling Site	Thai Beverage Can Co.,Ltd.
Contract ID	WWT_WHASIL_024_2564
Plot	23
Date of Analysis	Nov 12, 2025
Sampled by	Teerasak Puangsuk (1-204-c-0061)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	colourless, odourless, no solids, no turbidity

Analytical Results

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	3.8	≤500	EN0044	Bangkok
COD	mg/L	-	25	47	≤750	EN0046	Bangkok
Oil & Grease	mg/L	-	3	<3	≤10	EN0048	Bangkok
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	8.0	5.5-9	EN0020	Bangkok
Temperature *	°C	-	-	31.3	≤40	EN0097	Bangkok
Total Suspended Solids	mg/L	-	5	<5	≤200	EN0102	Bangkok

Guideline : Industrial Land on Criteria of wastewater discharging to central wastewater treatment plant

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

Key :
- 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

Signatories

Sirluk Bunnak	Kanokkorn Anek
Section Head	Assistant General Manager
1-204-c-0013	1-204-e-0004

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Analysis Report

TESTING No.0009

Work Order	BK2537523	Date Received :	Nov 11, 2025
Client	WHA Utilities and Power Public Company Limited 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported :	Nov 18, 2025
Project	WHA SIL	Report Number :	BK2537523-AA
Project Location	Thai Beverage Can Co.,Ltd._23_ WWT_WHASIL_024_2564		

Sample Number	BK2537523-001
Sampled Date	Nov 11, 2025 01:30 PM
Sample Name	Group 2 Wastewater WW-CT : Point 2
Sampling Site	Thai Beverage Can Co.,Ltd.
Contract ID	WWT_WHASIL_024_2564
Plot	23
Date of Analysis	Nov 12, 2025
Sampled by	Teerasak Puangsuk (1-204-c-0061)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	colourless, odourless, no solids, no turbidity

Brief Method Summaries

The methods in the analysis report are short format, refer to full test methods in accordance with the ISO/IEC 17025 certificate no. specified in the analysis report.

Method	Testing Lab	Method Descriptions
EN0020	Bangkok	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Bangkok	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Bangkok	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Bangkok	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0097	Bangkok	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 2550 B
EN0102	Bangkok	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

——— END OF REPORT ———

Signatories

Sirluk Bunnak	Kanokkorn Anek
Section Head	Assistant General Manager
1-204-c-0013	1-204-e-0004

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

Analysis Report

TESTING No.0009

Work Order	BK2537524	Date Received :	Nov 11, 2025
Client	WHA Utilities and Power Public Company Limited 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported :	Nov 18, 2025
Project	WHA SIL	Report Number :	BK2537524-AA
Project Location	Thai Beverage Can Co.,Ltd._25_ WWT_WHASIL_013_2566		

Sample Number	BK2537524-001
Sampled Date	Nov 11, 2025 01:40 PM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	Thai Beverage Can Co.,Ltd.
Contract ID	WWT_WHASIL_013_2566
Plot	25
Date of Analysis	Nov 12, 2025
Sampled by	Teerasak Puangsuk (1-204-c-0061)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	colourless, odourless, no solids, no turbidity

Analytical Results

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	<2.0	≤500	EN0044	Bangkok
COD	mg/L	-	25	40	≤750	EN0046	Bangkok
Oil & Grease	mg/L	-	3	<3	≤10	EN0048	Bangkok
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	8.2	5.5-9	EN0020	Bangkok
Temperature *	°C	-	-	31.8	≤40	EN0097	Bangkok
Total Suspended Solids	mg/L	-	5	<5	≤200	EN0102	Bangkok

Guideline : Industrial Land on Criteria of wastewater discharging to central wastewater treatment plant

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

Key :
- 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

Signatories

Sirluk Bunnak	Kanokkorn Anek
Section Head	Assistant General Manager
1-204-c-0013	1-204-e-0004

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Analysis Report

TESTING No.0009

Work Order	BK2537524	Date Received :	Nov 11, 2025
Client	WHA Utilities and Power Public Company Limited 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported :	Nov 18, 2025
Project	WHA SIL	Report Number :	BK2537524-AA
Project Location	Thai Beverage Can Co.,Ltd._25_ WWT_WHASIL_013_2566		

Sample Number	BK2537524-001
Sampled Date	Nov 11, 2025 01:40 PM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	Thai Beverage Can Co.,Ltd.
Contract ID	WWT_WHASIL_013_2566
Plot	25
Date of Analysis	Nov 12, 2025
Sampled by	Teerasak Puangsuk (1-204-c-0061)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	colourless, odourless, no solids, no turbidity

Brief Method Summaries

The methods in the analysis report are short format, refer to full test methods in accordance with the ISO/IEC 17025 certificate no. specified in the analysis report.

Method	Testing Lab	Method Descriptions
EN0020	Bangkok	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Bangkok	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Bangkok	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Bangkok	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0097	Bangkok	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 2550 B
EN0102	Bangkok	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

——— END OF REPORT ———

Signatories

Sirluk Bunnak	Kanokkorn Anek
Section Head	Assistant General Manager
1-204-c-0013	1-204-e-0004

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

Analysis Report

TESTING No.0009

Work Order	BK2537525	Date Received :	Nov 12, 2025
Client	WHA Utilities and Power Public Company Limited 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported :	Nov 18, 2025
Project	WHA SIL	Report Number :	BK2537525-AA
Project Location	Thai Inaba Foods (Thailand) Co., Ltd._138/1_ WWT_WHASIL_001_2567		

Sample Number	BK2537525-001
Sampled Date	Nov 12, 2025 10:10 AM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	Thai Inaba Foods (Thailand) Co., Ltd.
Contract ID	WWT_WHASIL_001_2567
Plot	138/1
Date of Analysis	Nov 13, 2025
Sampled by	Panupong Saenot (1-204-c-0204)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, strong odour, lots of solids, highly turbid

Analytical Results

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	181	≤500	EN0044	Bangkok
COD	mg/L	-	25	302	≤750	EN0046	Bangkok
Oil & Grease	mg/L	-	3	10	≤10	EN0048	Bangkok
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.8	5.5-9	EN0020	Bangkok
Temperature *	°C	-	-	31.6	≤40	EN0097	Bangkok
Total Suspended Solids	mg/L	-	5	75	≤200	EN0102	Bangkok

Guideline : Industrial Land on Criteria of wastewater discharging to central wastewater treatment plant

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

Key :
- 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

Signatories

Nanthawadee Somboon	Kanokkorn Anek
Specialist 2	Assistant General Manager
1-204-c-0010	1-204-e-0004

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

Analysis Report

TESTING No.0009

Work Order	BK2537525	Date Received :	Nov 12, 2025
Client	WHA Utilities and Power Public Company Limited 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported :	Nov 18, 2025
Project	WHA SIL	Report Number :	BK2537525-AA
Project Location	Thai Inaba Foods (Thailand) Co., Ltd._138/1_ WWT_WHASIL_001_2567		

Sample Number	BK2537525-001
Sampled Date	Nov 12, 2025 10:10 AM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	Thai Inaba Foods (Thailand) Co., Ltd.
Contract ID	WWT_WHASIL_001_2567
Plot	138/1
Date of Analysis	Nov 13, 2025
Sampled by	Panupong Saenot (1-204-c-0204)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, strong odour, lots of solids, highly turbid

Brief Method Summaries

The methods in the analysis report are short format, refer to full test methods in accordance with the ISO/IEC 17025 certificate no. specified in the analysis report.

Method	Testing Lab	Method Descriptions
EN0020	Bangkok	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Bangkok	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Bangkok	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Bangkok	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0097	Bangkok	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 2550 B
EN0102	Bangkok	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

——— END OF REPORT ———

Signatories

Nanthawadee Somboon	Kanokkorn Anek
Specialist 2	Assistant General Manager
1-204-c-0010	1-204-e-0004

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

Analysis Report

TESTING No.0009

Work Order	BK2537528	Date Received	Nov 12, 2025
Client	WHA Utilities and Power Public Company Limited, 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported	Nov 18, 2025
Project	WHA SIL	Report Number	BK2537528-AA
Project Location	Thai Inaba Foods (Thailand) Co.,Ltd. (Hq)_133_WWT_WHASIL_066_2568		

Sample Number	BK2537528-001
Sampled Date	Nov 12, 2025 10:00 AM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	Thai Inaba Foods (Thailand) Co.,Ltd. (Hq)
Contract ID	WWT_WHASIL_066_2568
Plot	133
Date of Analysis	Nov 13, 2025
Sampled by	Panupong Saenoi (1-204-s-0204)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H_2SO_4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, strong odour, some solids, highly turbid

Analytical Results

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	246	≤500	EN0044	Bangkok
COD	mg/L	-	25	412	≤750	EN0046	Bangkok
Oil & Grease	mg/L	-	3	<3	≤10	EN0048	Bangkok
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.2	5.5-9	EN0020	Bangkok
Temperature *	°C	-	-	33.4	≤45	EN0097	Bangkok
Total Suspended Solids	mg/L	-	5	24	≤200	EN0102	Bangkok

Guideline : Industrial Land on Criteria of wastewater discharging to central wastewater treatment plant

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

Key :
- 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

Signatories

Nanthawadee Somboon, Specialist 2, 1-204-s-0010 — Kanokkorn Anek, Assistant General Manager, 1-204-e-0004

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

Analysis Report

TESTING No.0009

Work Order	BK2537528	Date Received	Nov 12, 2025
Client	WHA Utilities and Power Public Company Limited, 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported	Nov 18, 2025
Project	WHA SIL	Report Number	BK2537528-AA
Project Location	Thai Inaba Foods (Thailand) Co.,Ltd. (Hq)_133_WWT_WHASIL_066_2568		

Sample Number	BK2537528-001
Sampled Date	Nov 12, 2025 10:00 AM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	Thai Inaba Foods (Thailand) Co.,Ltd. (Hq)
Contract ID	WWT_WHASIL_066_2568
Plot	133
Date of Analysis	Nov 13, 2025
Sampled by	Panupong Saenoi (1-204-s-0204)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H_2SO_4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, strong odour, some solids, highly turbid

Brief Method Summaries

The methods in the analysis report are short format, refer to full test methods in accordance with the ISO/IEC 17025 certificate no. specified in the analysis report.

Method	Testing Lab	Method Descriptions
EN0020	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0097	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B
EN0102	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

END OF REPORT

Signatories

Nanthawadee Somboon, Specialist 2, 1-204-s-0010 — Kanokkorn Anek, Assistant General Manager, 1-204-e-0004

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

Analysis Report

TESTING No.0009

Work Order	BK2537526	Date Received	Nov 03, 2025
Client	WHA Utilities and Power Public Company Limited, 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported	Nov 10, 2025
Project	WHA SIL	Report Number	BK2537526-AA
Project Location	Thai Malaya Glass (Thailand) Co.,Ltd._37,38_WWT_WHASIL_028_2564		

Sample Number	BK2537526-001
Sampled Date	Nov 03, 2025 01:40 PM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	Thai Malaya Glass (Thailand) Co.,Ltd.
Contract ID	WWT_WHASIL_028_2564
Plot	37,38
Date of Analysis	Nov 04, 2025
Sampled by	Teerawat Puangsuk (1-204-s-0061)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H_2SO_4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, strong odour, lots of solids, highly turbid

Analytical Results

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	15.6	≤500	EN0044	Bangkok
COD	mg/L	-	25	73	≤750	EN0046	Bangkok
Oil & Grease	mg/L	-	3	<3	≤10	EN0048	Bangkok
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.7	5.5-9	EN0020	Bangkok
Temperature *	°C	-	-	29.8	≤45	EN0097	Bangkok
Total Suspended Solids	mg/L	-	5	33	≤200	EN0102	Bangkok

Guideline : Industrial Land on Criteria of wastewater discharging to central wastewater treatment plant

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

Key :
- 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

Signatories

Sittiuk Bunnak, Section Head, 1-204-s-0013 — Kanokkorn Anek, Assistant General Manager, 1-204-e-0004

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Analysis Report

TESTING No.0009

Work Order	BK2537526	Date Received	Nov 03, 2025
Client	WHA Utilities and Power Public Company Limited, 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported	Nov 10, 2025
Project	WHA SIL	Report Number	BK2537526-AA
Project Location	Thai Malaya Glass (Thailand) Co.,Ltd._37,38_WWT_WHASIL_028_2564		

Sample Number	BK2537526-001
Sampled Date	Nov 03, 2025 01:40 PM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	Thai Malaya Glass (Thailand) Co.,Ltd.
Contract ID	WWT_WHASIL_028_2564
Plot	37,38
Date of Analysis	Nov 04, 2025
Sampled by	Teerawat Puangsuk (1-204-s-0061)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H_2SO_4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, strong odour, lots of solids, highly turbid

Brief Method Summaries

The methods in the analysis report are short format, refer to full test methods in accordance with the ISO/IEC 17025 certificate no. specified in the analysis report.

Method	Testing Lab	Method Descriptions
EN0020	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0097	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B
EN0102	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

END OF REPORT

Signatories

Sittiuk Bunnak, Section Head, 1-204-s-0013 — Kanokkorn Anek, Assistant General Manager, 1-204-e-0004

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Analysis Report

TESTING No.0009

Work Order	BK2537529	Date Received	Nov 03, 2025
Client	WHA Utilities and Power Public Company Limited, 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported	Nov 10, 2025
Project	WHA SIL	Report Number	BK2537529-AA
Project Location	Thai Malaya Glass (Thailand) Co.,Ltd._46, 48,143_WWT_WHASIL_001_2568		

Sample Number	BK2537529-001
Sampled Date	Nov 03, 2025 02:20 PM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	Thai Malaya Glass (Thailand) Co.,Ltd.
Contract ID	WWT_WHASIL_001_2568
Plot	46, 48,143
Date of Analysis	Nov 04, 2025
Sampled by	Teerawat Puangsuk (1-204-s-0061)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H_2SO_4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, strong odour, lots of solids, highly turbid

Analytical Results

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	80.1	≤500	EN0044	Bangkok
COD	mg/L	-	25	164	≤750	EN0046	Bangkok
Oil & Grease	mg/L	-	3	[illegible]	≤10	EN0048	Bangkok
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.0	5.5-9	EN0020	Bangkok
Temperature *	°C	-	-	31.2	≤45	EN0097	Bangkok
Total Suspended Solids	mg/L	-	5	96	≤200	EN0102	Bangkok

Guideline : Industrial Land on Criteria of wastewater discharging to central wastewater treatment plant

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

Key :
- 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

Signatories

Sittiuk Bunnak, Section Head, 1-204-s-0013 — Kanokkorn Anek, Assistant General Manager, 1-204-e-0004

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Analysis Report

TESTING No.0009

Work Order	BK2537529	Date Received	Nov 03, 2025
Client	WHA Utilities and Power Public Company Limited, 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported	Nov 10, 2025
Project	WHA SIL	Report Number	BK2537529-AA
Project Location	Thai Malaya Glass (Thailand) Co.,Ltd._46, 48,143_WWT_WHASIL_001_2568		

Sample Number	BK2537529-001
Sampled Date	Nov 03, 2025 02:20 PM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	Thai Malaya Glass (Thailand) Co.,Ltd.
Contract ID	WWT_WHASIL_001_2568
Plot	46, 48,143
Date of Analysis	Nov 04, 2025
Sampled by	Teerawat Puangsuk (1-204-s-0061)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H_2SO_4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, strong odour, lots of solids, highly turbid

Brief Method Summaries

The methods in the analysis report are short format, refer to full test methods in accordance with the ISO/IEC 17025 certificate no. specified in the analysis report.

Method	Testing Lab	Method Descriptions
EN0020	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0097	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B
EN0102	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

END OF REPORT

Signatories

Sittiuk Bunnak, Section Head, 1-204-s-0013 — Kanokkorn Anek, Assistant General Manager, 1-204-e-0004

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

Analysis Report

TESTING No.0009

Work Order	BK2537530	Date Received	Nov 11, 2025
Client	WHA Utilities and Power Public Company Limited, 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported	Nov 18, 2025
Project	WHA SIL	Report Number	BK2537530-AA
Project Location	Thai Rayon Public Limited Company_7, 141_WWT_WHASIL_054_2564		

Sample Number	BK2537530-001
Sampled Date	Nov 11, 2025 11:10 AM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	Thai Rayon Public Limited Company
Contract ID	WWT_WHASIL_054_2564
Plot	7, 141
Date of Analysis	Nov 12, 2025
Sampled by	Teerawat Puangsuk (1-204-s-0061)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H_2SO_4, 1x Plastic Bottle - Preserved with Zinc Acetate and NaOH, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, odourless, no solids, no turbidity

Analytical Results

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	41.2	≤500	EN0044	Bangkok
COD	mg/L	-	25	147	≤750	EN0046	Bangkok
Oil & Grease *	mg/L	-	3	<3	≤10	EN0048	Bangkok
Sulfide *	mg/L	-	0.5	<0.5	≤1	EN0032	Bangkok
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.8	5.5-9	EN0020	Bangkok
Temperature *	°C	-	-	30.4	≤45	EN0097	Bangkok
Total Suspended Solids	mg/L	-	5	<5	≤200	EN0102	Bangkok

Guideline : Industrial Land on Criteria of wastewater discharging to central wastewater treatment plant

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

Key :
- 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

Signatories

Sittiuk Bunnak, Section Head, 1-204-s-0013 — Kanokkorn Anek, Assistant General Manager, 1-204-e-0004

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

Analysis Report

TESTING No.0009

Work Order	BK2537530	Date Received	Nov 11, 2025
Client	WHA Utilities and Power Public Company Limited, 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported	Nov 18, 2025
Project	WHA SIL	Report Number	BK2537530-AA
Project Location	Thai Rayon Public Limited Company_7, 141_WWT_WHASIL_054_2564		

Sample Number	BK2537530-001
Sampled Date	Nov 11, 2025 11:10 AM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	Thai Rayon Public Limited Company
Contract ID	WWT_WHASIL_054_2564
Plot	7, 141
Date of Analysis	Nov 12, 2025
Sampled by	Teerawat Puangsuk (1-204-s-0061)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H_2SO_4, 1x Plastic Bottle - Preserved with Zinc Acetate and NaOH, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, odourless, no solids, no turbidity

Brief Method Summaries

The methods in the analysis report are short format, refer to full test methods in accordance with the ISO/IEC 17025 certificate no. specified in the analysis report.

Method	Testing Lab	Method Descriptions
EN0020	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0032	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - S2 (C, F)
EN0044	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 D
EN0097	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B
EN0102	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

END OF REPORT

Signatories

Sittiuk Bunnak, Section Head, 1-204-s-0013 — Kanokkorn Anek, Assistant General Manager, 1-204-e-0004

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

Analysis Report

TESTING No.0009

Work Order	BK2537531	Date Received	Nov 07, 2025
Client	WHA Utilities and Power Public Company Limited, 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported	Nov 18, 2025
Project	WHA SIL	Report Number	BK2537531-AA (1)
Project Location	The Siam Cement (Takuang) Co.,Ltd._70,71,73_WWT_WHASIL_009_2560		

Sample Number	BK2537531-001
Sampled Date	Nov 07, 2025 09:45 AM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	The Siam Cement (Takuang) Co.,Ltd.
Contract ID	WWT_WHASIL_009_2560
Plot	70,71,73
Date of Analysis	Nov 08, 2025
Sampled by	Panupong Saenoi (1-204-s-0204)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H_2SO_4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, strong odour, some solids, turbid

Analytical Results

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	16.1	≤500	EN0044	Bangkok
COD	mg/L	-	25	80	≤750	EN0046	Bangkok
Oil & Grease	mg/L	-	3	<3	≤10	EN0048	Bangkok
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.8	5.5-9	EN0020	Bangkok
Temperature *	°C	-	-	30.1	≤45	EN0097	Bangkok
Total Suspended Solids	mg/L	-	5	11	≤200	EN0102	Bangkok

Guideline : Industrial Land on Criteria of wastewater discharging to central wastewater treatment plant

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

Key :
- 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

Signatories

Sittiuk Bunnak, Section Head, 1-204-s-0013 — Kanokkorn Anek, Assistant General Manager, 1-204-e-0004

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

Analysis Report

TESTING No.0009

Work Order : BK2537531 | Date Received : Nov 07, 2025
Client : WHA Utilities and Power Public Company Limited | Date Reported : Nov 18, 2025
111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140 | Report Number : BK2537531-AA (1)
Project : WHA SIL
Project Location : The Siam Cement (Takuang) Co.,Ltd._70,71,73_WWT_WHASIL_009_2560

Sample Number : BK2537531-001
Sampled Date : Nov 07, 2025 09:40 AM
Sample Name : Group 2 Wastewater WW-CT
Sampling Site : The Siam Cement (Takuang) Co.,Ltd.
Contract ID : WWT_WHASIL_009_2560
Plot : 70,71,73
Date of Analysis : Nov 08, 2025
Sampled by : Panupong Saenot (1-204-s-0204)
Condition of Sample : 1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H_2SO_4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties : yellow, strong odour, some solids, turbid

Brief Method Summaries

The methods in the analysis report are short format, refer to full test methods in accordance with the ISO/IEC 17025 certificate no. specified in the analysis report.

Method	Testing Lab	Method Descriptions
EN0020	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0097	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B
EN0102	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

—— END OF REPORT ——

Signatories

Sirikuk Burnak, Section Head, 1-204-s-0013
Kanokkorn Anek, Assistant General Manager, 1-204-e-0004

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

Analysis Report

TESTING No.0009

Work Order : BK2537532 | Date Received : Nov 07, 2025
Client : WHA Utilities and Power Public Company Limited | Date Reported : Nov 18, 2025
111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140 | Report Number : BK2537532-AA (1)
Project : WHA SIL
Project Location : Tiemen (Thailand) Corp.,Ltd._53,60_WWT_WHASIL_027_2554

Sample Number : BK2537532-001
Sampled Date : Nov 07, 2025 10:10 AM
Sample Name : Group 2 Wastewater WW-CT
Sampling Site : Tiemen (Thailand) Corp.,Ltd.
Contract ID : WWT_WHASIL_027_2554
Plot : 53,60
Date of Analysis : Nov 08, 2025
Sampled by : Panupong Saenot (1-204-s-0204)
Condition of Sample : 1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H_2SO_4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties : yellow, strong odour, lots of solids, highly turbid

Analytical Results

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	20.5	≤500	EN0044	Bangkok
COD	mg/L	-	25	111	≤750	EN0046	Bangkok
Oil & Grease	mg/L	-	3	4	≤10	EN0048	Bangkok
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	8.1	5.5-9	EN0020	Bangkok
Temperature *	°C	-	-	29.6	≤40	EN0097	Bangkok
Total Suspended Solids	mg/L	-	5	40	≤200	EN0102	Bangkok

Guideline : Industrial Land on Criteria of wastewater discharging to central wastewater treatment plant
Comment : Sampling is not included in scope of accreditation ISO/IEC 17025
Key :
- 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

Signatories

Sirikuk Burnak, Section Head, 1-204-s-0013
Kanokkorn Anek, Assistant General Manager, 1-204-e-0004

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Analysis Report

TESTING No.0009

Work Order : BK2537532 | Date Received : Nov 07, 2025
Client : WHA Utilities and Power Public Company Limited | Date Reported : Nov 18, 2025
111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140 | Report Number : BK2537532-AA (1)
Project : WHA SIL
Project Location : Tiemen (Thailand) Corp.,Ltd._53,60_WWT_WHASIL_027_2554

Sample Number : BK2537532-001
Sampled Date : Nov 07, 2025 10:10 AM
Sample Name : Group 2 Wastewater WW-CT
Sampling Site : Tiemen (Thailand) Corp.,Ltd.
Contract ID : WWT_WHASIL_027_2554
Plot : 53,60
Date of Analysis : Nov 08, 2025
Sampled by : Panupong Saenot (1-204-s-0204)
Condition of Sample : 1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H_2SO_4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties : yellow, strong odour, lots of solids, highly turbid

Brief Method Summaries

The methods in the analysis report are short format, refer to full test methods in accordance with the ISO/IEC 17025 certificate no. specified in the analysis report.

Method	Testing Lab	Method Descriptions
EN0020	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0097	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B
EN0102	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

—— END OF REPORT ——

Signatories

Sirikuk Burnak, Section Head, 1-204-s-0013
Kanokkorn Anek, Assistant General Manager, 1-204-e-0004

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Analysis Report

TESTING No.0009

Work Order : BK2537533 | Date Received : Nov 06, 2025
Client : WHA Utilities and Power Public Company Limited | Date Reported : Nov 18, 2025
111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140 | Report Number : BK2537533-AA (1)
Project : WHA SIL
Project Location : TS Tech (Thailand) Co.,Ltd._147_WWT_WHASIL_061_2566

Sample Number : BK2537533-001
Sampled Date : Nov 06, 2025 10:00 AM
Sample Name : Group 2 Wastewater WW-CT
Sampling Site : TS Tech (Thailand) Co.,Ltd.
Contract ID : WWT_WHASIL_061_2566
Plot : 147
Date of Analysis : Nov 06, 2025
Sampled by : Panupong Saenot (1-204-s-0204)
Condition of Sample : 1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H_2SO_4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties : yellow, some odour, lots of solids, turbid

Analytical Results

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	6.8	≤500	EN0044	Bangkok
COD	mg/L	-	25	80	≤750	EN0046	Bangkok
Oil & Grease	mg/L	-	3	<3	≤10	EN0048	Bangkok
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.9	5.5-9	EN0020	Bangkok
Temperature *	°C	-	-	29.3	≤40	EN0097	Bangkok
Total Suspended Solids	mg/L	-	5	17	≤200	EN0102	Bangkok

Guideline : Industrial Land on Criteria of wastewater discharging to central wastewater treatment plant
Comment : Sampling is not included in scope of accreditation ISO/IEC 17025
Key :
- 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

Signatories

Sirikuk Burnak, Section Head, 1-204-s-0013
Kanokkorn Anek, Assistant General Manager, 1-204-e-0004

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Analysis Report

TESTING No.0009

Work Order : BK2537533 | Date Received : Nov 06, 2025
Client : WHA Utilities and Power Public Company Limited | Date Reported : Nov 18, 2025
111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140 | Report Number : BK2537533-AA (1)
Project : WHA SIL
Project Location : TS Tech (Thailand) Co.,Ltd._147_WWT_WHASIL_061_2566

Sample Number : BK2537533-001
Sampled Date : Nov 06, 2025 10:00 AM
Sample Name : Group 2 Wastewater WW-CT
Sampling Site : TS Tech (Thailand) Co.,Ltd.
Contract ID : WWT_WHASIL_061_2566
Plot : 147
Date of Analysis : Nov 06, 2025
Sampled by : Panupong Saenot (1-204-s-0204)
Condition of Sample : 1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H_2SO_4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties : yellow, some odour, lots of solids, turbid

Brief Method Summaries

The methods in the analysis report are short format, refer to full test methods in accordance with the ISO/IEC 17025 certificate no. specified in the analysis report.

Method	Testing Lab	Method Descriptions
EN0020	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0097	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B
EN0102	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

—— END OF REPORT ——

Signatories

Sirikuk Burnak, Section Head, 1-204-s-0013
Kanokkorn Anek, Assistant General Manager, 1-204-e-0004

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Analysis Report

TESTING No.0009

Work Order : BK2537535 | Date Received : Nov 10, 2025
Client : WHA Utilities and Power Public Company Limited | Date Reported : Nov 17, 2025
111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140 | Report Number : BK2537535-AA
Project : WHA SIL
Project Location : Villeroy & Boch (Thailand) Co.,Ltd._4,32_WWT_WHASIL_012_2564

Sample Number : BK2537535-001
Sampled Date : Nov 10, 2025 11:00 AM
Sample Name : Group 2 Wastewater WW-CT
Sampling Site : Villeroy & Boch (Thailand) Co.,Ltd
Contract ID : WWT_WHASIL_012_2564
Plot : 4,32
Date of Analysis : Nov 11, 2025
Sampled by : Panupong Saenot (1-204-s-0204)
Condition of Sample : 1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H_2SO_4, 1x Oil & Grease, 1x 500mL Plastic Bottle, refrigerated
Physical Properties : yellow, strong odour, some solids, highly turbid

Analytical Results

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	19.1	≤500	EN0044	Bangkok
COD	mg/L	-	25	118	≤750	EN0046	Bangkok
Oil & Grease	mg/L	-	3	4	≤10	EN0048	Bangkok
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.8	5.5-9	EN0020	Bangkok
Temperature *	°C	-	-	30.7	≤45	EN0097	Bangkok
Total Suspended Solids	mg/L	-	5	21	≤200	EN0102	Bangkok

Guideline : Industrial Land on Criteria of wastewater discharging to central wastewater treatment plant
Comment : Sampling is not included in scope of accreditation ISO/IEC 17025
Key :
- 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

Signatories

Sirikuk Burnak, Section Head, 1-204-s-0013
Kanokkorn Anek, Assistant General Manager, 1-204-e-0004

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Analysis Report

TESTING No.0009

Work Order : BK2537535 | Date Received : Nov 10, 2025
Client : WHA Utilities and Power Public Company Limited | Date Reported : Nov 17, 2025
111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140 | Report Number : BK2537535-AA
Project : WHA SIL
Project Location : Villeroy & Boch (Thailand) Co.,Ltd._4,32_WWT_WHASIL_012_2564

Sample Number : BK2537535-001
Sampled Date : Nov 10, 2025 11:00 AM
Sample Name : Group 2 Wastewater WW-CT
Sampling Site : Villeroy & Boch (Thailand) Co.,Ltd
Contract ID : WWT_WHASIL_012_2564
Plot : 4,32
Date of Analysis : Nov 11, 2025
Sampled by : Panupong Saenot (1-204-s-0204)
Condition of Sample : 1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H_2SO_4, 1x Oil & Grease, 1x 500mL Plastic Bottle, refrigerated
Physical Properties : yellow, strong odour, some solids, highly turbid

Brief Method Summaries

The methods in the analysis report are short format, refer to full test methods in accordance with the ISO/IEC 17025 certificate no. specified in the analysis report.

Method	Testing Lab	Method Descriptions
EN0020	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0097	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B
EN0102	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

—— END OF REPORT ——

Signatories

Sirikuk Burnak, Section Head, 1-204-s-0013
Kanokkorn Anek, Assistant General Manager, 1-204-e-0004

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Analysis Report

TESTING No.0009

Work Order : BK2537536 | Date Received : Nov 07, 2025
Client : WHA Utilities and Power Public Company Limited | Date Reported : Nov 18, 2025
111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140 | Report Number : BK2537536-AA (1)
Project : WHA SIL
Project Location : WHA Corporation Public Limited Company_153-154_WWT_WHASIL_074_2567

Sample Number : BK2537536-001
Sampled Date : Nov 07, 2025 10:40 AM
Sample Name : Group 2 Wastewater WW-CT
Sampling Site : WHA Corporation Public Limited Company
Contract ID : WWT_WHASIL_074_2567
Plot : 153-154
Date of Analysis : Nov 08, 2025
Sampled by : Panupong Saenot (1-204-s-0204)
Condition of Sample : 1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H_2SO_4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties : yellow, strong odour, lots of solids, highly turbid

Analytical Results

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	15.8	≤500	EN0044	Bangkok
COD	mg/L	-	25	210	≤750	EN0046	Bangkok
Oil & Grease	mg/L	-	3	<3	≤10	EN0048	Bangkok
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	8.2	5.5-9	EN0020	Bangkok
Temperature *	°C	-	-	30.2	≤40	EN0097	Bangkok
Total Suspended Solids	mg/L	-	5	32	≤200	EN0102	Bangkok

Guideline : Industrial Land on Criteria of wastewater discharging to central wastewater treatment plant
Comment : Sampling is not included in scope of accreditation ISO/IEC 17025
Key :
- 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

Signatories

Sirikuk Burnak, Section Head, 1-204-s-0013
Kanokkorn Anek, Assistant General Manager, 1-204-e-0004

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Analysis Report

TESTING No.0009

Work Order : BK2537536 | Date Received : Nov 07, 2025
Client : WHA Utilities and Power Public Company Limited | Date Reported : Nov 18, 2025
111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140 | Report Number : BK2537536-AA (1)
Project : WHA SIL
Project Location : WHA Corporation Public Limited Company_153-154_WWT_WHASIL_074_2567

Sample Number : BK2537536-001
Sampled Date : Nov 07, 2025 10:40 AM
Sample Name : Group 2 Wastewater WW-CT
Sampling Site : WHA Corporation Public Limited Company
Contract ID : WWT_WHASIL_074_2567
Plot : 153-154
Date of Analysis : Nov 08, 2025
Sampled by : Panupong Saenot (1-204-s-0204)
Condition of Sample : 1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H_2SO_4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties : yellow, strong odour, lots of solids, highly turbid

Brief Method Summaries

The methods in the analysis report are short format, refer to full test methods in accordance with the ISO/IEC 17025 certificate no. specified in the analysis report.

Method	Testing Lab	Method Descriptions
EN0020	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0097	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B
EN0102	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

—— END OF REPORT ——

Signatories

Sirikuk Burnak, Section Head, 1-204-s-0013
Kanokkorn Anek, Assistant General Manager, 1-204-e-0004

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

Analysis Report

TESTING No.0009

Work Order	BK2537537	Date Received	Nov 05, 2025
Client	WHA Utilities and Power Public Company Limited, 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported	Nov 18, 2025
Project	WHA SIL	Report Number	BK2537537-AA (1)
Project Location	WHA Corporation Public Limited Company_93A/1_WWT_WHASIL_075_2567		

Sample Number	BK2537537-001
Sampled Date	Nov 05, 2025 10:55 AM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	WHA Corporation Public Limited Company
Contract ID	WWT_WHASIL_075_2567
Plot	93A/1
Date of Analysis	Nov 06, 2025
Sampled by	Panupong Saenoi (1-204-c-0204)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, strong odour, lots of solids, highly turbid

Analytical Results

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	102	≤500	EN0044	Bangkok
COD	mg/L	-	25	225	≤750	EN0046	Bangkok
Oil & Grease	mg/L	-	3	4	≤10	EN0048	Bangkok
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	8.1	5.5-9	EN0020	Bangkok
Temperature *	°C	-	-	30.8	≤45	EN0097	Bangkok
Total Suspended Solids	mg/L	-	5	44	≤200	EN0102	Bangkok

Guideline : Industrial Land on Criteria of wastewater discharging to central wastewater treatment plant

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

Key :
- 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

Signatories

Siriluk Burnak, Section Head, 1-204-c-0013 — Kanokkorn Anek, Assistant General Manager, 1-204-e-0004

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ALS Laboratory Group (Thailand) Co.,Ltd. Bangkok Life Sciences

Analysis Report

TESTING No.0009

Work Order	BK2537537	Date Received	Nov 05, 2025
Client	WHA Utilities and Power Public Company Limited, 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported	Nov 18, 2025
Project	WHA SIL	Report Number	BK2537537-AA (1)
Project Location	WHA Corporation Public Limited Company_93A/1_WWT_WHASIL_075_2567		

Sample Number	BK2537537-001
Sampled Date	Nov 05, 2025 10:55 AM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	WHA Corporation Public Limited Company
Contract ID	WWT_WHASIL_075_2567
Plot	93A/1
Date of Analysis	Nov 06, 2025
Sampled by	Panupong Saenoi (1-204-c-0204)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, strong odour, lots of solids, highly turbid

Brief Method Summaries

The methods in the analysis report are short format, refer to full test methods in accordance with the ISO/IEC 17025 certificate no. specified in the analysis report.

Method	Testing Lab	Method Descriptions
EN0020	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0097	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B
EN0102	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

——— END OF REPORT ———

Signatories

Siriluk Burnak, Section Head, 1-204-c-0013 — Kanokkorn Anek, Assistant General Manager, 1-204-e-0004

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ALS Laboratory Group (Thailand) Co.,Ltd. Bangkok Life Sciences

Analysis Report

TESTING No.0009

Work Order	BK2537538	Date Received	Nov 07, 2025
Client	WHA Utilities and Power Public Company Limited, 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported	Nov 18, 2025
Project	WHA SIL	Report Number	BK2537538-AA (1)
Project Location	WHA Corporation Public Limited Company_161-162_WWT_WHASIL_037_2566		

Sample Number	BK2537538-001
Sampled Date	Nov 07, 2025 10:50 AM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	WHA Corporation Public Limited Company
Contract ID	WWT_WHASIL_037_2566
Plot	161-162
Date of Analysis	Nov 08, 2025
Sampled by	Panupong Saenoi (1-204-c-0204)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, some odour, lots of solids, turbid

Analytical Results

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	8.8	-	EN0044	Bangkok
COD	mg/L	-	25	32	-	EN0046	Bangkok
Oil & Grease	mg/L	-	3	<3	-	EN0048	Bangkok
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.9	-	EN0020	Bangkok
Temperature *	°C	-	-	28.9	-	EN0097	Bangkok
Total Suspended Solids	mg/L	-	5	15	-	EN0102	Bangkok

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

Key :
- 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

Signatories

Siriluk Burnak, Section Head, 1-204-c-0013 — Kanokkorn Anek, Assistant General Manager, 1-204-e-0004

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

ALS Laboratory Group (Thailand) Co.,Ltd. Bangkok Life Sciences

Analysis Report

TESTING No.0009

Work Order	BK2537538	Date Received	Nov 07, 2025
Client	WHA Utilities and Power Public Company Limited, 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported	Nov 18, 2025
Project	WHA SIL	Report Number	BK2537538-AA (1)
Project Location	WHA Corporation Public Limited Company_161-162_WWT_WHASIL_037_2566		

Sample Number	BK2537538-001
Sampled Date	Nov 07, 2025 10:00 AM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	WHA Corporation Public Limited Company
Contract ID	WWT_WHASIL_037_2566
Plot	161-162
Date of Analysis	Nov 08, 2025
Sampled by	Panupong Saenoi (1-204-c-0204)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, some odour, lots of solids, turbid

Brief Method Summaries

The methods in the analysis report are short format, refer to full test methods in accordance with the ISO/IEC 17025 certificate no. specified in the analysis report.

Method	Testing Lab	Method Descriptions
EN0020	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0097	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B
EN0102	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

——— END OF REPORT ———

Signatories

Siriluk Burnak, Section Head, 1-204-c-0013 — Kanokkorn Anek, Assistant General Manager, 1-204-e-0004

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ALS Laboratory Group (Thailand) Co.,Ltd. Bangkok Life Sciences

Analysis Report

TESTING No.0009

Work Order	BK2537542	Date Received	Nov 11, 2025
Client	WHA Utilities and Power Public Company Limited, 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported	Nov 18, 2025
Project	WHA SIL	Report Number	BK2537542-AA
Project Location	World Quality Co.,Ltd._27(F)_WWT_WHASIL_069_2567		

Sample Number	BK2537542-001
Sampled Date	Nov 11, 2025 11:45 AM
Sample Name	Group 2 Wastewater WW-CT : Point 1
Sampling Site	World Quality Co.,Ltd.
Contract ID	WWT_WHASIL_069_2567
Plot	27(F)
Date of Analysis	Nov 12, 2025
Sampled by	Teerawat Puangsuk (1-204-c-0061)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, some odour, some solids, turbid

Analytical Results

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	142	≤500	EN0044	Bangkok
COD	mg/L	-	25	257	≤750	EN0046	Bangkok
Oil & Grease	mg/L	-	3	8	≤10	EN0048	Bangkok
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.3	5.5-9	EN0020	Bangkok
Temperature *	°C	-	-	30.5	≤45	EN0097	Bangkok
Total Suspended Solids	mg/L	-	5	34	≤200	EN0102	Bangkok

Guideline : Industrial Land on Criteria of wastewater discharging to central wastewater treatment plant

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

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

Signatories

Siriluk Burnak, Section Head, 1-204-c-0013 — Kanokkorn Anek, Assistant General Manager, 1-204-e-0004

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ALS Laboratory Group (Thailand) Co.,Ltd. Bangkok Life Sciences

Analysis Report

TESTING No.0009

Work Order	BK2537542	Date Received	Nov 11, 2025
Client	WHA Utilities and Power Public Company Limited, 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported	Nov 18, 2025
Project	WHA SIL	Report Number	BK2537542-AA
Project Location	World Quality Co.,Ltd._27(F)_WWT_WHASIL_069_2567		

Sample Number	BK2537542-001
Sampled Date	Nov 11, 2025 11:45 AM
Sample Name	Group 2 Wastewater WW-CT : Point 1
Sampling Site	World Quality Co.,Ltd.
Contract ID	WWT_WHASIL_069_2567
Plot	27(F)
Date of Analysis	Nov 12, 2025
Sampled by	Teerawat Puangsuk (1-204-c-0061)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, some odour, some solids, turbid

Brief Method Summaries

The methods in the analysis report are short format, refer to full test methods in accordance with the ISO/IEC 17025 certificate no. specified in the analysis report.

Method	Testing Lab	Method Descriptions
EN0020	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0097	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B
EN0102	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

——— END OF REPORT ———

Signatories

Siriluk Burnak, Section Head, 1-204-c-0013 — Kanokkorn Anek, Assistant General Manager, 1-204-e-0004

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ALS Laboratory Group (Thailand) Co.,Ltd. Bangkok Life Sciences

Analysis Report

TESTING No.0009

Work Order	BK2541480	Date Received	Dec 01, 2025
Client	WHA Utilities and Power Public Company Limited, 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported	Dec 11, 2025
Project	WHA SIL	Report Number	BK2541480-AA
Project Location	Air Liquide (Thailand) Co.,Ltd._1_WWT_WHASIL_001_2564		

Sample Number	BK2541480-001
Sampled Date	Dec 01, 2025 10:10 AM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	Air Liquide (Thailand) Co.,Ltd.
Contract ID	WWT_WHASIL_001_2564
Plot	1
Date of Analysis	Dec 02, 2025
Sampled by	Panupong Saenoi
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, some odour, some solids, no turbidity

Analytical Results

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	4.2	≤500	EN0044	Bangkok
COD	mg/L	-	25	39	≤750	EN0046	Bangkok
Oil & Grease	mg/L	-	3	<3	≤10	EN0048	Bangkok
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	8.3	5.5-9	EN0020	Bangkok
Temperature *	°C	-	-	28.8	≤45	EN0097	Bangkok
Total Suspended Solids	mg/L	-	5	<5	≤200	EN0102	Bangkok

Guideline : Industrial Land on Criteria of wastewater discharging to central wastewater treatment plant

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

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

Signatories

Siriluk Burnak, Section Head

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ALS Laboratory Group (Thailand) Co.,Ltd. Bangkok Life Sciences

Analysis Report

TESTING No.0009

Work Order	BK2541480	Date Received	Dec 01, 2025
Client	WHA Utilities and Power Public Company Limited, 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported	Dec 11, 2025
Project	WHA SIL	Report Number	BK2541480-AA
Project Location	Air Liquide (Thailand) Co.,Ltd._1_WWT_WHASIL_001_2564		

Sample Number	BK2541480-001
Sampled Date	Dec 01, 2025 10:10 AM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	Air Liquide (Thailand) Co.,Ltd.
Contract ID	WWT_WHASIL_001_2564
Plot	1
Date of Analysis	Dec 02, 2025
Sampled by	Panupong Saenoi
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, some odour, some solids, no turbidity

Brief Method Summaries

The methods in the analysis report are short format, refer to full test methods in accordance with the ISO/IEC 17025 certificate no. specified in the analysis report.

Method	Testing Lab	Method Descriptions
EN0020	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0097	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B
EN0102	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

——— END OF REPORT ———

Signatories

Siriluk Burnak, Section Head

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ALS Laboratory Group (Thailand) Co.,Ltd. Bangkok Life Sciences

Analysis Report

TESTING No.0009

Work Order	BK2541485	Date Received	Dec 01, 2025
Client	WHA Utilities and Power Public Company Limited, 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported	Dec 09, 2025
Project	WHA SIL	Report Number	BK2541485-AA
Project Location	Daiyu Seal (Thailand) Co.,Ltd._85D_WWT_WHASIL_043_2566		

Sample Number	BK2541485-001
Sampled Date	Dec 01, 2025 11:10 AM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	Daiyu Seal (Thailand) Co.,Ltd.
Contract ID	WWT_WHASIL_043_2566
Plot	85D
Date of Analysis	Dec 02, 2025
Sampled by	Teerawat Puangsuk (1-204-c-0061)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, strong odour, lots of solids, highly turbid

Analytical Results

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	15.0	≤500	EN0044	Bangkok
COD	mg/L	-	25	176	≤750	EN0046	Bangkok
Oil & Grease	mg/L	-	3	4	≤10	EN0048	Bangkok
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	8.8	5.5-9	EN0020	Bangkok
Temperature *	°C	-	-	28.5	≤45	EN0097	Bangkok
Total Suspended Solids	mg/L	-	5	121	≤200	EN0102	Bangkok

Guideline : Industrial Land on Criteria of wastewater discharging to central wastewater treatment plant

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

Key :
- 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

Signatories

Siriluk Burnak, Section Head, 1-204-c-0013 — Kanokkorn Anek, Assistant General Manager, 1-204-e-0004

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ALS Laboratory Group (Thailand) Co.,Ltd. Bangkok Life Sciences

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Analysis Report

TESTING No.0009

Work Order	BK2541485	Date Received	Dec 01, 2025
Client	WHA Utilities and Power Public Company Limited, 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported	Dec 09, 2025
Project	WHA SIL	Report Number	BK2541485-AA
Project Location	Daiyu Seal (Thailand) Co.,Ltd._93D_WWT_WHASIL_043_2568		

Sample Number	BK2541485-001
Sampled Date	Dec 01, 2025 11:18 AM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	Daiyu Seal (Thailand) Co.,Ltd.
Contract ID	WWT_WHASIL_043_2568
Plot	93D
Date of Analysis	Dec 02, 2025
Sampled by	Teerawat Puangsuk (1-204-c-0061)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, strong odour, lots of solids, highly turbid

Brief Method Summaries

The methods in the analysis report are short format, refer to full test methods in accordance with the ISO/IEC 17025 certificate no. specified in the analysis report.

Method	Testing Lab	Method Descriptions
EN0020	Bangkok	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Bangkok	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Bangkok	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Bangkok	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0007	Bangkok	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 2550 B
EN0102	Bangkok	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

—— END OF REPORT ——

Signatories

Sirilak Burnak, Section Head, 1-204-c-0013

Kanokkorn Anek, Assistant General Manager, 1-204-e-0004

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ALS Laboratory Group (Thailand) Co.,Ltd. Bangkok Life Sciences

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Analysis Report

TESTING No.0009

Work Order	BK2541486	Date Received	Dec 01, 2025
Client	WHA Utilities and Power Public Company Limited, 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported	Dec 09, 2025
Project	WHA SIL	Report Number	BK2541486-AA
Project Location	D-HAPPENNING COMPANY LIMITED_48,84_WWT_WHASIL_004_2560		

Sample Number	BK2541486-001
Sampled Date	Dec 01, 2025 09:40 AM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	D-HAPPENNING COMPANY LIMITED
Contract ID	WWT_WHASIL_004_2560
Plot	48,84
Date of Analysis	Dec 02, 2025
Sampled by	Teerawat Puangsuk (1-204-c-0061)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, some odour, some solids, no turbidity

Analytical Results

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	<2.0	≤500	EN0044	Bangkok
COD	mg/L	-	25	<25	≤750	EN0046	Bangkok
Oil & Grease	mg/L	-	3	<3	≤10	EN0048	Bangkok
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	6.8	5.5-9	EN0020	Bangkok
Temperature *	°C	-	-	25.1	≤40	EN0007	Bangkok
Total Suspended Solids	mg/L	-	5	6	≤200	EN0102	Bangkok

Guideline: Industrial Land on Criteria of wastewater discharging to central wastewater treatment plant

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

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

Signatories

Sirilak Burnak, Section Head, 1-204-c-0013

Kanokkorn Anek, Assistant General Manager, 1-204-e-0004

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ALS Laboratory Group (Thailand) Co.,Ltd. Bangkok Life Sciences

[illegible]

ALS

Analysis Report

TESTING No.0009

Work Order	BK2541486	Date Received	Dec 01, 2025
Client	WHA Utilities and Power Public Company Limited, 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported	Dec 09, 2025
Project	WHA SIL	Report Number	BK2541486-AA
Project Location	D-HAPPENNING COMPANY LIMITED_48,84_WWT_WHASIL_004_2560		

Sample Number	BK2541486-001
Sampled Date	Dec 01, 2025 09:40 AM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	D-HAPPENNING COMPANY LIMITED
Contract ID	WWT_WHASIL_004_2560
Plot	48,84
Date of Analysis	Dec 02, 2025
Sampled by	Teerawat Puangsuk (1-204-c-0061)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, some odour, some solids, no turbidity

Brief Method Summaries

The methods in the analysis report are short format, refer to full test methods in accordance with the ISO/IEC 17025 certificate no. specified in the analysis report.

Method	Testing Lab	Method Descriptions
EN0020	Bangkok	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Bangkok	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Bangkok	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Bangkok	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0007	Bangkok	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 2550 B
EN0102	Bangkok	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

—— END OF REPORT ——

Signatories

Sirilak Burnak, Section Head, 1-204-c-0013

Kanokkorn Anek, Assistant General Manager, 1-204-e-0004

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ALS Laboratory Group (Thailand) Co.,Ltd. Bangkok Life Sciences

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ALS

Analysis Report

TESTING No.0009

Work Order	BK2541487	Date Received	Dec 01, 2025
Client	WHA Utilities and Power Public Company Limited, 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported	Dec 09, 2025
Project	WHA SIL	Report Number	BK2541487-AA
Project Location	D-Rubber Products Co.,Ltd._54_WWT_WHASIL_003_2564		

Sample Number	BK2541487-001
Sampled Date	Dec 01, 2025 10:40 AM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	D-Rubber Products Co.,Ltd.
Contract ID	WWT_WHASIL_003_2564
Plot	54
Date of Analysis	Dec 02, 2025
Sampled by	Nimnual Komol (1-204-c-0015)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	white, strong odour, lots of solids, highly turbid

Analytical Results

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	197	≤500	EN0044	Bangkok
COD	mg/L	-	25	400	≤750	EN0046	Bangkok
Oil & Grease	mg/L	-	3	6	≤10	EN0048	Bangkok
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.5	5.5-9	EN0020	Bangkok
Temperature *	°C	-	-	38.0	≤40	EN0007	Bangkok
Total Suspended Solids	mg/L	-	5	81	≤200	EN0102	Bangkok

Guideline: Industrial Land on Criteria of wastewater discharging to central wastewater treatment plant

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

Key:
- LOD : Limit of Detection
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- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025

Signatories

Sirilak Burnak, Section Head, 1-204-c-0013

Kanokkorn Anek, Assistant General Manager, 1-204-e-0004

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ALS Laboratory Group (Thailand) Co.,Ltd. Bangkok Life Sciences

[illegible]

ALS

Analysis Report

TESTING No.0009

Work Order	BK2541487	Date Received	Dec 01, 2025
Client	WHA Utilities and Power Public Company Limited, 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported	Dec 09, 2025
Project	WHA SIL	Report Number	BK2541487-AA
Project Location	D-Rubber Products Co.,Ltd._54_WWT_WHASIL_003_2564		

Sample Number	BK2541487-001
Sampled Date	Dec 01, 2025 10:40 AM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	D-Rubber Products Co.,Ltd.
Contract ID	WWT_WHASIL_003_2564
Plot	54
Date of Analysis	Dec 02, 2025
Sampled by	Nimnual Komol (1-204-c-0015)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	white, strong odour, lots of solids, highly turbid

Brief Method Summaries

The methods in the analysis report are short format, refer to full test methods in accordance with the ISO/IEC 17025 certificate no. specified in the analysis report.

Method	Testing Lab	Method Descriptions
EN0020	Bangkok	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Bangkok	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Bangkok	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Bangkok	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0007	Bangkok	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 2550 B
EN0102	Bangkok	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

—— END OF REPORT ——

Signatories

Sirilak Burnak, Section Head, 1-204-c-0013

Kanokkorn Anek, Assistant General Manager, 1-204-e-0004

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

ALS Laboratory Group (Thailand) Co.,Ltd. Bangkok Life Sciences

[illegible]

ALS

Analysis Report

TESTING No.0009

Work Order	BK2541488	Date Received	Dec 01, 2025
Client	WHA Utilities and Power Public Company Limited, 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported	Dec 09, 2025
Project	WHA SIL	Report Number	BK2541488-AA
Project Location	DSG International (Thailand) PLC._39_WWT_WHASIL_004_2564		

Sample Number	BK2541488-001
Sampled Date	Dec 01, 2025 10:58 AM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	DSG International (Thailand) PLC.
Contract ID	WWT_WHASIL_004_2564
Plot	39
Date of Analysis	Dec 02, 2025
Sampled by	Panupong Saenoi (1-204-c-0204)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, some odour, some solids, turbid

Analytical Results

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	40.5	≤500	EN0044	Bangkok
COD	mg/L	-	25	180	≤750	EN0046	Bangkok
Oil & Grease	mg/L	-	3	7	≤10	EN0048	Bangkok
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.5	5.5-9	EN0020	Bangkok
Temperature *	°C	-	-	28.1	≤40	EN0007	Bangkok
Total Suspended Solids	mg/L	-	5	28	≤200	EN0102	Bangkok

Guideline: Industrial Land on Criteria of wastewater discharging to central wastewater treatment plant

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

Key:
- 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

Signatories

Sirilak Burnak, Section Head, 1-204-c-0013

Kanokkorn Anek, Assistant General Manager, 1-204-e-0004

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ALS Laboratory Group (Thailand) Co.,Ltd. Bangkok Life Sciences

[illegible]

ALS

Analysis Report

TESTING No.0009

Work Order	BK2541488	Date Received	Dec 01, 2025
Client	WHA Utilities and Power Public Company Limited, 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported	Dec 09, 2025
Project	WHA SIL	Report Number	BK2541488-AA
Project Location	DSG International (Thailand) PLC._39_WWT_WHASIL_004_2564		

Sample Number	BK2541488-001
Sampled Date	Dec 01, 2025 10:58 AM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	DSG International (Thailand) PLC.
Contract ID	WWT_WHASIL_004_2564
Plot	39
Date of Analysis	Dec 02, 2025
Sampled by	Panupong Saenoi (1-204-c-0204)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, some odour, some solids, turbid

Brief Method Summaries

The methods in the analysis report are short format, refer to full test methods in accordance with the ISO/IEC 17025 certificate no. specified in the analysis report.

Method	Testing Lab	Method Descriptions
EN0020	Bangkok	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Bangkok	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Bangkok	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Bangkok	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0007	Bangkok	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 2550 B
EN0102	Bangkok	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

—— END OF REPORT ——

Signatories

Sirilak Burnak, Section Head, 1-204-c-0013

Kanokkorn Anek, Assistant General Manager, 1-204-e-0004

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ALS Laboratory Group (Thailand) Co.,Ltd. Bangkok Life Sciences

[illegible]

ALS

Analysis Report

TESTING No.0009

Work Order	BK2541492	Date Received	Dec 01, 2025
Client	WHA Utilities and Power Public Company Limited, 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported	Dec 09, 2025
Project	WHA SIL	Report Number	BK2541492-AA
Project Location	FTN (Saraburi) Co.,Ltd._148_WWT_WHASIL_031_2566		

Sample Number	BK2541492-001
Sampled Date	Dec 01, 2025 01:10 PM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	FTN (Saraburi) Co.,Ltd.
Contract ID	WWT_WHASIL_031_2566
Plot	148
Date of Analysis	Dec 02, 2025
Sampled by	Panupong Saenoi (1-204-c-0204)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, some odour, some solids, turbid

Analytical Results

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	15.7	≤500	EN0044	Bangkok
COD	mg/L	-	25	80	≤750	EN0046	Bangkok
Oil & Grease	mg/L	-	3	<3	≤10	EN0048	Bangkok
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.8	5.5-9	EN0020	Bangkok
Temperature *	°C	-	-	29.8	≤40	EN0007	Bangkok
Total Suspended Solids	mg/L	-	5	19	≤200	EN0102	Bangkok

Guideline: Industrial Land on Criteria of wastewater discharging to central wastewater treatment plant

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

Key:
- 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

Signatories

Sirilak Burnak, Section Head, 1-204-c-0013

Kanokkorn Anek, Assistant General Manager, 1-204-e-0004

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ALS Laboratory Group (Thailand) Co.,Ltd. Bangkok Life Sciences

[illegible]

ALS

Analysis Report

TESTING No.0009

Work Order	BK2541492	Date Received	Dec 01, 2025
Client	WHA Utilities and Power Public Company Limited, 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported	Dec 09, 2025
Project	WHA SIL	Report Number	BK2541492-AA
Project Location	FTN (Saraburi) Co.,Ltd._148_WWT_WHASIL_031_2566		

Sample Number	BK2541492-001
Sampled Date	Dec 01, 2025 01:10 PM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	FTN (Saraburi) Co.,Ltd.
Contract ID	WWT_WHASIL_031_2566
Plot	148
Date of Analysis	Dec 02, 2025
Sampled by	Panupong Saenoi (1-204-c-0204)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, some odour, some solids, turbid

Brief Method Summaries

The methods in the analysis report are short format, refer to full test methods in accordance with the ISO/IEC 17025 certificate no. specified in the analysis report.

Method	Testing Lab	Method Descriptions
EN0020	Bangkok	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Bangkok	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Bangkok	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Bangkok	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0007	Bangkok	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 2550 B
EN0102	Bangkok	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

—— END OF REPORT ——

Signatories

Sirilak Burnak, Section Head, 1-204-c-0013

Kanokkorn Anek, Assistant General Manager, 1-204-e-0004

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ALS Laboratory Group (Thailand) Co.,Ltd. Bangkok Life Sciences

[illegible]

Analysis Report

TESTING No.0009

Work Order	BK2541483	Date Received :	Dec 01, 2025
Client	WHA Utilities and Power Public Company Limited	Date Reported :	Dec 08, 2025
	111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Report Number :	BK2541483-AA
Project	WHA SIL		
Project Location	Fujikoki Corporation_77,78_WWT_WHASIL_005_2564		

Sample Number	BK2541483-001
Sampled Date	Dec 01, 2025 11:05 AM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	Fujikoki Corporation
Contract ID	WWT_WHASIL_005_2564
Plot	77,78
Date of Analysis	Dec 02, 2025
Sampled by	Panupong Saenot (1-204-c-0204)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H_2SO_4, 1x Oil & Grease, 1x Logsheet data, 1x 600mL Plastic Bottle, refrigerated
Physical Properties	yellow, some odour, some solids, no turbidity

Analytical Results

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	3.5	≤500	EN0044	Bangkok
COD	mg/L	-	25	<25	≤750	EN0046	Bangkok
Oil & Grease	mg/L	-	3	<3	≤10	EN0048	Bangkok
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.6	5.5-9	EN0020	Bangkok
Temperature *	°C	-	-	27.4	≤40	EN0097	Bangkok
Total Suspended Solids	mg/L	-	5	8	≤200	EN0102	Bangkok

Guideline : Industrial Land on Criteria of wastewater discharging to central wastewater treatment plant

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

Key :
- 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

Signatories

Sitthik Bunnak, Section Head, 1-204-c-0013 — Kanokkorn Anek, Assistant General Manager, 1-204-e-0004

Analysis Report

TESTING No.0009

Work Order	BK2541483	Date Received :	Dec 01, 2025
Client	WHA Utilities and Power Public Company Limited	Date Reported :	Dec 08, 2025
	111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Report Number :	BK2541483-AA
Project	WHA SIL		
Project Location	Fujikoki Corporation_77,78_WWT_WHASIL_005_2564		

Sample Number	BK2541483-001
Sampled Date	Dec 01, 2025 11:05 AM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	Fujikoki Corporation
Contract ID	WWT_WHASIL_005_2564
Plot	77,78
Date of Analysis	Dec 02, 2025
Sampled by	Panupong Saenot (1-204-c-0204)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H_2SO_4, 1x Oil & Grease, 1x Logsheet data, 1x 600mL Plastic Bottle, refrigerated
Physical Properties	yellow, some odour, some solids, no turbidity

Brief Method Summaries

The methods in the analysis report are short format, refer to full test methods in accordance with the ISO/IEC 17025 certificate no. specified in the analysis report.

Method	Testing Lab	Method Descriptions
EN0020	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0097	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B
EN0102	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

——— END OF REPORT ———

Signatories

Sitthik Bunnak, Section Head, 1-204-c-0013 — Kanokkorn Anek, Assistant General Manager, 1-204-e-0004

Analysis Report

TESTING No.0009

Work Order	BK2541487	Date Received :	Dec 01, 2025
Client	WHA Utilities and Power Public Company Limited	Date Reported :	Dec 08, 2025
	111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Report Number :	BK2541487-AA
Project	WHA SIL		
Project Location	Guardian Industries Corp Ltd._2_WWT_WHASIL_006_2564		

Sample Number	BK2541487-001
Sampled Date	Dec 01, 2025 09:40 AM
Sample Name	Group 2 Wastewater WW-CT : Point 1
Sampling Site	Guardian Industries Corp Ltd.
Contract ID	WWT_WHASIL_006_2564
Plot	2
Date of Analysis	Dec 02, 2025
Sampled by	Panupong Saenot (1-204-c-0204)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H_2SO_4, 1x Oil & Grease, 1x Logsheet data, 1x 600mL Plastic Bottle, refrigerated
Physical Properties	yellow, some odour, some solids, no turbidity

Analytical Results

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	<2.0	≤500	EN0044	Bangkok
COD	mg/L	-	25	39	≤750	EN0046	Bangkok
Oil & Grease	mg/L	-	3	<3	≤10	EN0048	Bangkok
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.6	5.5-9	EN0020	Bangkok
Temperature *	°C	-	-	32.5	≤40	EN0097	Bangkok
Total Suspended Solids	mg/L	-	5	7	≤200	EN0102	Bangkok

Guideline : Industrial Land on Criteria of wastewater discharging to central wastewater treatment plant

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

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

Sitthik Bunnak, Section Head, 1-204-c-0013 — Kanokkorn Anek, Assistant General Manager, 1-204-e-0004

Analysis Report

TESTING No.0009

Work Order	BK2541487	Date Received :	Dec 01, 2025
Client	WHA Utilities and Power Public Company Limited	Date Reported :	Dec 08, 2025
	111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Report Number :	BK2541487-AA
Project	WHA SIL		
Project Location	Guardian Industries Corp Ltd._2_WWT_WHASIL_006_2564		

Sample Number	BK2541487-001
Sampled Date	Dec 01, 2025 09:40 AM
Sample Name	Group 2 Wastewater WW-CT : Point 1
Sampling Site	Guardian Industries Corp Ltd.
Contract ID	WWT_WHASIL_006_2564
Plot	2
Date of Analysis	Dec 02, 2025
Sampled by	Panupong Saenot (1-204-c-0204)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H_2SO_4, 1x Oil & Grease, 1x Logsheet data, 1x 600mL Plastic Bottle, refrigerated
Physical Properties	yellow, some odour, some solids, no turbidity

Brief Method Summaries

The methods in the analysis report are short format, refer to full test methods in accordance with the ISO/IEC 17025 certificate no. specified in the analysis report.

Method	Testing Lab	Method Descriptions
EN0020	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0097	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B
EN0102	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

——— END OF REPORT ———

Signatories

Sitthik Bunnak, Section Head, 1-204-c-0013 — Kanokkorn Anek, Assistant General Manager, 1-204-e-0004

Analysis Report

TESTING No.0009

Work Order	BK2541488	Date Received :	Dec 01, 2025
Client	WHA Utilities and Power Public Company Limited	Date Reported :	Dec 08, 2025
	111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Report Number :	BK2541488-AA
Project	WHA SIL		
Project Location	Guardian Industries Corp Ltd._2_WWT_WHASIL_007_2564		

Sample Number	BK2541488-001
Sampled Date	Dec 01, 2025 09:45 AM
Sample Name	Group 2 Wastewater WW-CT : Point 2
Sampling Site	Guardian Industries Corp Ltd.
Contract ID	WWT_WHASIL_007_2564
Plot	2
Date of Analysis	Dec 02, 2025
Sampled by	Panupong Saenot (1-204-c-0204)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H_2SO_4, 1x Oil & Grease, 1x Logsheet data, 1x 600mL Plastic Bottle, refrigerated
Physical Properties	yellow, some odour, some solids, no turbidity

Analytical Results

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	<2.0	≤500	EN0044	Bangkok
COD	mg/L	-	25	<25	≤750	EN0046	Bangkok
Oil & Grease	mg/L	-	3	<3	≤10	EN0048	Bangkok
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.8	5.5-9	EN0020	Bangkok
Temperature *	°C	-	-	27.8	≤40	EN0097	Bangkok
Total Suspended Solids	mg/L	-	5	<5	≤200	EN0102	Bangkok

Guideline : Industrial Land on Criteria of wastewater discharging to central wastewater treatment plant

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

Key :
- 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

Signatories

Sitthik Bunnak, Section Head, 1-204-c-0013 — Kanokkorn Anek, Assistant General Manager, 1-204-e-0004

Analysis Report

TESTING No.0009

Work Order	BK2541488	Date Received :	Dec 01, 2025
Client	WHA Utilities and Power Public Company Limited	Date Reported :	Dec 08, 2025
	111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Report Number :	BK2541488-AA
Project	WHA SIL		
Project Location	Guardian Industries Corp Ltd._2_WWT_WHASIL_007_2564		

Sample Number	BK2541488-001
Sampled Date	Dec 01, 2025 09:45 AM
Sample Name	Group 2 Wastewater WW-CT : Point 2
Sampling Site	Guardian Industries Corp Ltd.
Contract ID	WWT_WHASIL_007_2564
Plot	2
Date of Analysis	Dec 02, 2025
Sampled by	Panupong Saenot (1-204-c-0204)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H_2SO_4, 1x Oil & Grease, 1x Logsheet data, 1x 600mL Plastic Bottle, refrigerated
Physical Properties	yellow, some odour, some solids, no turbidity

Brief Method Summaries

The methods in the analysis report are short format, refer to full test methods in accordance with the ISO/IEC 17025 certificate no. specified in the analysis report.

Method	Testing Lab	Method Descriptions
EN0020	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0097	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B
EN0102	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

——— END OF REPORT ———

Signatories

Sitthik Bunnak, Section Head, 1-204-c-0013 — Kanokkorn Anek, Assistant General Manager, 1-204-e-0004

Analysis Report

TESTING No.0009

Work Order	BK2541489	Date Received :	Dec 01, 2025
Client	WHA Utilities and Power Public Company Limited	Date Reported :	Dec 08, 2025
	111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Report Number :	BK2541489-AA
Project	WHA SIL		
Project Location	Guardian Industries Corp Ltd._2_WWT_WHASIL_008_2564		

Sample Number	BK2541489-001
Sampled Date	Dec 01, 2025 09:35 AM
Sample Name	Group 2 Wastewater WW-CT : Point 3
Sampling Site	Guardian Industries Corp Ltd.
Contract ID	WWT_WHASIL_008_2564
Plot	2
Date of Analysis	Dec 02, 2025
Sampled by	Panupong Saenot (1-204-c-0204)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H_2SO_4, 1x Oil & Grease, 1x Logsheet data, 1x 600mL Plastic Bottle, refrigerated
Physical Properties	yellow, some odour, some solids, no turbidity

Analytical Results

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	10.1	≤500	EN0044	Bangkok
COD	mg/L	-	25	74	≤750	EN0046	Bangkok
Oil & Grease	mg/L	-	3	<3	≤10	EN0048	Bangkok
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.6	5.5-9	EN0020	Bangkok
Temperature *	°C	-	-	27.4	≤40	EN0097	Bangkok
Total Suspended Solids	mg/L	-	5	28	≤200	EN0102	Bangkok

Guideline : Industrial Land on Criteria of wastewater discharging to central wastewater treatment plant

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

Key :
- 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

Signatories

Sitthik Bunnak, Section Head, 1-204-c-0013 — Kanokkorn Anek, Assistant General Manager, 1-204-e-0004

Analysis Report

TESTING No.0009

Work Order	BK2541489	Date Received :	Dec 01, 2025
Client	WHA Utilities and Power Public Company Limited	Date Reported :	Dec 08, 2025
	111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Report Number :	BK2541489-AA
Project	WHA SIL		
Project Location	Guardian Industries Corp Ltd._2_WWT_WHASIL_008_2564		

Sample Number	BK2541489-001
Sampled Date	Dec 01, 2025 09:35 AM
Sample Name	Group 2 Wastewater WW-CT : Point 3
Sampling Site	Guardian Industries Corp Ltd.
Contract ID	WWT_WHASIL_008_2564
Plot	2
Date of Analysis	Dec 02, 2025
Sampled by	Panupong Saenot (1-204-c-0204)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H_2SO_4, 1x Oil & Grease, 1x Logsheet data, 1x 600mL Plastic Bottle, refrigerated
Physical Properties	yellow, some odour, some solids, no turbidity

Brief Method Summaries

The methods in the analysis report are short format, refer to full test methods in accordance with the ISO/IEC 17025 certificate no. specified in the analysis report.

Method	Testing Lab	Method Descriptions
EN0020	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0097	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B
EN0102	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

——— END OF REPORT ———

Signatories

Sitthik Bunnak, Section Head, 1-204-c-0013 — Kanokkorn Anek, Assistant General Manager, 1-204-e-0004

Analysis Report

TESTING No.0009

Work Order	BK2541500	Date Received :	Dec 04, 2025
Client	WHA Utilities and Power Public Company Limited	Date Reported :	Dec 16, 2025
	111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Report Number :	BK2541500-AA
Project	WHA SIL		
Project Location	Gulf JP NK2 Co.,Ltd._86_WWT_WHASIL_072_2567		

Sample Number	BK2541500-001
Sampled Date	Dec 04, 2025 10:00 AM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	Gulf JP NK2 Co.,Ltd.
Contract ID	WWT_WHASIL_072_2567
Plot	86
Date of Analysis	Dec 08, 2025
Sampled by	Panupong Saenot (1-204-c-0204)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H_2SO_4, 1x Oil & Grease, 1x Logsheet data, 1x Plastic Bottle - Preserved with NaOH, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, some odour, some solids, no turbidity

Analytical Results

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	<2.0	≤500	EN0044	Bangkok
COD	mg/L	-	25	42	≤750	EN0046	Bangkok
Oil & Grease	mg/L	-	3	<3	≤10	EN0048	Bangkok
Metals and Major Cations - Total							
Hexavalent Chromium	mg/L	0.003	0.01	Not Detected	≤0.25	ME0006	Bangkok
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.0	5.5-9	EN0020	Bangkok
Temperature *	°C	-	-	27.9	≤40	EN0097	Bangkok
Total Dissolved Solids at 180°C	mg/L	-	5	1018	≤3000	EN0100	Bangkok
Total Suspended Solids	mg/L	-	5	6	≤200	EN0102	Bangkok

Guideline : Industrial Land on Criteria of wastewater discharging to central wastewater treatment plant

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

Key :
- 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

Signatories

Sawitree Nobangjam, Manager, 1-204-c-0007 — Kanokkorn Anek, Assistant General Manager, 1-204-e-0004

Analysis Report

TESTING No.0009

Work Order	BK2541500	Date Received	Dec 04, 2025
Client	WHA Utilities and Power Public Company Limited, 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported	Dec 16, 2025
Project	WHA SIL	Report Number	BK2541500-AA
Project Location	Gulf JP NK2 Co.,Ltd._88_WWT_WHASIL_072_2567		

Sample Number	BK2541500-001
Sampled Date	Dec 04, 2025 10:00 AM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	Gulf JP NK2 Co.,Ltd.
Contract ID	WWT_WHASIL_072_2567
Plot	88
Date of Analysis	Dec 06, 2025
Sampled by	Panupong Saenol (1-204-c-0204)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H_2SO_4, 1x Oil & Grease, 1x Logsheet data, 1x Plastic Bottle - Preserved with NaOH, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, some odour, some solids, no turbidity

Brief Method Summaries

The methods in the analysis report are short format, refer to full test methods in accordance with the ISO/IEC 17025 certificate no. specified in the analysis report.

Method	Testing Lab	Method Descriptions
EN0020	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0097	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B
EN0100	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C
EN0102	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D
ME0006	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3500-Cr (B)

—— END OF REPORT ——

Signatories

Saskree Nolsangiam	Karokkorn Anek
Manager	Assistant General Manager
1-204-c-0007	1-204-e-0004

Analysis Report

TESTING No.0009

Work Order	BK2541500	Date Received	Dec 04, 2025
Client	WHA Utilities and Power Public Company Limited, 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported	Dec 16, 2025
Project	WHA SIL	Report Number	BK2541500-AB
Project Location	Gulf JP NK2 Co.,Ltd._88_WWT_WHASIL_072_2567		

Sample Number	BK2541500-001
Sampled Date	Dec 04, 2025 10:00 AM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	Gulf JP NK2 Co.,Ltd.
Contract ID	WWT_WHASIL_072_2567
Plot	88
Date of Analysis	Dec 05, 2025
Sampled by	Panupong Saenol
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H_2SO_4, 1x Oil & Grease, 1x Logsheet data, 1x Plastic Bottle - Preserved with NaOH, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, some odour, some solids, no turbidity

Analytical Results

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Physical and Aggregate Properties							
Conductivity at 25 °C	µS/cm	-	0.60	1500	-	EN0052	Bangkok

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

Brief Method Summaries

The methods in the analysis report are short format, refer to full test methods in accordance with the ISO/IEC 17025 certificate no. specified in the analysis report.

Method	Testing Lab	Method Descriptions
EN0052	Bangkok	Based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2510B

—— END OF REPORT ——

Signatories

Nanthawadee Somboon
Specialist 2

Analysis Report

TESTING No.0009

Work Order	BK2541501	Date Received	Dec 01, 2025
Client	WHA Utilities and Power Public Company Limited, 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported	Dec 17, 2025
Project	WHA SIL	Report Number	BK2541501-AA (1)
Project Location	Gulf NPM Co.,Ltd._131_WWT_WHASIL_004_2562		

Sample Number	BK2541501-001
Sampled Date	Dec 01, 2025 09:25 AM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	Gulf NPM Co.,Ltd.
Contract ID	WWT_WHASIL_004_2562
Plot	131
Date of Analysis	Dec 02, 2025
Sampled by	Panupong Saenol (1-204-c-0204)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H_2SO_4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, some odour, some solids, no turbidity

Analytical Results

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	<2.0	≤500	EN0044	Bangkok
COD	mg/L	-	25	71	≤750	EN0046	Bangkok
Oil & Grease	mg/L	-	3	<3	≤10	EN0048	Bangkok
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.6	5.5-9	EN0020	Bangkok
Temperature *	°C	-	-	26.5	≤40	EN0097	Bangkok
Total Dissolved Solids at 180°C	mg/L	-	5	2108	≤3000	EN0100	Bangkok
Total Suspended Solids	mg/L	-	5	<5	≤200	EN0102	Bangkok

Guideline : Industrial Land on Criteria of wastewater discharging to central wastewater treatment plant.
Comment : Sampling is not included in scope of accreditation ISO/IEC 17025
Key: • 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

Signatories

Sitthuk Bunnak	Karokkorn Anek
Section Head	Assistant General Manager
1-204-c-0013	1-204-e-0004

Analysis Report

TESTING No.0009

Work Order	BK2541501	Date Received	Dec 01, 2025
Client	WHA Utilities and Power Public Company Limited, 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported	Dec 17, 2025
Project	WHA SIL	Report Number	BK2541501-AA (1)
Project Location	Gulf NPM Co.,Ltd._131_WWT_WHASIL_004_2562		

Sample Number	BK2541501-001
Sampled Date	Dec 01, 2025 09:25 AM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	Gulf NPM Co.,Ltd.
Contract ID	WWT_WHASIL_004_2562
Plot	131
Date of Analysis	Dec 02, 2025
Sampled by	Panupong Saenol (1-204-c-0204)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H_2SO_4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, some odour, some solids, no turbidity

Brief Method Summaries

The methods in the analysis report are short format, refer to full test methods in accordance with the ISO/IEC 17025 certificate no. specified in the analysis report.

Method	Testing Lab	Method Descriptions
EN0020	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0097	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B
EN0100	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C
EN0102	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

—— END OF REPORT ——

Signatories

Sitthuk Bunnak	Karokkorn Anek
Section Head	Assistant General Manager
1-204-c-0013	1-204-e-0004

Analysis Report

TESTING No.0009

Work Order	BK2541503	Date Received	Dec 01, 2025
Client	WHA Utilities and Power Public Company Limited, 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported	Dec 08, 2025
Project	WHA SIL	Report Number	BK2541503-AA
Project Location	HOWA PACKAGING (THAILAND) CO., LTD._57_WWT_WHASIL_009_2568		

Sample Number	BK2541503-001
Sampled Date	Dec 01, 2025 11:45 AM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	HOWA PACKAGING (THAILAND) CO., LTD.
Contract ID	WWT_WHASIL_009_2568
Plot	57
Date of Analysis	Dec 02, 2025
Sampled by	Nonsuan Kamal (1-204-c-0015)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H_2SO_4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, strong odour, lots of solids, highly turbid

Analytical Results

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	175	≤500	EN0044	Bangkok
COD	mg/L	-	25	344	≤750	EN0046	Bangkok
Oil & Grease	mg/L	-	3	8	≤10	EN0048	Bangkok
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	6.8	5.5-9	EN0020	Bangkok
Temperature *	°C	-	-	25.5	≤40	EN0097	Bangkok
Total Suspended Solids	mg/L	-	5	27	≤200	EN0102	Bangkok

Guideline : Industrial Land on Criteria of wastewater discharging to central wastewater treatment plant.
Comment : Sampling is not included in scope of accreditation ISO/IEC 17025
Key: • 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

Signatories

Sitthuk Bunnak	Karokkorn Anek
Section Head	Assistant General Manager
1-204-c-0013	1-204-e-0004

Analysis Report

TESTING No.0009

Work Order	BK2541503	Date Received	Dec 01, 2025
Client	WHA Utilities and Power Public Company Limited, 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported	Dec 08, 2025
Project	WHA SIL	Report Number	BK2541503-AA
Project Location	HOWA PACKAGING (THAILAND) CO., LTD._57_WWT_WHASIL_009_2568		

Sample Number	BK2541503-001
Sampled Date	Dec 01, 2025 11:45 AM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	HOWA PACKAGING (THAILAND) CO., LTD.
Contract ID	WWT_WHASIL_009_2568
Plot	57
Date of Analysis	Dec 02, 2025
Sampled by	Nonsuan Kamal (1-204-c-0015)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H_2SO_4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, strong odour, lots of solids, highly turbid

Brief Method Summaries

The methods in the analysis report are short format, refer to full test methods in accordance with the ISO/IEC 17025 certificate no. specified in the analysis report.

Method	Testing Lab	Method Descriptions
EN0020	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0097	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B
EN0102	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

—— END OF REPORT ——

Signatories

Sitthuk Bunnak	Karokkorn Anek
Section Head	Assistant General Manager
1-204-c-0013	1-204-e-0004

Analysis Report

TESTING No.0009

Work Order	BK2541504	Date Received	Dec 01, 2025
Client	WHA Utilities and Power Public Company Limited, 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported	Dec 08, 2025
Project	WHA SIL	Report Number	BK2541504-AA
Project Location	Hygenie (Thailand) Co.,Ltd. (1st)_149_WWT_WHASIL_032_2568		

Sample Number	BK2541504-001
Sampled Date	Dec 01, 2025 11:30 AM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	Hygenie (Thailand) Co.,Ltd. (1st)
Contract ID	WWT_WHASIL_032_2568
Plot	149
Date of Analysis	Dec 02, 2025
Sampled by	Panupong Saenol (1-204-c-0204)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H_2SO_4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	colourless, some odour, some solids, no turbidity

Analytical Results

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	<2.0	≤500	EN0044	Bangkok
COD	mg/L	-	25	<25	≤750	EN0046	Bangkok
Oil & Grease	mg/L	-	3	<3	≤10	EN0048	Bangkok
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.8	5.5-9	EN0020	Bangkok
Temperature *	°C	-	-	29.4	≤40	EN0097	Bangkok
Total Dissolved Solids at 180°C	mg/L	-	5	748	≤3000	EN0100	Bangkok
Total Suspended Solids	mg/L	-	5	<5	≤200	EN0102	Bangkok

Guideline : Industrial Land on Criteria of wastewater discharging to central wastewater treatment plant.
Comment : Sampling is not included in scope of accreditation ISO/IEC 17025
Key: • 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

Signatories

Sitthuk Bunnak	Karokkorn Anek
Section Head	Assistant General Manager
1-204-c-0013	1-204-e-0004

Analysis Report

TESTING No.0009

Work Order	BK2541504	Date Received	Dec 01, 2025
Client	WHA Utilities and Power Public Company Limited, 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported	Dec 08, 2025
Project	WHA SIL	Report Number	BK2541504-AA
Project Location	Hygenie (Thailand) Co.,Ltd. (1st)_149_WWT_WHASIL_032_2568		

Sample Number	BK2541504-001
Sampled Date	Dec 01, 2025 11:30 AM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	Hygenie (Thailand) Co.,Ltd. (1st)
Contract ID	WWT_WHASIL_032_2568
Plot	149
Date of Analysis	Dec 02, 2025
Sampled by	Panupong Saenol (1-204-c-0204)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H_2SO_4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	colourless, some odour, some solids, no turbidity

Brief Method Summaries

The methods in the analysis report are short format, refer to full test methods in accordance with the ISO/IEC 17025 certificate no. specified in the analysis report.

Method	Testing Lab	Method Descriptions
EN0020	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0097	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B
EN0100	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C
EN0102	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

—— END OF REPORT ——

Signatories

Sitthuk Bunnak	Karokkorn Anek
Section Head	Assistant General Manager
1-204-c-0013	1-204-e-0004

Analysis Report

TESTING No.0009

Work Order	BK2541505	Date Received	Dec 09, 2025
Client	WHA Utilities and Power Public Company Limited, 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported	Dec 16, 2025
Project	WHA SIL	Report Number	BK2541505-AA
Project Location	Hygenie (Thailand) Co.,Ltd. (2nd)_149_WWT_WHASIL_032_2568		

Sample Number	BK2541505-001
Sampled Date	Dec 09, 2025 01:25 PM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	Hygenie (Thailand) Co.,Ltd. (2nd)
Contract ID	WWT_WHASIL_032_2568
Plot	149
Date of Analysis	Dec 11, 2025
Sampled by	Panupong Saenol (1-204-c-0204)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H_2SO_4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated

Analytical Results

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	<2.0	≤500	EN0044	Bangkok
COD	mg/L	-	25	<25	≤750	EN0046	Bangkok
Oil & Grease	mg/L	-	3	<3	≤10	EN0048	Bangkok
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.6	5.5-9	EN0020	Bangkok
Temperature *	°C	-	-	25.9	≤40	EN0097	Bangkok
Total Dissolved Solids at 180°C	mg/L	-	5	1012	≤3000	EN0100	Bangkok
Total Suspended Solids	mg/L	-	5	<5	≤200	EN0102	Bangkok

Guideline : Industrial Land on Criteria of wastewater discharging to central wastewater treatment plant.
Comment : Sampling is not included in scope of accreditation ISO/IEC 17025
Key: • 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

Signatories

Sitthuk Bunnak	Karokkorn Anek
Section Head	Assistant General Manager
1-204-c-0013	1-204-e-0004

Analysis Report

TESTING No.0009

Work Order	BK2541505	Date Received	Dec 09, 2025
Client	WHA Utilities and Power Public Company Limited, 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported	Dec 16, 2025
Project	WHA SIL	Report Number	BK2541505-AA
Project Location	Hygerie (Thailand) Co.,Ltd. (2nd)_149_WWT_WHASIL_032_2568		

Sample Number	BK2541505-001
Sampled Date	Dec 09, 2025 01:25 PM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	Hygerie (Thailand) Co.,Ltd. (2nd)
Contract ID	WWT_WHASIL_032_2568
Plot	149
Date of Analysis	Dec 11, 2025
Sampled by	Panupong Saensri (1-204-c-0204)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H_2SO_4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated

Brief Method Summaries

The methods in the analysis report are short format, refer to full test methods in accordance with the ISO/IEC 17025 certificate no. specified in the analysis report.

Method	Testing Lab	Method Descriptions
EN0020	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0097	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B
EN0100	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C
EN0102	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

—— END OF REPORT ——

Signatories

Siriluk Bunnak, Section Head, 1-204-c-0013

Kanokkorn Anek, Assistant General Manager, 1-204-e-0004

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ALS Laboratory Group (Thailand) Co.,Ltd. Bangkok Life Sciences

Analysis Report

TESTING No.0009

Work Order	BK2541506	Date Received	Dec 01, 2025
Client	WHA Utilities and Power Public Company Limited, 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported	Dec 08, 2025
Project	WHA SIL	Report Number	BK2541506-AA
Project Location	IDEC Asia (Thailand) Co.,Ltd._84_WWT_WHASIL_042_2568		

Sample Number	BK2541506-001
Sampled Date	Dec 01, 2025 01:15 PM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	IDEC Asia (Thailand) Co.,Ltd.
Contract ID	WWT_WHASIL_042_2568
Plot	84
Date of Analysis	Dec 02, 2025
Sampled by	Nonsuwat Konsai (1-204-c-0019)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H_2SO_4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, strong odour, lots of solids, highly turbid

Analytical Results

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	115	≤500	EN0044	Bangkok
COD	mg/L	-	25	240	≤750	EN0046	Bangkok
Oil & Grease	mg/L	-	3	10	≤10	EN0048	Bangkok
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.4	5.5-9	EN0020	Bangkok
Temperature *	°C	-	-	30.7	≤40	EN0097	Bangkok
Total Suspended Solids	mg/L	-	5	34	≤200	EN0102	Bangkok

Guideline : Industrial Land on Criteria of wastewater discharging to central wastewater treatment plant

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

Key :
- 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

Signatories

Siriluk Bunnak, Section Head, 1-204-c-0013

Kanokkorn Anek, Assistant General Manager, 1-204-e-0004

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ALS Laboratory Group (Thailand) Co.,Ltd. Bangkok Life Sciences

Analysis Report

TESTING No.0009

Work Order	BK2541506	Date Received	Dec 01, 2025
Client	WHA Utilities and Power Public Company Limited, 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported	Dec 08, 2025
Project	WHA SIL	Report Number	BK2541506-AA
Project Location	IDEC Asia (Thailand) Co.,Ltd._84_WWT_WHASIL_042_2568		

Sample Number	BK2541506-001
Sampled Date	Dec 01, 2025 01:15 PM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	IDEC Asia (Thailand) Co.,Ltd.
Contract ID	WWT_WHASIL_042_2568
Plot	84
Date of Analysis	Dec 02, 2025
Sampled by	Nonsuwat Konsai (1-204-c-0019)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H_2SO_4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, strong odour, lots of solids, highly turbid

Brief Method Summaries

The methods in the analysis report are short format, refer to full test methods in accordance with the ISO/IEC 17025 certificate no. specified in the analysis report.

Method	Testing Lab	Method Descriptions
EN0020	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0097	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B
EN0102	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

—— END OF REPORT ——

Signatories

Siriluk Bunnak, Section Head, 1-204-c-0013

Kanokkorn Anek, Assistant General Manager, 1-204-e-0004

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ALS Laboratory Group (Thailand) Co.,Ltd. Bangkok Life Sciences

Analysis Report

TESTING No.0009

Work Order	BK2541507	Date Received	Dec 01, 2025
Client	WHA Utilities and Power Public Company Limited, 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported	Dec 08, 2025
Project	WHA SIL	Report Number	BK2541507-AA
Project Location	JCY HDD Technology Co.,Ltd._43,44_WWT_WHASIL_009_2564		

Sample Number	BK2541507-001
Sampled Date	Dec 01, 2025 10:15 AM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	JCY HDD Technology Co.,Ltd.
Contract ID	WWT_WHASIL_009_2564
Plot	43,44
Date of Analysis	Dec 02, 2025
Sampled by	Teeleewat Puangsuk (1-204-c-0061)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H_2SO_4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, some odour, some solids, no turbidity

Analytical Results

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	3.8	≤500	EN0044	Bangkok
COD	mg/L	-	25	<25	≤750	EN0046	Bangkok
Oil & Grease	mg/L	-	3	<3	≤10	EN0048	Bangkok
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	8.0	5.5-9	EN0020	Bangkok
Temperature *	°C	-	-	28.5	≤40	EN0097	Bangkok
Total Suspended Solids	mg/L	-	5	12	≤200	EN0102	Bangkok

Guideline : Industrial Land on Criteria of wastewater discharging to central wastewater treatment plant

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

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

Siriluk Bunnak, Section Head, 1-204-c-0013

Kanokkorn Anek, Assistant General Manager, 1-204-e-0004

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ALS Laboratory Group (Thailand) Co.,Ltd. Bangkok Life Sciences

Analysis Report

TESTING No.0009

Work Order	BK2541507	Date Received	Dec 01, 2025
Client	WHA Utilities and Power Public Company Limited, 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported	Dec 08, 2025
Project	WHA SIL	Report Number	BK2541507-AA
Project Location	JCY HDD Technology Co.,Ltd._43,44_WWT_WHASIL_009_2564		

Sample Number	BK2541507-001
Sampled Date	Dec 01, 2025 10:15 AM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	JCY HDD Technology Co.,Ltd.
Contract ID	WWT_WHASIL_009_2564
Plot	43,44
Date of Analysis	Dec 02, 2025
Sampled by	Teeleewat Puangsuk (1-204-c-0061)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H_2SO_4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, some odour, some solids, no turbidity

Brief Method Summaries

The methods in the analysis report are short format, refer to full test methods in accordance with the ISO/IEC 17025 certificate no. specified in the analysis report.

Method	Testing Lab	Method Descriptions
EN0020	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0097	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B
EN0102	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

—— END OF REPORT ——

Signatories

Siriluk Bunnak, Section Head, 1-204-c-0013

Kanokkorn Anek, Assistant General Manager, 1-204-e-0004

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ALS Laboratory Group (Thailand) Co.,Ltd. Bangkok Life Sciences

Analysis Report

TESTING No.0009

Work Order	BK2541508	Date Received	Dec 09, 2025
Client	WHA Utilities and Power Public Company Limited, 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported	Dec 16, 2025
Project	WHA SIL	Report Number	BK2541508-AA
Project Location	Johnan F. Tech (Thailand) Co.,Ltd._162/1_WWT_WHASIL_034_2568		

Sample Number	BK2541508-001
Sampled Date	Dec 09, 2025 01:15 PM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	Johnan F. Tech (Thailand) Co.,Ltd.
Contract ID	WWT_WHASIL_034_2568
Plot	162/1
Date of Analysis	Dec 11, 2025
Sampled by	Panupong Saensri (1-204-c-0204)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H_2SO_4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, strong odour, some solids, highly turbid

Analytical Results

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	71.9	≤500	EN0044	Bangkok
COD	mg/L	-	25	182	≤750	EN0046	Bangkok
Oil & Grease	mg/L	-	3	<3	≤10	EN0048	Bangkok
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.5	5.5-9	EN0020	Bangkok
Temperature *	°C	-	-	30.7	≤40	EN0097	Bangkok
Total Suspended Solids	mg/L	-	5	15	≤200	EN0102	Bangkok

Guideline : Industrial Land on Criteria of wastewater discharging to central wastewater treatment plant

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

Key :
- 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

Signatories

Siriluk Bunnak, Section Head, 1-204-c-0013

Kanokkorn Anek, Assistant General Manager, 1-204-e-0004

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ALS Laboratory Group (Thailand) Co.,Ltd. Bangkok Life Sciences

Analysis Report

TESTING No.0009

Work Order	BK2541508	Date Received	Dec 09, 2025
Client	WHA Utilities and Power Public Company Limited, 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported	Dec 16, 2025
Project	WHA SIL	Report Number	BK2541508-AA
Project Location	Johnan F. Tech (Thailand) Co.,Ltd._162/1_WWT_WHASIL_034_2568		

Sample Number	BK2541508-001
Sampled Date	Dec 09, 2025 01:15 PM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	Johnan F. Tech (Thailand) Co.,Ltd.
Contract ID	WWT_WHASIL_034_2568
Plot	162/1
Date of Analysis	Dec 11, 2025
Sampled by	Panupong Saensri (1-204-c-0204)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H_2SO_4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, strong odour, some solids, highly turbid

Brief Method Summaries

The methods in the analysis report are short format, refer to full test methods in accordance with the ISO/IEC 17025 certificate no. specified in the analysis report.

Method	Testing Lab	Method Descriptions
EN0020	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0097	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B
EN0102	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

—— END OF REPORT ——

Signatories

Siriluk Bunnak, Section Head, 1-204-c-0013

Kanokkorn Anek, Assistant General Manager, 1-204-e-0004

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Analysis Report

TESTING No.0009

Work Order	BK2541509	Date Received	Dec 01, 2025
Client	WHA Utilities and Power Public Company Limited, 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported	Dec 09, 2025
Project	WHA SIL	Report Number	BK2541509-AA
Project Location	Knauf Gypsum (Thailand) Co.,Ltd._146_WWT_WHASIL_010_2568		

Sample Number	BK2541509-001
Sampled Date	Dec 01, 2025 01:30 PM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	Knauf Gypsum (Thailand) Co.,Ltd.
Contract ID	WWT_WHASIL_010_2568
Plot	146
Date of Analysis	Dec 02, 2025
Sampled by	Panupong Saensri (1-204-c-0204)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H_2SO_4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, strong odour, lots of solids, turbid

Analytical Results

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	20.0	≤500	EN0044	Bangkok
COD	mg/L	-	25	84	≤750	EN0046	Bangkok
Oil & Grease	mg/L	-	3	5	≤10	EN0048	Bangkok
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.8	5.5-9	EN0020	Bangkok
Temperature *	°C	-	-	33.2	≤40	EN0097	Bangkok
Total Suspended Solids	mg/L	-	5	41	≤200	EN0102	Bangkok

Guideline : Industrial Land on Criteria of wastewater discharging to central wastewater treatment plant

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

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

Signatories

Siriluk Bunnak, Section Head, 1-204-c-0013

Kanokkorn Anek, Assistant General Manager, 1-204-e-0004

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Analysis Report

TESTING No.0009

Work Order	BK2541509	Date Received	Dec 01, 2025
Client	WHA Utilities and Power Public Company Limited, 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported	Dec 09, 2025
Project	WHA SIL	Report Number	BK2541509-AA
Project Location	Knauf Gypsum (Thailand) Co.,Ltd._146_WWT_WHASIL_010_2568		

Sample Number	BK2541509-001
Sampled Date	Dec 01, 2025 01:30 PM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	Knauf Gypsum (Thailand) Co.,Ltd.
Contract ID	WWT_WHASIL_010_2568
Plot	146
Date of Analysis	Dec 02, 2025
Sampled by	Panupong Saensri (1-204-c-0204)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H_2SO_4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, strong odour, lots of solids, turbid

Brief Method Summaries

The methods in the analysis report are short format, refer to full test methods in accordance with the ISO/IEC 17025 certificate no. specified in the analysis report.

Method	Testing Lab	Method Descriptions
EN0020	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0097	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B
EN0102	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

—— END OF REPORT ——

Signatories

Siriluk Bunnak, Section Head, 1-204-c-0013

Kanokkorn Anek, Assistant General Manager, 1-204-e-0004

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Analysis Report

TESTING No.0009

Work Order	BK2541510	Date Received	Dec 01, 2025
Client	WHA Utilities and Power Public Company Limited, 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported	Dec 09, 2025
Project	WHA SIL	Report Number	BK2541510-AA
Project Location	Kuramo (Thailand) CO.,LTD._681_WWT_WHASIL_013_2567		

Sample Number	BK2541510-001
Sampled Date	Dec 01, 2025 11:20 AM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	Kuramo (Thailand) CO.,LTD.
Contract ID	WWT_WHASIL_013_2567
Plot	681
Date of Analysis	Dec 02, 2025
Sampled by	Nomsuel Komal (1-204-c-0015)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	black, strong odour, lots of solids, highly turbid

Analytical Results

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	138	≤500	EN0044	Bangkok
COD	mg/L	-	25	342	≤750	EN0046	Bangkok
Oil & Grease	mg/L	-	3	10	≤10	EN0048	Bangkok
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.2	5.5-9	EN0020	Bangkok
Temperature *	°C	-	-	28.2	≤40	EN0097	Bangkok
Total Suspended Solids	mg/L	-	5	158	≤200	EN0102	Bangkok

Guideline : Industrial Land on Criteria of wastewater discharging to central wastewater treatment plant

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

Key :
- 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/IEC17025

Signatories

Sirikik Bunnak, Section Head, 1-204-c-0013

Kanokkorn Anek, Assistant General Manager, 1-204-e-0004

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Analysis Report

TESTING No.0009

Work Order	BK2541510	Date Received	Dec 01, 2025
Client	WHA Utilities and Power Public Company Limited, 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported	Dec 09, 2025
Project	WHA SIL	Report Number	BK2541510-AA
Project Location	Kuramo (Thailand) CO.,LTD._681_WWT_WHASIL_013_2567		

Sample Number	BK2541510-001
Sampled Date	Dec 01, 2025 11:20 AM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	Kuramo (Thailand) CO.,LTD.
Contract ID	WWT_WHASIL_013_2567
Plot	681
Date of Analysis	Dec 02, 2025
Sampled by	Nomsuel Komal (1-204-c-0015)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	black, strong odour, lots of solids, highly turbid

Brief Method Summaries

The methods in the analysis report are short format, refer to full test methods in accordance with the ISO/IEC 17025 certificate no. specified in the analysis report.

Method	Testing Lab	Method Descriptions
EN0020	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0097	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B
EN0102	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

——— END OF REPORT ———

Signatories

Sirikik Bunnak, Section Head, 1-204-c-0013

Kanokkorn Anek, Assistant General Manager, 1-204-e-0004

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Analysis Report

TESTING No.0009

Work Order	BK2541511	Date Received	Dec 02, 2025
Client	WHA Utilities and Power Public Company Limited, 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported	Dec 11, 2025
Project	WHA SIL	Report Number	BK2541511-AA
Project Location	Maxion Wheels (Thailand) Co.,Ltd._16,82,40_WWT_WHASIL_016_2564		

Sample Number	BK2541511-001
Sampled Date	Dec 02, 2025 01:10 PM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	Maxion Wheels (Thailand) Co.,Ltd.
Contract ID	WWT_WHASIL_016_2564
Plot	16,82,40
Date of Analysis	Dec 03, 2025
Sampled by	Teerawat Puangsuk (1-204-c-0061)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, some odour, some solids, no turbidity

Analytical Results

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	41.9	≤500	EN0044	Bangkok
COD	mg/L	-	25	147	≤750	EN0046	Bangkok
Oil & Grease	mg/L	-	3	6	≤10	EN0048	Bangkok
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.2	5.5-9	EN0020	Bangkok
Temperature *	°C	-	-	28.0	≤40	EN0097	Bangkok
Total Suspended Solids	mg/L	-	5	12	≤200	EN0102	Bangkok

Guideline : Industrial Land on Criteria of wastewater discharging to central wastewater treatment plant

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

Key :
- 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/IEC17025

Signatories

Nanthawadee Somboon, Specialist 2, 1-204-c-0010

Kanokkorn Anek, Assistant General Manager, 1-204-e-0004

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

Analysis Report

TESTING No.0009

Work Order	BK2541511	Date Received	Dec 02, 2025
Client	WHA Utilities and Power Public Company Limited, 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported	Dec 11, 2025
Project	WHA SIL	Report Number	BK2541511-AA
Project Location	Maxion Wheels (Thailand) Co.,Ltd._16,82,40_WWT_WHASIL_016_2564		

Sample Number	BK2541511-001
Sampled Date	Dec 02, 2025 01:10 PM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	Maxion Wheels (Thailand) Co.,Ltd.
Contract ID	WWT_WHASIL_016_2564
Plot	16,82,40
Date of Analysis	Dec 03, 2025
Sampled by	Teerawat Puangsuk (1-204-c-0061)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, some odour, some solids, no turbidity

Brief Method Summaries

The methods in the analysis report are short format, refer to full test methods in accordance with the ISO/IEC 17025 certificate no. specified in the analysis report.

Method	Testing Lab	Method Descriptions
EN0020	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0097	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B
EN0102	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

——— END OF REPORT ———

Signatories

Nanthawadee Somboon, Specialist 2, 1-204-c-0010

Kanokkorn Anek, Assistant General Manager, 1-204-e-0004

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

Analysis Report

TESTING No.0009

Work Order	BK2541512	Date Received	Dec 01, 2025
Client	WHA Utilities and Power Public Company Limited, 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported	Dec 09, 2025
Project	WHA SIL	Report Number	BK2541512-AA
Project Location	Michelin ROH Co.,Ltd._85_WWT_WHASIL_011_2564		

Sample Number	BK2541512-001
Sampled Date	Dec 01, 2025 12:00 PM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	Michelin ROH Co.,Ltd.
Contract ID	WWT_WHASIL_011_2564
Plot	85
Date of Analysis	Dec 02, 2025
Sampled by	Nomsuel Komal (1-204-c-0015)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, strong odour, lots of solids, highly turbid

Analytical Results

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	132	≤500	EN0044	Bangkok
COD	mg/L	-	25	220	≤750	EN0046	Bangkok
Oil & Grease	mg/L	-	3	10	≤10	EN0048	Bangkok
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.8	5.5-9	EN0020	Bangkok
Temperature *	°C	-	-	29.9	≤40	EN0097	Bangkok
Total Suspended Solids	mg/L	-	5	97	≤200	EN0102	Bangkok

Guideline : Industrial Land on Criteria of wastewater discharging to central wastewater treatment plant

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

Key :
- 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/IEC17025

Signatories

Sirikik Bunnak, Section Head, 1-204-c-0013

Kanokkorn Anek, Assistant General Manager, 1-204-e-0004

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

Analysis Report

TESTING No.0009

Work Order	BK2541512	Date Received	Dec 01, 2025
Client	WHA Utilities and Power Public Company Limited, 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported	Dec 09, 2025
Project	WHA SIL	Report Number	BK2541512-AA
Project Location	Michelin ROH Co.,Ltd._85_WWT_WHASIL_011_2564		

Sample Number	BK2541512-001
Sampled Date	Dec 01, 2025 12:00 PM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	Michelin ROH Co.,Ltd.
Contract ID	WWT_WHASIL_011_2564
Plot	85
Date of Analysis	Dec 02, 2025
Sampled by	Nomsuel Komal (1-204-c-0015)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, strong odour, lots of solids, highly turbid

Brief Method Summaries

The methods in the analysis report are short format, refer to full test methods in accordance with the ISO/IEC 17025 certificate no. specified in the analysis report.

Method	Testing Lab	Method Descriptions
EN0020	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0097	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B
EN0102	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

——— END OF REPORT ———

Signatories

Sirikik Bunnak, Section Head, 1-204-c-0013

Kanokkorn Anek, Assistant General Manager, 1-204-e-0004

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

Analysis Report

TESTING No.0009

Work Order	BK2541513	Date Received	Dec 01, 2025
Client	WHA Utilities and Power Public Company Limited, 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported	Dec 08, 2025
Project	WHA SIL	Report Number	BK2541513-AA
Project Location	Michelin Siam Co.,Ltd._17_WWT_WHASIL_002_2560		

Sample Number	BK2541513-001
Sampled Date	Dec 01, 2025 11:40 AM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	Michelin Siam Co.,Ltd.
Contract ID	WWT_WHASIL_002_2560
Plot	17
Date of Analysis	Dec 02, 2025
Sampled by	Teerawat Puangsuk (1-204-c-0061)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, some odour, some solids, no turbidity

Analytical Results

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	14.8	≤500	EN0044	Bangkok
COD	mg/L	-	25	70	≤750	EN0046	Bangkok
Oil & Grease	mg/L	-	3	<3	≤10	EN0048	Bangkok
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	8.3	5.5-9	EN0020	Bangkok
Temperature *	°C	-	-	30.4	≤40	EN0097	Bangkok
Total Suspended Solids	mg/L	-	5	11	≤200	EN0102	Bangkok

Guideline : Industrial Land on Criteria of wastewater discharging to central wastewater treatment plant

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

Key :
- 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/IEC17025

Signatories

Sirikik Bunnak, Section Head, 1-204-c-0013

Kanokkorn Anek, Assistant General Manager, 1-204-e-0004

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

Analysis Report

TESTING No.0009

Work Order	BK2541513	Date Received	Dec 01, 2025
Client	WHA Utilities and Power Public Company Limited, 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported	Dec 08, 2025
Project	WHA SIL	Report Number	BK2541513-AA
Project Location	Michelin Siam Co.,Ltd._17_WWT_WHASIL_002_2560		

Sample Number	BK2541513-001
Sampled Date	Dec 01, 2025 11:40 AM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	Michelin Siam Co.,Ltd.
Contract ID	WWT_WHASIL_002_2560
Plot	17
Date of Analysis	Dec 02, 2025
Sampled by	Teerawat Puangsuk (1-204-c-0061)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, some odour, some solids, no turbidity

Brief Method Summaries

The methods in the analysis report are short format, refer to full test methods in accordance with the ISO/IEC 17025 certificate no. specified in the analysis report.

Method	Testing Lab	Method Descriptions
EN0020	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0097	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B
EN0102	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

——— END OF REPORT ———

Signatories

Sirikik Bunnak, Section Head, 1-204-c-0013

Kanokkorn Anek, Assistant General Manager, 1-204-e-0004

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

Analysis Report

TESTING No.0009

Work Order	BK2541514	Date Received	Dec 01, 2025
Client	WHA Utilities and Power Public Company Limited, 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported	Dec 09, 2025
Project	WHA SIL	Report Number	BK2541514-AA
Project Location	Michelin Siam Co.,Ltd. (1st)_5,83,82_WWT_WHASIL_013_2564		

Sample Number	BK2541514-001
Sampled Date	Dec 01, 2025 11:35 AM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	Michelin Siam Co.,Ltd. (1st)
Contract ID	WWT_WHASIL_013_2564
Plot	5,83,82
Date of Analysis	Dec 02, 2025
Sampled by	Teerawat Puangsuk (1-204-c-0061)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, some odour, some solids, no turbidity

Analytical Results

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	7.5	≤500	EN0044	Bangkok
COD	mg/L	-	25	44	≤750	EN0046	Bangkok
Oil & Grease	mg/L	-	3	<3	≤10	EN0048	Bangkok
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	8.8	5.5-9	EN0020	Bangkok
Temperature *	°C	-	-	35.8	≤45	EN0097	Bangkok
Total Dissolved Solids at 180°C	mg/L	-	5	312	≤3000	EN0100	Bangkok
Total Suspended Solids	mg/L	-	5	10	≤200	EN0102	Bangkok

Guideline : Industrial Land on Criteria of wastewater discharging to central wastewater treatment plant

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

Key :
- 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/IEC17025

Signatories

Sirikik Bunnak, Section Head, 1-204-c-0013

Kanokkorn Anek, Assistant General Manager, 1-204-e-0004

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.

TESTING No.0009

Analysis Report

Work Order	BK2541514	Date Received	Dec 01, 2025
Client	WHA Utilities and Power Public Company Limited 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported	Dec 09, 2025
Project	WHA SIL	Report Number	BK2541514-AA
Project Location	Michelin Siam Co.,Ltd. (1st)_5,65,92_WWT_WHASIL_013_2564		

Sample Number: BK2541514-001
Sampled Date: Dec 01, 2025 11:35 AM
Sample Name: Group 2 Wastewater WW-CT
Sampling Site: Michelin Siam Co.,Ltd. (1st)
Contract ID: WWT_WHASIL_013_2564
Plot: 5,65,92
Date of Analysis: Dec 02, 2025
Sampled by: Teerawat Puangsuk (1-204-s-0061)
Condition of Sample: 1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties: yellow, some odour, some solids, no turbidity

Brief Method Summaries

The methods in the analysis report are short format, refer to full test methods in accordance with the ISO/IEC 17025 certificate no. specified in the analysis report.

Method	Testing Lab	Method Descriptions
EN0020	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0097	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B
EN0100	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C
EN0102	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

——— END OF REPORT ———

Signatories

Sirikuk Bunnak, Section Head, 1-204-s-0013
Kanokkorn Anek, Assistant General Manager, 1-204-e-0004

TESTING No.0009

Analysis Report

Work Order	BK2541515	Date Received	Dec 01, 2025
Client	WHA Utilities and Power Public Company Limited 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported	Dec 09, 2025
Project	WHA SIL	Report Number	BK2541515-AA
Project Location	Miyago Industry (Thailand) Co.,Ltd._136_WWT_WHASIL_003_2566		

Sample Number: BK2541515-001
Sampled Date: Dec 01, 2025 09:10 AM
Sample Name: Group 2 Wastewater WW-CT
Sampling Site: Miyago Industry (Thailand) Co.,Ltd.
Contract ID: WWT_WHASIL_003_2566
Plot: 136
Date of Analysis: Dec 02, 2025
Sampled by: Panupong Saenot (1-204-s-0204)
Condition of Sample: 1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties: yellow, strong odour, some solids, turbid

Analytical Results

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	19.9	≤500	EN0044	Bangkok
COD	mg/L	-	25	87	≤750	EN0046	Bangkok
Oil & Grease	mg/L	-	3	<3	≤10	EN0048	Bangkok
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.7	5.5-9	EN0020	Bangkok
Temperature *	°C	-	-	28.3	≤40	EN0097	Bangkok
Total Suspended Solids	mg/L	-	5	14	≤200	EN0102	Bangkok

Guideline: Industrial Land on Criteria of wastewater discharging to central wastewater treatment plant
Comment: Sampling is not included in scope of accreditation ISO/IEC 17025
Key:
- 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

Signatories

Sirikuk Bunnak, Section Head, 1-204-s-0013
Kanokkorn Anek, Assistant General Manager, 1-204-e-0004

TESTING No.0009

Analysis Report

Work Order	BK2541515	Date Received	Dec 01, 2025
Client	WHA Utilities and Power Public Company Limited 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported	Dec 09, 2025
Project	WHA SIL	Report Number	BK2541515-AA
Project Location	Miyago Industry (Thailand) Co.,Ltd._136_WWT_WHASIL_003_2566		

Sample Number: BK2541515-001
Sampled Date: Dec 01, 2025 09:10 AM
Sample Name: Group 2 Wastewater WW-CT
Sampling Site: Miyago Industry (Thailand) Co.,Ltd.
Contract ID: WWT_WHASIL_003_2566
Plot: 136
Date of Analysis: Dec 02, 2025
Sampled by: Panupong Saenot (1-204-s-0204)
Condition of Sample: 1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties: yellow, strong odour, some solids, turbid

Brief Method Summaries

The methods in the analysis report are short format, refer to full test methods in accordance with the ISO/IEC 17025 certificate no. specified in the analysis report.

Method	Testing Lab	Method Descriptions
EN0020	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0097	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B
EN0102	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

——— END OF REPORT ———

Signatories

Sirikuk Bunnak, Section Head, 1-204-s-0013
Kanokkorn Anek, Assistant General Manager, 1-204-e-0004

TESTING No.0009

Analysis Report

Work Order	BK2541517	Date Received	Dec 01, 2025
Client	WHA Utilities and Power Public Company Limited 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported	Dec 09, 2025
Project	WHA SIL	Report Number	BK2541517-AA
Project Location	Muto (Thailand) Co.,Ltd._160, 161, 162, 166, 168_WWT_WHASIL_048_2566		

Sample Number: BK2541517-001
Sampled Date: Dec 01, 2025 11:20 AM
Sample Name: Group 2 Wastewater WW-CT
Sampling Site: Muto (Thailand) Co.,Ltd.
Contract ID: WWT_WHASIL_048_2566
Plot: 160, 161, 162, 166, 168
Date of Analysis: Dec 02, 2025
Sampled by: Panupong Saenot (1-204-s-0204)
Condition of Sample: 1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties: yellow, strong odour, some solids, turbid

Analytical Results

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	44.1	≤500	EN0044	Bangkok
COD	mg/L	-	25	129	≤750	EN0046	Bangkok
Oil & Grease	mg/L	-	3	<3	≤10	EN0048	Bangkok
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.5	5.5-9	EN0020	Bangkok
Temperature *	°C	-	-	29.9	≤40	EN0097	Bangkok
Total Suspended Solids	mg/L	-	5	22	≤200	EN0102	Bangkok

Guideline: Industrial Land on Criteria of wastewater discharging to central wastewater treatment plant
Comment: Sampling is not included in scope of accreditation ISO/IEC 17025
Key:
- 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

Signatories

Sirikuk Bunnak, Section Head, 1-204-s-0013
Kanokkorn Anek, Assistant General Manager, 1-204-e-0004

TESTING No.0009

Analysis Report

Work Order	BK2541517	Date Received	Dec 01, 2025
Client	WHA Utilities and Power Public Company Limited 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported	Dec 09, 2025
Project	WHA SIL	Report Number	BK2541517-AA
Project Location	Muto (Thailand) Co.,Ltd._160, 161, 162, 166, 168_WWT_WHASIL_048_2566		

Sample Number: BK2541517-001
Sampled Date: Dec 01, 2025 11:20 AM
Sample Name: Group 2 Wastewater WW-CT
Sampling Site: Muto (Thailand) Co.,Ltd.
Contract ID: WWT_WHASIL_048_2566
Plot: 160, 161, 162, 166, 168
Date of Analysis: Dec 02, 2025
Sampled by: Panupong Saenot (1-204-s-0204)
Condition of Sample: 1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties: yellow, strong odour, some solids, turbid

Brief Method Summaries

The methods in the analysis report are short format, refer to full test methods in accordance with the ISO/IEC 17025 certificate no. specified in the analysis report.

Method	Testing Lab	Method Descriptions
EN0020	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0097	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B
EN0102	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

——— END OF REPORT ———

Signatories

Sirikuk Bunnak, Section Head, 1-204-s-0013
Kanokkorn Anek, Assistant General Manager, 1-204-e-0004

TESTING No.0009

Analysis Report

Work Order	BK2541518	Date Received	Dec 01, 2025
Client	WHA Utilities and Power Public Company Limited 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported	Dec 09, 2025
Project	WHA SIL	Report Number	BK2541518-AA
Project Location	Newoplastic Industries Co., Ltd._8_WWT_WHASIL_006_2565		

Sample Number: BK2541518-001
Sampled Date: Dec 01, 2025 08:30 AM
Sample Name: Group 2 Wastewater WW-CT
Sampling Site: Newoplastic Industries Co., Ltd.
Contract ID: WWT_WHASIL_006_2565
Plot: 8
Date of Analysis: Dec 02, 2025
Sampled by: Teerawat Puangsuk (1-204-s-0061)
Condition of Sample: 1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties: yellow, strong odour, some solids, turbid

Analytical Results

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	11.4	≤500	EN0044	Bangkok
COD	mg/L	-	25	80	≤750	EN0046	Bangkok
Oil & Grease	mg/L	-	3	<3	≤10	EN0048	Bangkok
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.0	5.5-9	EN0020	Bangkok
Temperature *	°C	-	-	28.1	≤40	EN0097	Bangkok
Total Suspended Solids	mg/L	-	5	19	≤200	EN0102	Bangkok

Guideline: Industrial Land on Criteria of wastewater discharging to central wastewater treatment plant
Comment: Sampling is not included in scope of accreditation ISO/IEC 17025
Key:
- 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

Signatories

Sirikuk Bunnak, Section Head, 1-204-s-0013
Kanokkorn Anek, Assistant General Manager, 1-204-e-0004

TESTING No.0009

Analysis Report

Work Order	BK2541518	Date Received	Dec 01, 2025
Client	WHA Utilities and Power Public Company Limited 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported	Dec 09, 2025
Project	WHA SIL	Report Number	BK2541518-AA
Project Location	Newoplastic Industries Co., Ltd._8_WWT_WHASIL_006_2565		

Sample Number: BK2541518-001
Sampled Date: Dec 01, 2025 08:30 AM
Sample Name: Group 2 Wastewater WW-CT
Sampling Site: Newoplastic Industries Co., Ltd.
Contract ID: WWT_WHASIL_006_2565
Plot: 8
Date of Analysis: Dec 02, 2025
Sampled by: Teerawat Puangsuk (1-204-s-0061)
Condition of Sample: 1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties: yellow, strong odour, some solids, turbid

Brief Method Summaries

The methods in the analysis report are short format, refer to full test methods in accordance with the ISO/IEC 17025 certificate no. specified in the analysis report.

Method	Testing Lab	Method Descriptions
EN0020	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0097	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B
EN0102	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

——— END OF REPORT ———

Signatories

Sirikuk Bunnak, Section Head, 1-204-s-0013
Kanokkorn Anek, Assistant General Manager, 1-204-e-0004

TESTING No.0009

Analysis Report

Work Order	BK2541519	Date Received	Dec 02, 2025
Client	WHA Utilities and Power Public Company Limited 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported	Dec 11, 2025
Project	WHA SIL	Report Number	BK2541519-AA
Project Location	Nidec Component Technology(Thailand) Co., Ltd._80, 81_WWT_WHASIL_066_2564		

Sample Number: BK2541519-001
Sampled Date: Dec 02, 2025 09:40 AM
Sample Name: Group 2 Wastewater WW-CT
Sampling Site: Nidec Component Technology(Thailand) Co., Ltd.
Contract ID: WWT_WHASIL_066_2564
Plot: 80, 81
Date of Analysis: Dec 03, 2025
Sampled by: Teerawat Puangsuk (1-204-s-0061)
Condition of Sample: 1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties: colourless, odourless, no solids, no turbidity

Analytical Results

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	7.5	≤500	EN0044	Bangkok
COD	mg/L	-	25	47	≤750	EN0046	Bangkok
Oil & Grease	mg/L	-	3	3	≤10	EN0048	Bangkok
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.6	5.5-9	EN0020	Bangkok
Temperature *	°C	-	-	27.4	≤40	EN0097	Bangkok
Total Suspended Solids	mg/L	-	5	<5	≤200	EN0102	Bangkok

Guideline: Industrial Land on Criteria of wastewater discharging to central wastewater treatment plant
Comment: Sampling is not included in scope of accreditation ISO/IEC 17025
Key:
- 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

Signatories

Narthsasdee Somboon, Specialist 2, 1-204-s-0010
Kanokkorn Anek, Assistant General Manager, 1-204-e-0004

TESTING No.0009

Analysis Report

Work Order	BK2541519	Date Received	Dec 02, 2025
Client	WHA Utilities and Power Public Company Limited 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported	Dec 11, 2025
Project	WHA SIL	Report Number	BK2541519-AA
Project Location	Nidec Component Technology(Thailand) Co., Ltd._80, 81_WWT_WHASIL_066_2564		

Sample Number: BK2541519-001
Sampled Date: Dec 02, 2025 09:40 AM
Sample Name: Group 2 Wastewater WW-CT
Sampling Site: Nidec Component Technology(Thailand) Co., Ltd.
Contract ID: WWT_WHASIL_066_2564
Plot: 80, 81
Date of Analysis: Dec 03, 2025
Sampled by: Teerawat Puangsuk (1-204-s-0061)
Condition of Sample: 1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties: colourless, odourless, no solids, no turbidity

Brief Method Summaries

The methods in the analysis report are short format, refer to full test methods in accordance with the ISO/IEC 17025 certificate no. specified in the analysis report.

Method	Testing Lab	Method Descriptions
EN0020	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0097	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B
EN0102	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

——— END OF REPORT ———

Signatories

Narthsasdee Somboon, Specialist 2, 1-204-s-0010
Kanokkorn Anek, Assistant General Manager, 1-204-e-0004

Analysis Report

TESTING No.0009

Work Order	BK2541520	Date Received	Dec 01, 2025
Client	WHA Utilities and Power Public Company Limited, 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported	Dec 09, 2025
Project	WHA SIL	Report Number	BK2541520-AA
Project Location	Nihonichi Food (Thailand) Co.,Ltd._68_WWT_WHASIL_007_2565		

Sample Number	BK2541520-001
Sampled Date	Dec 01, 2025 11:40 AM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	Nihonichi Food (Thailand) Co.,Ltd.
Contract ID	WWT_WHASIL_007_2565
Plot	68
Date of Analysis	Dec 02, 2025
Sampled by	Nomsawi Komal (1-204-c-0015)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	colourless, some odour, no solids, no turbidity

Analytical Results

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	<2.0	≤500	EN0044	Bangkok
COD	mg/L	-	25	<25	≤750	EN0046	Bangkok
Oil & Grease	mg/L	-	3	<3	≤10	EN0048	Bangkok
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.3	5.5-9	EN0020	Bangkok
Temperature *	°C	-	-	28.3	≤45	EN0097	Bangkok
Total Suspended Solids	mg/L	-	5	20	≤200	EN0102	Bangkok

Guideline : Industrial Land on Criteria of wastewater discharging to central wastewater treatment plant

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

Key :
- 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/IEC17025

Signatories

Sirikik Bunnak	Kanokkorn Anek
Section Head	Assistant General Manager
1-204-c-0013	1-204-e-0004

Analysis Report

TESTING No.0009

Work Order	BK2541520	Date Received	Dec 01, 2025
Client	WHA Utilities and Power Public Company Limited, 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported	Dec 09, 2025
Project	WHA SIL	Report Number	BK2541520-AA
Project Location	Nihonichi Food (Thailand) Co.,Ltd._68_WWT_WHASIL_007_2565		

Sample Number	BK2541520-001
Sampled Date	Dec 01, 2025 11:40 AM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	Nihonichi Food (Thailand) Co.,Ltd.
Contract ID	WWT_WHASIL_007_2565
Plot	68
Date of Analysis	Dec 02, 2025
Sampled by	Nomsawi Komal (1-204-c-0015)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	colourless, some odour, no solids, no turbidity

Brief Method Summaries

The methods in the analysis report are short format, refer to full test methods in accordance with the ISO/IEC 17025 certificate no. specified in the analysis report.

Method	Testing Lab	Method Descriptions
EN0020	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0097	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B
EN0102	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

——— END OF REPORT ———

Signatories

Sirikik Bunnak	Kanokkorn Anek
Section Head	Assistant General Manager
1-204-c-0013	1-204-e-0004

Analysis Report

TESTING No.0009

Work Order	BK2541521	Date Received	Dec 01, 2025
Client	WHA Utilities and Power Public Company Limited, 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported	Dec 09, 2025
Project	WHA SIL	Report Number	BK2541521-AA
Project Location	Nikon (Thailand) Co.,Ltd._93C_WWT_WHASIL_083_2568		

Sample Number	BK2541521-001
Sampled Date	Dec 01, 2025 11:20 AM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	Nikon (Thailand) Co.,Ltd.
Contract ID	WWT_WHASIL_083_2568
Plot	93C
Date of Analysis	Dec 02, 2025
Sampled by	Teerawat Puangsuk (1-204-c-0061)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, some odour, some solids, turbid

Analytical Results

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	15.1	≤500	EN0044	Bangkok
COD	mg/L	-	25	62	≤750	EN0046	Bangkok
Oil & Grease	mg/L	-	3	<3	≤10	EN0048	Bangkok
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	8.7	5.5-9	EN0020	Bangkok
Temperature *	°C	-	-	27.9	≤45	EN0097	Bangkok
Total Suspended Solids	mg/L	-	5	20	≤200	EN0102	Bangkok

Guideline : Industrial Land on Criteria of wastewater discharging to central wastewater treatment plant

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

Key :
- 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/IEC17025

Signatories

Sirikik Bunnak	Kanokkorn Anek
Section Head	Assistant General Manager
1-204-c-0013	1-204-e-0004

Analysis Report

TESTING No.0009

Work Order	BK2541521	Date Received	Dec 01, 2025
Client	WHA Utilities and Power Public Company Limited, 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported	Dec 09, 2025
Project	WHA SIL	Report Number	BK2541521-AA
Project Location	Nikon (Thailand) Co.,Ltd._93C_WWT_WHASIL_083_2568		

Sample Number	BK2541521-001
Sampled Date	Dec 01, 2025 11:20 AM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	Nikon (Thailand) Co.,Ltd.
Contract ID	WWT_WHASIL_083_2568
Plot	93C
Date of Analysis	Dec 02, 2025
Sampled by	Teerawat Puangsuk (1-204-c-0061)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, some odour, some solids, turbid

Brief Method Summaries

The methods in the analysis report are short format, refer to full test methods in accordance with the ISO/IEC 17025 certificate no. specified in the analysis report.

Method	Testing Lab	Method Descriptions
EN0020	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0097	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B
EN0102	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

——— END OF REPORT ———

Signatories

Sirikik Bunnak	Kanokkorn Anek
Section Head	Assistant General Manager
1-204-c-0013	1-204-e-0004

Analysis Report

TESTING No.0009

Work Order	BK2541522	Date Received	Dec 09, 2025
Client	WHA Utilities and Power Public Company Limited, 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported	Dec 16, 2025
Project	WHA SIL	Report Number	BK2541522-AA
Project Location	Noritake SA (Thailand) Co.,Ltd._21_WWT_WHASIL_040_2568		

Sample Number	BK2541522-001
Sampled Date	Dec 09, 2025 11:15 AM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	Noritake SA (Thailand) Co.,Ltd.
Contract ID	WWT_WHASIL_040_2568
Plot	21
Date of Analysis	Dec 11, 2025
Sampled by	Panupong Saensri (1-204-c-0204)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, some odour, some solids, no turbidity

Analytical Results

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	5.3	≤500	EN0044	Bangkok
COD	mg/L	-	25	35	≤750	EN0046	Bangkok
Oil & Grease	mg/L	-	3	<3	≤10	EN0048	Bangkok
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	8.8	5.5-9	EN0020	Bangkok
Temperature *	°C	-	-	27.8	≤45	EN0097	Bangkok
Total Suspended Solids	mg/L	-	5	<5	≤200	EN0102	Bangkok

Guideline : Industrial Land on Criteria of wastewater discharging to central wastewater treatment plant

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

Key :
- 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/IEC17025

Signatories

Sirikik Bunnak	Kanokkorn Anek
Section Head	Assistant General Manager
1-204-c-0013	1-204-e-0004

Analysis Report

TESTING No.0009

Work Order	BK2541522	Date Received	Dec 09, 2025
Client	WHA Utilities and Power Public Company Limited, 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported	Dec 16, 2025
Project	WHA SIL	Report Number	BK2541522-AA
Project Location	Noritake SA (Thailand) Co.,Ltd._21_WWT_WHASIL_040_2568		

Sample Number	BK2541522-001
Sampled Date	Dec 09, 2025 11:15 AM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	Noritake SA (Thailand) Co.,Ltd.
Contract ID	WWT_WHASIL_040_2568
Plot	21
Date of Analysis	Dec 11, 2025
Sampled by	Panupong Saensri (1-204-c-0204)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, some odour, some solids, no turbidity

Brief Method Summaries

The methods in the analysis report are short format, refer to full test methods in accordance with the ISO/IEC 17025 certificate no. specified in the analysis report.

Method	Testing Lab	Method Descriptions
EN0020	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0097	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B
EN0102	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

——— END OF REPORT ———

Signatories

Sirikik Bunnak	Kanokkorn Anek
Section Head	Assistant General Manager
1-204-c-0013	1-204-e-0004

Analysis Report

TESTING No.0009

Work Order	BK2541523	Date Received	Dec 09, 2025
Client	WHA Utilities and Power Public Company Limited, 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported	Dec 16, 2025
Project	WHA SIL	Report Number	BK2541523-AA
Project Location	Noritake SCG Plaster Co.,Ltd._20_WWT_WHASIL_019_2564		

Sample Number	BK2541523-001
Sampled Date	Dec 09, 2025 01:10 PM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	Noritake SCG Plaster Co.,Ltd.
Contract ID	WWT_WHASIL_019_2564
Plot	20
Date of Analysis	Dec 11, 2025
Sampled by	Panupong Saensri (1-204-c-0204)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, some odour, some solids, no turbidity

Analytical Results

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	14.0	≤500	EN0044	Bangkok
COD	mg/L	-	25	54	≤750	EN0046	Bangkok
Oil & Grease	mg/L	-	3	6	≤10	EN0048	Bangkok
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.4	5.5-9	EN0020	Bangkok
Temperature *	°C	-	-	29.6	≤45	EN0097	Bangkok
Total Dissolved Solids at 180°C	mg/L	-	5	1112	≤3000	EN0100	Bangkok
Total Suspended Solids	mg/L	-	5	8	≤200	EN0102	Bangkok

Guideline : Industrial Land on Criteria of wastewater discharging to central wastewater treatment plant

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

Key :
- 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/IEC17025

Signatories

Sirikik Bunnak	Kanokkorn Anek
Section Head	Assistant General Manager
1-204-c-0013	1-204-e-0004

Analysis Report

TESTING No.0009

Work Order	BK2541523	Date Received	Dec 09, 2025
Client	WHA Utilities and Power Public Company Limited, 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported	Dec 16, 2025
Project	WHA SIL	Report Number	BK2541523-AA
Project Location	Noritake SCG Plaster Co.,Ltd._20_WWT_WHASIL_019_2564		

Sample Number	BK2541523-001
Sampled Date	Dec 09, 2025 01:10 PM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	Noritake SCG Plaster Co.,Ltd.
Contract ID	WWT_WHASIL_019_2564
Plot	20
Date of Analysis	Dec 11, 2025
Sampled by	Panupong Saensri (1-204-c-0204)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, some odour, some solids, no turbidity

Brief Method Summaries

The methods in the analysis report are short format, refer to full test methods in accordance with the ISO/IEC 17025 certificate no. specified in the analysis report.

Method	Testing Lab	Method Descriptions
EN0020	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0097	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B
EN0100	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C
EN0102	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

——— END OF REPORT ———

Signatories

Sirikik Bunnak	Kanokkorn Anek
Section Head	Assistant General Manager
1-204-c-0013	1-204-e-0004

Analysis Report

TESTING No.0009

Work Order	BK2541524	Date Received	Dec 01, 2025
Client	WHA Utilities and Power Public Company Limited, 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported	Dec 09, 2025
Project	WHA SIL	Report Number	BK2541524-AA
Project Location	NX SHOJI (THAILAND) CO., LTD._142/2_WWT_WHASIL_007_2560		

Sample Number	BK2541524-001
Sampled Date	Dec 01, 2025 10:25 AM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	NX SHOJI (THAILAND) CO., LTD.
Contract ID	WWT_WHASIL_007_2560
Plot	142/2
Date of Analysis	Dec 02, 2025
Sampled by	Panupong Saensri (1-204-c-0204)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, strong odour, lots of solids, highly turbid

Analytical Results

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	26.5	≤500	EN0044	Bangkok
COD	mg/L	-	25	480	≤750	EN0046	Bangkok
Oil & Grease	mg/L	-	3	<3	≤10	EN0048	Bangkok
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.4	5.5-9	EN0020	Bangkok
Temperature *	°C	-	-	27.8	≤45	EN0097	Bangkok
Total Suspended Solids	mg/L	-	5	87	≤200	EN0102	Bangkok

Guideline : Industrial Land on Criteria of wastewater discharging to central wastewater treatment plant

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

Key :
- 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/IEC17025

Signatories

Sirikik Bunnak	Kanokkorn Anek
Section Head	Assistant General Manager
1-204-c-0013	1-204-e-0004

Analysis Report

TESTING No.0009

Work Order : **BK2541524** | Date Received : Dec 01, 2025
Client : WHA Utilities and Power Public Company Limited | Date Reported : Dec 09, 2025
111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140 | Report Number : BK2541524-AA
Project : WHA SIL
Project Location : NX SHOJI (THAILAND) CO., LTD._142/2_WWT_WHASIL_007_2560

Sample Number : BK2541524-001
Sampled Date : Dec 01, 2025 10:25 AM
Sample Name : Group 2 Wastewater WW-CT
Sampling Site : NX SHOJI (THAILAND) CO., LTD.
Contract ID : WWT_WHASIL_007_2560
Plot : 142/2
Date of Analysis : Dec 02, 2025
Sampled by : Panupong Saenot (1-204-c-0204)
Condition of Sample : 1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H_2SO_4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties : yellow, strong odour, lots of solids, highly turbid

Brief Method Summaries

The methods in the analysis report are short format, refer to full test methods in accordance with the ISO/IEC 17025 certificate no. specified in the analysis report.

Method	Testing Lab	Method Descriptions
EN0020	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0097	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B
EN0102	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

——— END OF REPORT ———

Signatories

Sirilak Bunnak, Section Head, 1-204-c-0013
Kanokkorn Anek, Assistant General Manager, 1-204-e-0004

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

ALS Laboratory Group (Thailand) Co.,Ltd. Bangkok Life Sciences

Analysis Report

TESTING No.0009

Work Order : **BK2541525** | Date Received : Dec 01, 2025
Client : WHA Utilities and Power Public Company Limited | Date Reported : Dec 09, 2025
111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140 | Report Number : BK2541525-AA
Project : WHA SIL
Project Location : NX SHOJI (THAILAND) CO., LTD._142/4_WWT_WHASIL_008_2560

Sample Number : BK2541525-001
Sampled Date : Dec 01, 2025 10:30 AM
Sample Name : Group 2 Wastewater WW-CT
Sampling Site : NX SHOJI (THAILAND) CO., LTD.
Contract ID : WWT_WHASIL_008_2560
Plot : 142/4
Date of Analysis : Dec 02, 2025
Sampled by : Panupong Saenot (1-204-c-0204)
Condition of Sample : 1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H_2SO_4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties : yellow, strong odour, lots of solids, highly turbid

Analytical Results

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	192	≤500	EN0044	Bangkok
COD	mg/L	-	25	814	≤750	EN0046	Bangkok
Oil & Grease	mg/L	-	3	20	≤10	EN0048	Bangkok
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.1	5.5-9	EN0020	Bangkok
Temperature *	°C	-	-	28.2	≤45	EN0097	Bangkok
Total Suspended Solids	mg/L	-	5	892	≤200	EN0102	Bangkok

Guideline : Industrial Land on Criteria of wastewater discharging to central wastewater treatment plant
Comment : Sampling is not included in scope of accreditation ISO/IEC 17025
Key :
- 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

Signatories

Sirilak Bunnak, Section Head, 1-204-c-0013
Kanokkorn Anek, Assistant General Manager, 1-204-e-0004

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ALS Laboratory Group (Thailand) Co.,Ltd. Bangkok Life Sciences

Analysis Report

TESTING No.0009

Work Order : **BK2541525** | Date Received : Dec 01, 2025
Client : WHA Utilities and Power Public Company Limited | Date Reported : Dec 09, 2025
111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140 | Report Number : BK2541525-AA
Project : WHA SIL
Project Location : NX SHOJI (THAILAND) CO., LTD._142/4_WWT_WHASIL_008_2560

Sample Number : BK2541525-001
Sampled Date : Dec 01, 2025 10:30 AM
Sample Name : Group 2 Wastewater WW-CT
Sampling Site : NX SHOJI (THAILAND) CO., LTD.
Contract ID : WWT_WHASIL_008_2560
Plot : 142/4
Date of Analysis : Dec 02, 2025
Sampled by : Panupong Saenot (1-204-c-0204)
Condition of Sample : 1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H_2SO_4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties : yellow, strong odour, lots of solids, highly turbid

Brief Method Summaries

The methods in the analysis report are short format, refer to full test methods in accordance with the ISO/IEC 17025 certificate no. specified in the analysis report.

Method	Testing Lab	Method Descriptions
EN0020	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0097	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B
EN0102	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

——— END OF REPORT ———

Signatories

Sirilak Bunnak, Section Head, 1-204-c-0013
Kanokkorn Anek, Assistant General Manager, 1-204-e-0004

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ALS Laboratory Group (Thailand) Co.,Ltd. Bangkok Life Sciences

Analysis Report

TESTING No.0009

Work Order : **BK2541528** | Date Received : Dec 01, 2025
Client : WHA Utilities and Power Public Company Limited | Date Reported : Dec 11, 2025
111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140 | Report Number : BK2541528-AA
Project : WHA SIL
Project Location : Ready Clean Co.,Ltd._38_WWT_WHASIL_063_2564

Sample Number : BK2541528-001
Sampled Date : Dec 01, 2025 08:45 AM
Sample Name : Group 2 Wastewater WW-CT
Sampling Site : Ready Clean Co.,Ltd.
Contract ID : WWT_WHASIL_063_2564
Plot : 38
Date of Analysis : Dec 02, 2025
Sampled by : Teeraset Pluangsuk (1-204-c-0061)
Condition of Sample : 2x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H_2SO_4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties : yellow, some odour, no solids, no turbidity

Analytical Results

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	9.0	≤500	EN0044	Bangkok
COD	mg/L	-	25	36	≤750	EN0046	Bangkok
Oil & Grease	mg/L	-	3	<3	≤10	EN0048	Bangkok
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	8.0	5.5-9	EN0020	Bangkok
Temperature *	°C	-	-	23.9	≤45	EN0097	Bangkok
Total Suspended Solids	mg/L	-	5	<5	≤200	EN0102	Bangkok

Guideline : Industrial Land on Criteria of wastewater discharging to central wastewater treatment plant
Comment : Sampling is not included in scope of accreditation ISO/IEC 17025
Key :
- 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

Signatories

Narthawadee Somboon, Specialist 2, 1-204-c-0010
Kanokkorn Anek, Assistant General Manager, 1-204-e-0004

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

ALS Laboratory Group (Thailand) Co.,Ltd. Bangkok Life Sciences

Analysis Report

TESTING No.0009

Work Order : **BK2541528** | Date Received : Dec 01, 2025
Client : WHA Utilities and Power Public Company Limited | Date Reported : Dec 11, 2025
111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140 | Report Number : BK2541528-AA
Project : WHA SIL
Project Location : Ready Clean Co.,Ltd._38_WWT_WHASIL_063_2564

Sample Number : BK2541528-001
Sampled Date : Dec 01, 2025 08:45 AM
Sample Name : Group 2 Wastewater WW-CT
Sampling Site : Ready Clean Co.,Ltd.
Contract ID : WWT_WHASIL_063_2564
Plot : 38
Date of Analysis : Dec 02, 2025
Sampled by : Teeraset Pluangsuk (1-204-c-0061)
Condition of Sample : 2x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H_2SO_4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties : yellow, some odour, no solids, no turbidity

Brief Method Summaries

The methods in the analysis report are short format, refer to full test methods in accordance with the ISO/IEC 17025 certificate no. specified in the analysis report.

Method	Testing Lab	Method Descriptions
EN0020	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0097	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B
EN0102	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

——— END OF REPORT ———

Signatories

Narthawadee Somboon, Specialist 2, 1-204-c-0010
Kanokkorn Anek, Assistant General Manager, 1-204-e-0004

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

ALS Laboratory Group (Thailand) Co.,Ltd. Bangkok Life Sciences

Analysis Report

TESTING No.0009

Work Order : **BK2541528** | Date Received : Dec 01, 2025
Client : WHA Utilities and Power Public Company Limited | Date Reported : Dec 11, 2025
111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140 | Report Number : BK2541528-AB
Project : WHA SIL
Project Location : Ready Clean Co.,Ltd._38_WWT_WHASIL_063_2564

Sample Number : BK2541528-001
Sampled Date : Dec 01, 2025 08:45 AM
Sample Name : Group 2 Wastewater WW-CT
Sampling Site : Ready Clean Co.,Ltd.
Contract ID : WWT_WHASIL_063_2564
Plot : 38
Date of Analysis : Dec 02, 2025
Sampled by : Teeraset Pluangsuk
Condition of Sample : 2x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H_2SO_4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties : yellow, some odour, no solids, no turbidity

Analytical Results

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
Anionic Surfactants as MBAS	mg/L	-	0.05	1.15	≤30	EN0043	Bangkok

Guideline : Industrial Land on Criteria of wastewater discharging to central wastewater treatment plant
Key :
- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)

Brief Method Summaries

The methods in the analysis report are short format, refer to full test methods in accordance with the ISO/IEC 17025 certificate no. specified in the analysis report.

Method	Testing Lab	Method Descriptions
EN0043	Bangkok	Based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5540 B, C

——— END OF REPORT ———

Signatories

Narthawadee Somboon, Specialist 2

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

ALS Laboratory Group (Thailand) Co.,Ltd. Bangkok Life Sciences

Analysis Report

TESTING No.0009

Work Order : **BK2541531** | Date Received : Dec 02, 2025
Client : WHA Utilities and Power Public Company Limited | Date Reported : Dec 11, 2025
111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140 | Report Number : BK2541531-AA
Project : WHA SIL
Project Location : Rohm Mechatech (Thailand) Co.,Ltd._138_WWT_WHASIL_047_2566

Sample Number : BK2541531-001
Sampled Date : Dec 02, 2025 08:50 AM
Sample Name : Group 2 Wastewater WW-CT
Sampling Site : Rohm Mechatech (Thailand) Co.,Ltd.
Contract ID : WWT_WHASIL_047_2566
Plot : 138
Date of Analysis : Dec 03, 2025
Sampled by : Teeraset Pluangsuk (1-204-c-0061)
Condition of Sample : 1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H_2SO_4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties : yellow, some odour, some solids, turbid

Analytical Results

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	78.2	≤500	EN0044	Bangkok
COD	mg/L	-	25	166	≤750	EN0046	Bangkok
Oil & Grease	mg/L	-	3	<3	≤10	EN0048	Bangkok
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.6	5.5-9	EN0020	Bangkok
Temperature *	°C	-	-	28.5	≤45	EN0097	Bangkok
Total Suspended Solids	mg/L	-	5	29	≤200	EN0102	Bangkok

Guideline : Industrial Land on Criteria of wastewater discharging to central wastewater treatment plant
Comment : Sampling is not included in scope of accreditation ISO/IEC 17025
Key :
- 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

Signatories

Narthawadee Somboon, Specialist 2, 1-204-c-0010
Kanokkorn Anek, Assistant General Manager, 1-204-e-0004

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

ALS Laboratory Group (Thailand) Co.,Ltd. Bangkok Life Sciences

Analysis Report

TESTING No.0009

Work Order : **BK2541531** | Date Received : Dec 02, 2025
Client : WHA Utilities and Power Public Company Limited | Date Reported : Dec 11, 2025
111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140 | Report Number : BK2541531-AA
Project : WHA SIL
Project Location : Rohm Mechatech (Thailand) Co.,Ltd._138_WWT_WHASIL_047_2566

Sample Number : BK2541531-001
Sampled Date : Dec 02, 2025 08:50 AM
Sample Name : Group 2 Wastewater WW-CT
Sampling Site : Rohm Mechatech (Thailand) Co.,Ltd.
Contract ID : WWT_WHASIL_047_2566
Plot : 138
Date of Analysis : Dec 03, 2025
Sampled by : Teeraset Pluangsuk (1-204-c-0061)
Condition of Sample : 1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H_2SO_4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties : yellow, some odour, some solids, turbid

Brief Method Summaries

The methods in the analysis report are short format, refer to full test methods in accordance with the ISO/IEC 17025 certificate no. specified in the analysis report.

Method	Testing Lab	Method Descriptions
EN0020	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0097	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B
EN0102	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

——— END OF REPORT ———

Signatories

Narthawadee Somboon, Specialist 2, 1-204-c-0010
Kanokkorn Anek, Assistant General Manager, 1-204-e-0004

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

ALS Laboratory Group (Thailand) Co.,Ltd. Bangkok Life Sciences

Analysis Report

TESTING No.0009

Work Order : **BK2541532** | Date Received : Dec 01, 2025
Client : WHA Utilities and Power Public Company Limited | Date Reported : Dec 09, 2025
111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140 | Report Number : BK2541532-AA
Project : WHA SIL
Project Location : SCG Ceramics Co.,Ltd._91_WWT_WHASIL_001_2560

Sample Number : BK2541532-001
Sampled Date : Dec 01, 2025 11:00 AM
Sample Name : Group 2 Wastewater WW-CT
Sampling Site : SCG Ceramics Co.,Ltd.
Contract ID : WWT_WHASIL_001_2560
Plot : 91
Date of Analysis : Dec 02, 2025
Sampled by : Teeraset Pluangsuk (1-204-c-0061)
Condition of Sample : 1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H_2SO_4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties : yellow, odourless, some solids, no turbidity

Analytical Results

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	<2.0	≤500	EN0044	Bangkok
COD	mg/L	-	25	<25	≤750	EN0046	Bangkok
Oil & Grease	mg/L	-	3	<3	≤10	EN0048	Bangkok
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	6.9	5.5-9	EN0020	Bangkok
Temperature *	°C	-	-	28.2	≤45	EN0097	Bangkok
Total Suspended Solids	mg/L	-	5	<5	≤200	EN0102	Bangkok

Guideline : Industrial Land on Criteria of wastewater discharging to central wastewater treatment plant
Comment : Sampling is not included in scope of accreditation ISO/IEC 17025
Key :
- 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

Signatories

Sirilak Bunnak, Section Head, 1-204-c-0013
Kanokkorn Anek, Assistant General Manager, 1-204-e-0004

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ALS Laboratory Group (Thailand) Co.,Ltd. Bangkok Life Sciences

Analysis Report

TESTING No.0009

Work Order	BK2541532	Date Received	Dec 01, 2025
Client	WHA Utilities and Power Public Company Limited, 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported	Dec 09, 2025
Project	WHA SIL	Report Number	BK2541532-AA
Project Location	SCG Ceramics Co.,Ltd._01_WWT_WHASIL_001_2565		

Brief Method Summaries

The methods in the analysis report are short format, refer to full test methods in accordance with the ISO/IEC 17025 certificate no. specified in the analysis report.

Method	Testing Lab	Method Descriptions
EN0020	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0097	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B
EN0102	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

—— END OF REPORT ——

Signatories

Sirikik P — Sirikuk Bunnak, Section Head, 1-204-c-0013

Kanokkorn Anek, Assistant General Manager, 1-204-e-0004

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

Analysis Report

TESTING No.0009

Work Order	BK2541534	Date Received	Dec 01, 2025
Client	WHA Utilities and Power Public Company Limited, 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported	Dec 09, 2025
Project	WHA SIL	Report Number	BK2541534-AA
Project Location	SCG Landscape_14_WWT_WHASIL_001_2565		

Sample Number	BK2541534-001
Sampled Date	Dec 01, 2025 09:30 AM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	SCG Landscape
Contract ID	WWT_WHASIL_001_2565
Plot	14
Date of Analysis	Dec 02, 2025
Sampled by	Teerawat Puangsuk (1-204-c-0061)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H_2SO_4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	black, strong odour, some solids, turbid

Analytical Results

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	2.4	≤500	EN0044	Bangkok
COD	mg/L	-	25	<25	≤750	EN0046	Bangkok
Oil & Grease	mg/L	-	3	<3	≤10	EN0048	Bangkok
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	6.8	5.5-9	EN0020	Bangkok
Temperature *	°C	-	-	29.4	≤40	EN0097	Bangkok
Total Suspended Solids	mg/L	-	5	<5	≤200	EN0102	Bangkok

Guideline : Industrial Land on Criteria of wastewater discharging to central wastewater treatment plant

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

Key :
- 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

Signatories

Sirikuk Bunnak, Section Head, 1-204-c-0013

Kanokkorn Anek, Assistant General Manager, 1-204-e-0004

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

Analysis Report

TESTING No.0009

Work Order	BK2541534	Date Received	Dec 01, 2025
Client	WHA Utilities and Power Public Company Limited, 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported	Dec 09, 2025
Project	WHA SIL	Report Number	BK2541534-AA
Project Location	SCG Landscape_14_WWT_WHASIL_001_2565		

Sample Number	BK2541534-001
Sampled Date	Dec 01, 2025 09:30 AM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	SCG Landscape
Contract ID	WWT_WHASIL_001_2565
Plot	14
Date of Analysis	Dec 02, 2025
Sampled by	Teerawat Puangsuk (1-204-c-0061)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H_2SO_4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	black, strong odour, some solids, turbid

Brief Method Summaries

The methods in the analysis report are short format, refer to full test methods in accordance with the ISO/IEC 17025 certificate no. specified in the analysis report.

Method	Testing Lab	Method Descriptions
EN0020	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0097	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B
EN0102	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

—— END OF REPORT ——

Signatories

Sirikuk Bunnak, Section Head, 1-204-c-0013

Kanokkorn Anek, Assistant General Manager, 1-204-e-0004

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Analysis Report

TESTING No.0009

Work Order	BK2541535	Date Received	Dec 01, 2025
Client	WHA Utilities and Power Public Company Limited, 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported	Dec 09, 2025
Project	WHA SIL	Report Number	BK2541535-AA
Project Location	SCG Roofing Co.,Ltd._10, 11_WWT_WHASIL_002_2564		

Sample Number	BK2541535-001
Sampled Date	Dec 01, 2025 08:50 AM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	SCG Roofing Co.,Ltd
Contract ID	WWT_WHASIL_002_2564
Plot	10, 11
Date of Analysis	Dec 02, 2025
Sampled by	Teerawat Puangsuk (1-204-c-0061)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H_2SO_4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, some odour, some solids, turbid

Analytical Results

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	13.6	≤500	EN0044	Bangkok
COD	mg/L	-	25	72	≤750	EN0046	Bangkok
Oil & Grease	mg/L	-	3	<3	≤10	EN0048	Bangkok
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	8.5	5.5-9	EN0020	Bangkok
Temperature *	°C	-	-	27.6	≤40	EN0097	Bangkok
Total Suspended Solids	mg/L	-	5	8	≤200	EN0102	Bangkok

Guideline : Industrial Land on Criteria of wastewater discharging to central wastewater treatment plant

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

Key :
- 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

Signatories

Sirikuk Bunnak, Section Head, 1-204-c-0013

Kanokkorn Anek, Assistant General Manager, 1-204-e-0004

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Analysis Report

TESTING No.0009

Work Order	BK2541535	Date Received	Dec 01, 2025
Client	WHA Utilities and Power Public Company Limited, 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported	Dec 09, 2025
Project	WHA SIL	Report Number	BK2541535-AA
Project Location	SCG Roofing Co.,Ltd._10, 11_WWT_WHASIL_002_2564		

Sample Number	BK2541535-001
Sampled Date	Dec 01, 2025 08:50 AM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	SCG Roofing Co.,Ltd
Contract ID	WWT_WHASIL_002_2564
Plot	10, 11
Date of Analysis	Dec 02, 2025
Sampled by	Teerawat Puangsuk (1-204-c-0061)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H_2SO_4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, some odour, some solids, turbid

Brief Method Summaries

The methods in the analysis report are short format, refer to full test methods in accordance with the ISO/IEC 17025 certificate no. specified in the analysis report.

Method	Testing Lab	Method Descriptions
EN0020	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0097	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B
EN0102	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

—— END OF REPORT ——

Signatories

Sirikuk Bunnak, Section Head, 1-204-c-0013

Kanokkorn Anek, Assistant General Manager, 1-204-e-0004

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Analysis Report

TESTING No.0009

Work Order	BK2541536	Date Received	Dec 01, 2025
Client	WHA Utilities and Power Public Company Limited, 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported	Dec 09, 2025
Project	WHA SIL	Report Number	BK2541536-AA
Project Location	SCG Roofing Co.,Ltd._19.41_WWT_WHASIL_025_2564		

Sample Number	BK2541536-001
Sampled Date	Dec 01, 2025 10:55 AM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	SCG Roofing Co.,Ltd
Contract ID	WWT_WHASIL_025_2564
Plot	19.41
Date of Analysis	Dec 02, 2025
Sampled by	Teerawat Puangsuk (1-204-c-0061)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H_2SO_4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, some odour, some solids, no turbidity

Analytical Results

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	<2.0	≤500	EN0044	Bangkok
COD	mg/L	-	25	<25	≤750	EN0046	Bangkok
Oil & Grease	mg/L	-	3	<3	≤10	EN0048	Bangkok
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	8.7	5.5-9	EN0020	Bangkok
Temperature *	°C	-	-	26.2	≤40	EN0097	Bangkok
Total Suspended Solids	mg/L	-	5	<5	≤200	EN0102	Bangkok

Guideline : Industrial Land on Criteria of wastewater discharging to central wastewater treatment plant

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

Key :
- 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

Signatories

Sirikuk Bunnak, Section Head, 1-204-c-0013

Kanokkorn Anek, Assistant General Manager, 1-204-e-0004

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Analysis Report

TESTING No.0009

Work Order	BK2541536	Date Received	Dec 01, 2025
Client	WHA Utilities and Power Public Company Limited, 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported	Dec 09, 2025
Project	WHA SIL	Report Number	BK2541536-AA
Project Location	SCG Roofing Co.,Ltd._19.41_WWT_WHASIL_025_2564		

Sample Number	BK2541536-001
Sampled Date	Dec 01, 2025 10:55 AM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	SCG Roofing Co.,Ltd
Contract ID	WWT_WHASIL_025_2564
Plot	19.41
Date of Analysis	Dec 02, 2025
Sampled by	Teerawat Puangsuk (1-204-c-0061)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H_2SO_4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, some odour, some solids, no turbidity

Brief Method Summaries

The methods in the analysis report are short format, refer to full test methods in accordance with the ISO/IEC 17025 certificate no. specified in the analysis report.

Method	Testing Lab	Method Descriptions
EN0020	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0097	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B
EN0102	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

—— END OF REPORT ——

Signatories

Sirikuk Bunnak, Section Head, 1-204-c-0013

Kanokkorn Anek, Assistant General Manager, 1-204-e-0004

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Analysis Report

TESTING No.0009

Work Order	BK2541540	Date Received	Dec 01, 2025
Client	WHA Utilities and Power Public Company Limited, 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported	Dec 09, 2025
Project	WHA SIL	Report Number	BK2541540-AA
Project Location	Scholee Technology (Thailand) Company Limited_27D_WWT_WHASIL_006_2566		

Sample Number	BK2541540-001
Sampled Date	Dec 01, 2025 10:45 AM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	Scholee Technology (Thailand) Company Limited
Contract ID	WWT_WHASIL_006_2566
Plot	27D
Date of Analysis	Dec 02, 2025
Sampled by	Panupong Saenoi (1-204-c-0204)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H_2SO_4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, strong odour, some solids, turbid

Analytical Results

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	19.7	≤500	EN0044	Bangkok
COD	mg/L	-	25	90	≤750	EN0046	Bangkok
Oil & Grease	mg/L	-	3	3	≤10	EN0048	Bangkok
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.8	5.5-9	EN0020	Bangkok
Temperature *	°C	-	-	28.8	≤40	EN0097	Bangkok
Total Suspended Solids	mg/L	-	5	25	≤200	EN0102	Bangkok

Guideline : Industrial Land on Criteria of wastewater discharging to central wastewater treatment plant

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

Key :
- 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

Signatories

Sirikuk Bunnak, Section Head, 1-204-c-0013

Kanokkorn Anek, Assistant General Manager, 1-204-e-0004

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Analysis Report

TESTING No.0009

Work Order	BK2541540	Date Received	Dec 01, 2025
Client	WHA Utilities and Power Public Company Limited, 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported	Dec 09, 2025
Project	WHA SIL	Report Number	BK2541540-AA
Project Location	Scholee Technology (Thailand) Company Limited_27D_WWT_WHASIL_006_2566		

Sample Number	BK2541540-001
Sampled Date	Dec 01, 2025 10:45 AM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	Scholee Technology (Thailand) Company Limited
Contract ID	WWT_WHASIL_006_2566
Plot	27D
Date of Analysis	Dec 02, 2025
Sampled by	Panupong Saenoi (1-204-c-0204)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H_2SO_4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, strong odour, some solids, turbid

Brief Method Summaries

The methods in the analysis report are short format, refer to full test methods in accordance with the ISO/IEC 17025 certificate no. specified in the analysis report.

Method	Testing Lab	Method Descriptions
EN0020	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0097	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B
EN0102	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

—— END OF REPORT ——

Signatories

Sirikuk Bunnak, Section Head, 1-204-c-0013

Kanokkorn Anek, Assistant General Manager, 1-204-e-0004

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

Analysis Report

TESTING No.0009

Work Order	BK2541543	Date Received	Dec 09, 2025
Client	WHA Utilities and Power Public Company Limited 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported	Dec 16, 2025
Project	WHA SIL	Report Number	BK2541543-AA
Project Location	SEKI Corp (Thailand) Co.,Ltd._61,62_WWT_WHASIL_015_2568		

Sample Number	BK2541543-001
Sampled Date	Dec 09, 2025 11:45 AM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	SEKI Corp (Thailand) Co.,Ltd.
Contract ID	WWT_WHASIL_015_2568
Plot	61,62
Date of Analysis	Dec 11, 2025
Sampled by	Panupong Saenot (1-204-c-0204)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H_2SO_4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, strong odour, lots of solids, turbid

Analytical Results

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	13.3	≤500	EN0044	Bangkok
COD	mg/L	-	25	40	≤750	EN0046	Bangkok
Oil & Grease	mg/L	-	3	<3	≤10	EN0048	Bangkok
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.5	5.5-9	EN0020	Bangkok
Temperature *	°C	-	-	28.3	≤40	EN0097	Bangkok
Total Suspended Solids	mg/L	-	5	16	≤200	EN0102	Bangkok

Guideline : Industrial Land on Criteria of wastewater discharging to central wastewater treatment plant

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

Key :
- 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

Signatories

Siriluk Bunnak, Section Head, 1-204-c-0013 — Kanokkorn Anek, Assistant General Manager, 1-204-e-0004

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

Analysis Report

TESTING No.0009

Work Order	BK2541543	Date Received	Dec 09, 2025
Client	WHA Utilities and Power Public Company Limited 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported	Dec 16, 2025
Project	WHA SIL	Report Number	BK2541543-AA
Project Location	SEKI Corp (Thailand) Co.,Ltd._61,62_WWT_WHASIL_015_2568		

Sample Number	BK2541543-001
Sampled Date	Dec 09, 2025 11:45 AM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	SEKI Corp (Thailand) Co.,Ltd.
Contract ID	WWT_WHASIL_015_2568
Plot	61,62
Date of Analysis	Dec 11, 2025
Sampled by	Panupong Saenot (1-204-c-0204)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H_2SO_4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, strong odour, lots of solids, turbid

Brief Method Summaries

The methods in the analysis report are short format, refer to full test methods in accordance with the ISO/IEC 17025 certificate no. specified in the analysis report.

Method	Testing Lab	Method Descriptions
EN0020	Bangkok	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Bangkok	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Bangkok	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Bangkok	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0097	Bangkok	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2550 B
EN0102	Bangkok	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

—— END OF REPORT ——

Signatories

Siriluk Bunnak, Section Head, 1-204-c-0013 — Kanokkorn Anek, Assistant General Manager, 1-204-e-0004

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Analysis Report

TESTING No.0009

Work Order	BK2541544	Date Received	Dec 09, 2025
Client	WHA Utilities and Power Public Company Limited 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported	Dec 16, 2025
Project	WHA SIL	Report Number	BK2541544-AA
Project Location	Sekisui Plastics (Thailand) Co.,Ltd._66_WWT_WHASIL_067_2568		

Sample Number	BK2541544-001
Sampled Date	Dec 09, 2025 11:35 AM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	Sekisui Plastics (Thailand) Co.,Ltd.
Contract ID	WWT_WHASIL_067_2568
Plot	66
Date of Analysis	Dec 11, 2025
Sampled by	Panupong Saenot (1-204-c-0204)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H_2SO_4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, some odour, some solids, turbid

Analytical Results

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	13.5	≤500	EN0044	Bangkok
COD	mg/L	-	25	66	≤750	EN0046	Bangkok
Oil & Grease	mg/L	-	3	<3	≤10	EN0048	Bangkok
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.8	5.5-9	EN0020	Bangkok
Temperature *	°C	-	-	30.0	≤40	EN0097	Bangkok
Total Suspended Solids	mg/L	-	5	15	≤200	EN0102	Bangkok

Guideline : Industrial Land on Criteria of wastewater discharging to central wastewater treatment plant

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

Key :
- 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

Signatories

Siriluk Bunnak, Section Head, 1-204-c-0013 — Kanokkorn Anek, Assistant General Manager, 1-204-e-0004

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

Analysis Report

TESTING No.0009

Work Order	BK2541544	Date Received	Dec 09, 2025
Client	WHA Utilities and Power Public Company Limited 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported	Dec 16, 2025
Project	WHA SIL	Report Number	BK2541544-AA
Project Location	Sekisui Plastics (Thailand) Co.,Ltd._66_WWT_WHASIL_067_2568		

Sample Number	BK2541544-001
Sampled Date	Dec 09, 2025 11:35 AM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	Sekisui Plastics (Thailand) Co.,Ltd.
Contract ID	WWT_WHASIL_067_2568
Plot	66
Date of Analysis	Dec 11, 2025
Sampled by	Panupong Saenot (1-204-c-0204)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H_2SO_4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, some odour, some solids, turbid

Brief Method Summaries

The methods in the analysis report are short format, refer to full test methods in accordance with the ISO/IEC 17025 certificate no. specified in the analysis report.

Method	Testing Lab	Method Descriptions
EN0020	Bangkok	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Bangkok	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Bangkok	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Bangkok	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0097	Bangkok	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2550 B
EN0102	Bangkok	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

—— END OF REPORT ——

Signatories

Siriluk Bunnak, Section Head, 1-204-c-0013 — Kanokkorn Anek, Assistant General Manager, 1-204-e-0004

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

Analysis Report

TESTING No.0009

Work Order	BK2541546	Date Received	Dec 01, 2025
Client	WHA Utilities and Power Public Company Limited 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported	Dec 08, 2025
Project	WHA SIL	Report Number	BK2541546-AA
Project Location	Sekisui-SCG Industrial Co.,Ltd._144,145_WWT_WHASIL_071_2567		

Sample Number	BK2541546-001
Sampled Date	Dec 01, 2025 01:50 PM
Sample Name	Group 2 Wastewater WW-CT : Point 1
Sampling Site	Sekisui-SCG Industrial Co.,Ltd.
Contract ID	WWT_WHASIL_071_2567
Plot	144,145
Date of Analysis	Dec 02, 2025
Sampled by	Panupong Saenot (1-204-c-0204)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H_2SO_4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	colourless, some odour, some solids, no turbidity

Analytical Results

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	<2.0	≤500	EN0044	Bangkok
COD	mg/L	-	25	<25	≤750	EN0046	Bangkok
Oil & Grease	mg/L	-	3	<3	≤10	EN0048	Bangkok
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	8.1	5.5-9	EN0020	Bangkok
Temperature *	°C	-	-	24.6	≤40	EN0097	Bangkok
Total Suspended Solids	mg/L	-	5	<5	≤200	EN0102	Bangkok

Guideline : Industrial Land on Criteria of wastewater discharging to central wastewater treatment plant

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

Key :
- 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

Signatories

Siriluk Bunnak, Section Head, 1-204-c-0013 — Kanokkorn Anek, Assistant General Manager, 1-204-e-0004

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

Analysis Report

TESTING No.0009

Work Order	BK2541546	Date Received	Dec 01, 2025
Client	WHA Utilities and Power Public Company Limited 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported	Dec 08, 2025
Project	WHA SIL	Report Number	BK2541546-AA
Project Location	Sekisui-SCG Industrial Co.,Ltd._144,145_WWT_WHASIL_071_2567		

Sample Number	BK2541546-001
Sampled Date	Dec 01, 2025 01:50 PM
Sample Name	Group 2 Wastewater WW-CT : Point 1
Sampling Site	Sekisui-SCG Industrial Co.,Ltd.
Contract ID	WWT_WHASIL_071_2567
Plot	144,145
Date of Analysis	Dec 02, 2025
Sampled by	Panupong Saenot (1-204-c-0204)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H_2SO_4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	colourless, some odour, some solids, no turbidity

Brief Method Summaries

The methods in the analysis report are short format, refer to full test methods in accordance with the ISO/IEC 17025 certificate no. specified in the analysis report.

Method	Testing Lab	Method Descriptions
EN0020	Bangkok	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Bangkok	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Bangkok	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Bangkok	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0097	Bangkok	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2550 B
EN0102	Bangkok	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

—— END OF REPORT ——

Signatories

Siriluk Bunnak, Section Head, 1-204-c-0013 — Kanokkorn Anek, Assistant General Manager, 1-204-e-0004

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

Analysis Report

TESTING No.0009

Work Order	BK2541547	Date Received	Dec 01, 2025
Client	WHA Utilities and Power Public Company Limited 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported	Dec 08, 2025
Project	WHA SIL	Report Number	BK2541547-AA
Project Location	Sekisui-SCG Industrial Co.,Ltd._144,145_WWT_WHASIL_006_2568		

Sample Number	BK2541547-001
Sampled Date	Dec 01, 2025 01:40 PM
Sample Name	Group 2 Wastewater WW-CT : Point 2
Sampling Site	Sekisui-SCG Industrial Co.,Ltd.
Contract ID	WWT_WHASIL_006_2568
Plot	144,145
Date of Analysis	Dec 02, 2025
Sampled by	Panupong Saenot (1-204-c-0204)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H_2SO_4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	colourless, some odour, some solids, no turbidity

Analytical Results

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	<2.0	≤500	EN0044	Bangkok
COD	mg/L	-	25	<25	≤750	EN0046	Bangkok
Oil & Grease	mg/L	-	3	<3	≤10	EN0048	Bangkok
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	8.2	5.5-9	EN0020	Bangkok
Temperature *	°C	-	-	28.2	≤40	EN0097	Bangkok
Total Suspended Solids	mg/L	-	5	8	≤200	EN0102	Bangkok

Guideline : Industrial Land on Criteria of wastewater discharging to central wastewater treatment plant

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

Key :
- 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

Signatories

Siriluk Bunnak, Section Head, 1-204-c-0013 — Kanokkorn Anek, Assistant General Manager, 1-204-e-0004

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

Analysis Report

TESTING No.0009

Work Order	BK2541547	Date Received	Dec 01, 2025
Client	WHA Utilities and Power Public Company Limited 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported	Dec 08, 2025
Project	WHA SIL	Report Number	BK2541547-AA
Project Location	Sekisui-SCG Industrial Co.,Ltd._144,145_WWT_WHASIL_006_2568		

Sample Number	BK2541547-001
Sampled Date	Dec 01, 2025 01:40 PM
Sample Name	Group 2 Wastewater WW-CT : Point 2
Sampling Site	Sekisui-SCG Industrial Co.,Ltd.
Contract ID	WWT_WHASIL_006_2568
Plot	144,145
Date of Analysis	Dec 02, 2025
Sampled by	Panupong Saenot (1-204-c-0204)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H_2SO_4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	colourless, some odour, some solids, no turbidity

Brief Method Summaries

The methods in the analysis report are short format, refer to full test methods in accordance with the ISO/IEC 17025 certificate no. specified in the analysis report.

Method	Testing Lab	Method Descriptions
EN0020	Bangkok	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Bangkok	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Bangkok	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Bangkok	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0097	Bangkok	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2550 B
EN0102	Bangkok	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

—— END OF REPORT ——

Signatories

Siriluk Bunnak, Section Head, 1-204-c-0013 — Kanokkorn Anek, Assistant General Manager, 1-204-e-0004

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

Analysis Report

TESTING No.0009

Work Order	BK2541548	Date Received	Dec 01, 2025
Client	WHA Utilities and Power Public Company Limited 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported	Dec 09, 2025
Project	WHA SIL	Report Number	BK2541548-AA
Project Location	Shibakawa (Thailand) Co.,Ltd._58_WWT_WHASIL_068_2567		

Sample Number	BK2541548-001
Sampled Date	Dec 01, 2025 11:10 AM
Sample Name	Group 2 Wastewater WW-CT : Point 2
Sampling Site	Shibakawa (Thailand) Co.,Ltd.
Contract ID	WWT_WHASIL_068_2567
Plot	58
Date of Analysis	Dec 02, 2025
Sampled by	Nomwan Komol (1-204-c-0015)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H_2SO_4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, strong odour, some solids, no turbidity

Analytical Results

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	15.8	≤500	EN0044	Bangkok
COD	mg/L	-	25	70	≤750	EN0046	Bangkok
Oil & Grease	mg/L	-	3	<3	≤10	EN0048	Bangkok
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.8	5.5-9	EN0020	Bangkok
Temperature *	°C	-	-	28.7	≤40	EN0097	Bangkok
Total Suspended Solids	mg/L	-	5	8	≤200	EN0102	Bangkok

Guideline : Industrial Land on Criteria of wastewater discharging to central wastewater treatment plant

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

Key :
- 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

Signatories

Siriluk Bunnak, Section Head, 1-204-c-0013 — Kanokkorn Anek, Assistant General Manager, 1-204-e-0004

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

Analysis Report

TESTING No.0009

Work Order	BK2541548	Date Received	Dec 01, 2025
Client	WHA Utilities and Power Public Company Limited, 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported	Dec 09, 2025
Project	WHA SIL	Report Number	BK2541548-AA
Project Location	Shibukawa (Thailand) Co.,Ltd._58_WWT_WHASIL_588_2567		

Sample Number	BK2541548-001
Sampled Date	Dec 01, 2025 11:18 AM
Sample Name	Group 2 Wastewater WW-CT : Point 2
Sampling Site	Shibukawa (Thailand) Co.,Ltd.
Contract ID	WWT_WHASIL_588_2567
Plot	58
Date of Analysis	Dec 02, 2025
Sampled by	Nomsawi Komal (1-204-c-0015)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, strong odour, some solids, no turbidity

Brief Method Summaries

The methods in the analysis report are short format, refer to full test methods in accordance with the ISO/IEC 17025 certificate no. specified in the analysis report.

Method	Testing Lab	Method Descriptions
EN0020	Bangkok	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Bangkok	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Bangkok	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Bangkok	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0097	Bangkok	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 2550 B
EN0102	Bangkok	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

——— END OF REPORT ———

Signatories

Sirluk Burnak	Kanokkorn Anek
Section Head	Assistant General Manager
1-204-c-0013	1-204-e-0004

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Analysis Report

TESTING No.0009

Work Order	BK2541550	Date Received	Dec 01, 2025
Client	WHA Utilities and Power Public Company Limited, 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported	Dec 09, 2025
Project	WHA SIL	Report Number	BK2541550-AA
Project Location	Shinentech (WCT Co.,Ltd.)_150_WWT_WHASIL_081_2567		

Sample Number	BK2541550-001
Sampled Date	Dec 01, 2025 10:45 AM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	Shinentech (WCT Co.,Ltd.)
Contract ID	WWT_WHASIL_081_2567
Plot	150
Date of Analysis	Dec 02, 2025
Sampled by	Teerawat Puangsuk (1-204-c-0061)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, odourless, lots of solids, turbid

Analytical Results

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	<2.0	≤500	EN0044	Bangkok
COD	mg/L	-	25	46	≤750	EN0046	Bangkok
Oil & Grease	mg/L	-	3	<3	≤10	EN0048	Bangkok
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	6.8	5.5-9	EN0020	Bangkok
Temperature *	°C	-	-	28.8	≤45	EN0097	Bangkok
Total Suspended Solids	mg/L	-	5	10	≤200	EN0102	Bangkok

Guideline : Industrial Land on Criteria of wastewater discharging to central wastewater treatment plant

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

Key :
- 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/IEC17025

Signatories

Sirluk Burnak	Kanokkorn Anek
Section Head	Assistant General Manager
1-204-c-0013	1-204-e-0004

[illegible]

Analysis Report

TESTING No.0009

Work Order	BK2541550	Date Received	Dec 01, 2025
Client	WHA Utilities and Power Public Company Limited, 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported	Dec 09, 2025
Project	WHA SIL	Report Number	BK2541550-AA
Project Location	Shinentech (WCT Co.,Ltd.)_150_WWT_WHASIL_081_2567		

Sample Number	BK2541550-001
Sampled Date	Dec 01, 2025 10:45 AM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	Shinentech (WCT Co.,Ltd.)
Contract ID	WWT_WHASIL_081_2567
Plot	150
Date of Analysis	Dec 02, 2025
Sampled by	Teerawat Puangsuk (1-204-c-0061)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, odourless, lots of solids, turbid

Brief Method Summaries

The methods in the analysis report are short format, refer to full test methods in accordance with the ISO/IEC 17025 certificate no. specified in the analysis report.

Method	Testing Lab	Method Descriptions
EN0020	Bangkok	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Bangkok	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Bangkok	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Bangkok	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0097	Bangkok	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 2550 B
EN0102	Bangkok	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

——— END OF REPORT ———

Signatories

Sirluk Burnak	Kanokkorn Anek
Section Head	Assistant General Manager
1-204-c-0013	1-204-e-0004

[illegible]

Analysis Report

TESTING No.0009

Work Order	BK2541561	Date Received	Dec 01, 2025
Client	WHA Utilities and Power Public Company Limited, 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported	Dec 09, 2025
Project	WHA SIL	Report Number	BK2541561-AA
Project Location	SIAM FIBERGLASS COMPANY LIMITED_8_WWT_WHASIL_062_2564		

Sample Number	BK2541561-001
Sampled Date	Dec 01, 2025 09:00 AM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	SIAM FIBERGLASS COMPANY LIMITED
Contract ID	WWT_WHASIL_062_2564
Plot	8
Date of Analysis	Dec 02, 2025
Sampled by	Teerawat Puangsuk (1-204-c-0061)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, some odour, some solids, no turbidity

Analytical Results

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	3.8	≤500	EN0044	Bangkok
COD	mg/L	-	25	37	≤750	EN0046	Bangkok
Formaldehyde	mg/L	0.03	0.1	Not Detected	≤1	EN0010	Bangkok
Oil & Grease	mg/L	-	3	<3	≤10	EN0048	Bangkok
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.0	5.5-9	EN0020	Bangkok
Temperature *	°C	-	-	27.1	≤45	EN0097	Bangkok
Total Suspended Solids	mg/L	-	5	<5	≤200	EN0102	Bangkok

Guideline : Industrial Land on Criteria of wastewater discharging to central wastewater treatment plant

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

Key :
- 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/IEC17025

Signatories

Sirluk Burnak	Kanokkorn Anek
Section Head	Assistant General Manager
1-204-c-0013	1-204-e-0004

[illegible]

Analysis Report

TESTING No.0009

Work Order	BK2541561	Date Received	Dec 01, 2025
Client	WHA Utilities and Power Public Company Limited, 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported	Dec 09, 2025
Project	WHA SIL	Report Number	BK2541561-AA
Project Location	SIAM FIBERGLASS COMPANY LIMITED_8_WWT_WHASIL_062_2564		

Sample Number	BK2541561-001
Sampled Date	Dec 01, 2025 09:00 AM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	SIAM FIBERGLASS COMPANY LIMITED
Contract ID	WWT_WHASIL_062_2564
Plot	8
Date of Analysis	Dec 02, 2025
Sampled by	Teerawat Puangsuk (1-204-c-0061)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, some odour, some solids, no turbidity

Brief Method Summaries

The methods in the analysis report are short format, refer to full test methods in accordance with the ISO/IEC 17025 certificate no. specified in the analysis report.

Method	Testing Lab	Method Descriptions
EN0010	Bangkok	Wastewater analysis manual, Environmental Engineering Association of Thailand, 4th ed., 2004
EN0020	Bangkok	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Bangkok	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Bangkok	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Bangkok	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0097	Bangkok	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 2550 B
EN0102	Bangkok	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

——— END OF REPORT ———

Signatories

Sirluk Burnak	Kanokkorn Anek
Section Head	Assistant General Manager
1-204-c-0013	1-204-e-0004

[illegible]

Analysis Report

TESTING No.0009

Work Order	BK2541562	Date Received	Dec 01, 2025
Client	WHA Utilities and Power Public Company Limited, 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported	Dec 09, 2025
Project	WHA SIL	Report Number	BK2541562-AA
Project Location	Siam Furukawa Co.,Ltd._31_WWT_WHASIL_010_2560		

Sample Number	BK2541562-001
Sampled Date	Dec 01, 2025 09:40 AM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	Siam Furukawa Co.,Ltd.
Contract ID	WWT_WHASIL_010_2560
Plot	31
Date of Analysis	Dec 02, 2025
Sampled by	Nomsawi Komal (1-204-c-0015)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, strong odour, lots of solids, highly turbid

Analytical Results

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	77.2	≤500	EN0044	Bangkok
COD	mg/L	-	25	228	≤750	EN0046	Bangkok
Oil & Grease	mg/L	-	3	8	≤10	EN0048	Bangkok
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.4	5.5-9	EN0020	Bangkok
Temperature *	°C	-	-	26.3	≤45	EN0097	Bangkok
Total Suspended Solids	mg/L	-	5	39	≤200	EN0102	Bangkok

Guideline : Industrial Land on Criteria of wastewater discharging to central wastewater treatment plant

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

Key :
- 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/IEC17025

Signatories

Sirluk Burnak	Kanokkorn Anek
Section Head	Assistant General Manager
1-204-c-0013	1-204-e-0004

[illegible]

Analysis Report

TESTING No.0009

Work Order	BK2541562	Date Received	Dec 01, 2025
Client	WHA Utilities and Power Public Company Limited, 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported	Dec 09, 2025
Project	WHA SIL	Report Number	BK2541562-AA
Project Location	Siam Furukawa Co.,Ltd._31_WWT_WHASIL_010_2560		

Sample Number	BK2541562-001
Sampled Date	Dec 01, 2025 09:40 AM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	Siam Furukawa Co.,Ltd.
Contract ID	WWT_WHASIL_010_2560
Plot	31
Date of Analysis	Dec 02, 2025
Sampled by	Nomsawi Komal (1-204-c-0015)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, strong odour, lots of solids, highly turbid

Brief Method Summaries

The methods in the analysis report are short format, refer to full test methods in accordance with the ISO/IEC 17025 certificate no. specified in the analysis report.

Method	Testing Lab	Method Descriptions
EN0020	Bangkok	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Bangkok	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Bangkok	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Bangkok	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0097	Bangkok	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 2550 B
EN0102	Bangkok	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

——— END OF REPORT ———

Signatories

Sirluk Burnak	Kanokkorn Anek
Section Head	Assistant General Manager
1-204-c-0013	1-204-e-0004

[illegible]

Analysis Report

TESTING No.0009

Work Order	BK2541563	Date Received	Dec 01, 2025
Client	WHA Utilities and Power Public Company Limited, 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported	Dec 09, 2025
Project	WHA SIL	Report Number	BK2541563-AA
Project Location	Siam Furukawa Co.,Ltd._56_WWT_WHASIL_022_2564		

Sample Number	BK2541563-001
Sampled Date	Dec 01, 2025 10:00 AM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	Siam Furukawa Co.,Ltd.
Contract ID	WWT_WHASIL_022_2564
Plot	56
Date of Analysis	Dec 02, 2025
Sampled by	Nomsawi Komal (1-204-c-0015)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, strong odour, lots of solids, highly turbid

Analytical Results

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	89.8	≤500	EN0044	Bangkok
COD	mg/L	-	25	202	≤750	EN0046	Bangkok
Oil & Grease	mg/L	-	3	5	≤10	EN0048	Bangkok
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.8	5.5-9	EN0020	Bangkok
Temperature *	°C	-	-	28.8	≤45	EN0097	Bangkok
Total Suspended Solids	mg/L	-	5	42	≤200	EN0102	Bangkok

Guideline : Industrial Land on Criteria of wastewater discharging to central wastewater treatment plant

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

Key :
- 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/IEC17025

Signatories

Sirluk Burnak	Kanokkorn Anek
Section Head	Assistant General Manager
1-204-c-0013	1-204-e-0004

[illegible]

Analysis Report

TESTING No.0009

Work Order	BK2541563	Date Received	Dec 01, 2025
Client	WHA Utilities and Power Public Company Limited, 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported	Dec 09, 2025
Project	WHA SIL	Report Number	BK2541563-AA
Project Location	Siam Furukawa Co.,Ltd._56_WWT_WHASIL_022_2564		

Sample Number	BK2541563-001
Sampled Date	Dec 01, 2025 10:00 AM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	Siam Furukawa Co.,Ltd.
Contract ID	WWT_WHASIL_022_2564
Plot	56
Date of Analysis	Dec 02, 2025
Sampled by	Nomsawi Komal (1-204-c-0015)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, strong odour, lots of solids, highly turbid

Brief Method Summaries

The methods in the analysis report are short format, refer to full test methods in accordance with the ISO/IEC 17025 certificate no. specified in the analysis report.

Method	Testing Lab	Method Descriptions
EN0020	Bangkok	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Bangkok	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Bangkok	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Bangkok	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0097	Bangkok	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 2550 B
EN0102	Bangkok	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

——— END OF REPORT ———

Signatories

Sirluk Burnak	Kanokkorn Anek
Section Head	Assistant General Manager
1-204-c-0013	1-204-e-0004

[illegible]

Analysis Report

TESTING No.0009

Work Order	BK2541564	Date Received	Dec 09, 2025
Client	WHA Utilities and Power Public Company Limited, 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported	Dec 16, 2025
Project	WHA SIL	Report Number	BK2541564-AA
Project Location	Siam Furukawa Co.,Ltd. (2nd)_69_WWT_WHASIL_060_2564		

Sample Number	BK2541564-001
Sampled Date	Dec 09, 2025 11:20 AM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	Siam Furukawa Co.,Ltd. (2nd)
Contract ID	WWT_WHASIL_060_2564
Plot	69
Date of Analysis	Dec 11, 2025
Sampled by	Panupong Saenrat (1-204-s-0204)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H_2SO_4, 1x Oil & Grease, 1x Logsheet data, 1x Plastic Bottle - Preserved with HNO_3, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, some odour, some solids, no turbidity

Analytical Results

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	<2.0	≤500	EN0044	Bangkok
COD	mg/L	-	25	<25	≤750	EN0046	Bangkok
Oil & Grease	mg/L	-	3	<3	≤10	EN0048	Bangkok
Metals and Major Cations - Total							
Lead	mg/L	0.0003	0.0009	0.0269	≤0.2	ME0002	Bangkok
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	6.8	5.5-9	EN0020	Bangkok
Temperature *	°C	-	-	27.8	≤40	EN0097	Bangkok
Total Dissolved Solids at 180°C	mg/L	-	5	446	≤3000	EN0100	Bangkok
Total Suspended Solids	mg/L	-	5	<5	≤200	EN0102	Bangkok

Guideline : Industrial Land on Criteria of wastewater discharging to central wastewater treatment plant
Comment : Sampling is not included in scope of accreditation ISO/IEC 17025
Key :
- 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

Signatories

Sirilak Bunnak	Kanokkorn Anek
Section Head	Assistant General Manager
1-204-s-0013	1-204-e-0004

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

Analysis Report

TESTING No.0009

Work Order	BK2541564	Date Received	Dec 09, 2025
Client	WHA Utilities and Power Public Company Limited, 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported	Dec 16, 2025
Project	WHA SIL	Report Number	BK2541564-AA
Project Location	Siam Furukawa Co.,Ltd. (2nd)_69_WWT_WHASIL_060_2564		

Sample Number	BK2541564-001
Sampled Date	Dec 09, 2025 11:20 AM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	Siam Furukawa Co.,Ltd. (2nd)
Contract ID	WWT_WHASIL_060_2564
Plot	69
Date of Analysis	Dec 11, 2025
Sampled by	Panupong Saenrat (1-204-s-0204)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H_2SO_4, 1x Oil & Grease, 1x Logsheet data, 1x Plastic Bottle - Preserved with HNO_3, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, some odour, some solids, no turbidity

Brief Method Summaries

The methods in the analysis report are short format, refer to full test methods in accordance with the ISO/IEC 17025 certificate no. specified in the analysis report.

Method	Testing Lab	Method Descriptions
EN0020	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0097	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B
EN0100	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C
EN0102	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D
ME0002	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F

—— END OF REPORT ——

Signatories

Sirilak Bunnak	Kanokkorn Anek
Section Head	Assistant General Manager
1-204-s-0013	1-204-e-0004

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

Analysis Report

TESTING No.0009

Work Order	BK2541565	Date Received	Dec 01, 2025
Client	WHA Utilities and Power Public Company Limited, 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported	Dec 08, 2025
Project	WHA SIL	Report Number	BK2541565-AA
Project Location	Siam Furukawa Co.,Ltd.(1st)_69_WWT_WHASIL_060_2564		

Sample Number	BK2541565-001
Sampled Date	Dec 01, 2025 09:50 AM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	Siam Furukawa Co.,Ltd.(1st)
Contract ID	WWT_WHASIL_060_2564
Plot	69
Date of Analysis	Dec 02, 2025
Sampled by	Namsai Komol (1-204-s-0015)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H_2SO_4, 1x Oil & Grease, 1x Logsheet data, 1x Plastic Bottle - Preserved with HNO_3, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	colourless, some odour, some solids, no turbidity

Analytical Results

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	6.4	≤500	EN0044	Bangkok
COD	mg/L	-	25	39	≤750	EN0046	Bangkok
Oil & Grease	mg/L	-	3	<3	≤10	EN0048	Bangkok
Metals and Major Cations - Total							
Lead	mg/L	0.0003	0.0009	0.0216	≤0.2	ME0002	Bangkok
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.7	5.5-9	EN0020	Bangkok
Temperature *	°C	-	-	27.9	≤40	EN0097	Bangkok
Total Dissolved Solids at 180°C	mg/L	-	5	664	≤3000	EN0100	Bangkok
Total Suspended Solids	mg/L	-	5	<5	≤200	EN0102	Bangkok

Guideline : Industrial Land on Criteria of wastewater discharging to central wastewater treatment plant
Comment : Sampling is not included in scope of accreditation ISO/IEC 17025
Key :
- 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

Signatories

Sawitree Noisangiam	Kanokkorn Anek
Manager	Assistant General Manager
1-204-s-0007	1-204-e-0004

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

Analysis Report

TESTING No.0009

Work Order	BK2541565	Date Received	Dec 01, 2025
Client	WHA Utilities and Power Public Company Limited, 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported	Dec 08, 2025
Project	WHA SIL	Report Number	BK2541565-AA
Project Location	Siam Furukawa Co.,Ltd.(1st)_69_WWT_WHASIL_060_2564		

Sample Number	BK2541565-001
Sampled Date	Dec 01, 2025 09:50 AM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	Siam Furukawa Co.,Ltd.(1st)
Contract ID	WWT_WHASIL_060_2564
Plot	69
Date of Analysis	Dec 02, 2025
Sampled by	Namsai Komol (1-204-s-0015)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H_2SO_4, 1x Oil & Grease, 1x Logsheet data, 1x Plastic Bottle - Preserved with HNO_3, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	colourless, some odour, some solids, no turbidity

Brief Method Summaries

The methods in the analysis report are short format, refer to full test methods in accordance with the ISO/IEC 17025 certificate no. specified in the analysis report.

Method	Testing Lab	Method Descriptions
EN0020	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0097	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B
EN0100	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C
EN0102	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D
ME0002	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F

—— END OF REPORT ——

Signatories

Sawitree Noisangiam	Kanokkorn Anek
Manager	Assistant General Manager
1-204-s-0007	1-204-e-0004

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

Analysis Report

TESTING No.0009

Work Order	BK2541566	Date Received	Dec 01, 2025
Client	WHA Utilities and Power Public Company Limited, 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported	Dec 08, 2025
Project	WHA SIL	Report Number	BK2541566-AA
Project Location	Siam Gypsum Industry (Saraburi) Co.,Ltd._9,15_WWT_WHASIL_018_2564		

Sample Number	BK2541566-001
Sampled Date	Dec 01, 2025 09:20 AM
Sample Name	Group 2 Wastewater WW-CT : Factory 1
Sampling Site	Siam Gypsum Industry (Saraburi) Co.,Ltd.
Contract ID	WWT_WHASIL_018_2564
Plot	9,15
Date of Analysis	Dec 02, 2025
Sampled by	Teerawat Puangsuk (1-204-s-0061)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H_2SO_4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	colourless, odourless, no solids, no turbidity

Analytical Results

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	<2.0	≤500	EN0044	Bangkok
COD	mg/L	-	25	28	≤750	EN0046	Bangkok
Oil & Grease	mg/L	-	3	<3	≤10	EN0048	Bangkok
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	8.8	5.5-9	EN0020	Bangkok
Temperature *	°C	-	-	26.4	≤40	EN0097	Bangkok
Total Suspended Solids	mg/L	-	5	<5	≤200	EN0102	Bangkok

Guideline : Industrial Land on Criteria of wastewater discharging to central wastewater treatment plant
Comment : Sampling is not included in scope of accreditation ISO/IEC 17025
Key :
- 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

Signatories

Sirilak Bunnak	Kanokkorn Anek
Section Head	Assistant General Manager
1-204-s-0013	1-204-e-0004

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

Analysis Report

TESTING No.0009

Work Order	BK2541566	Date Received	Dec 01, 2025
Client	WHA Utilities and Power Public Company Limited, 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported	Dec 08, 2025
Project	WHA SIL	Report Number	BK2541566-AA
Project Location	Siam Gypsum Industry (Saraburi) Co.,Ltd._9,15_WWT_WHASIL_018_2564		

Sample Number	BK2541566-001
Sampled Date	Dec 01, 2025 09:20 AM
Sample Name	Group 2 Wastewater WW-CT : Factory 1
Sampling Site	Siam Gypsum Industry (Saraburi) Co.,Ltd.
Contract ID	WWT_WHASIL_018_2564
Plot	9,15
Date of Analysis	Dec 02, 2025
Sampled by	Teerawat Puangsuk (1-204-s-0061)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H_2SO_4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	colourless, odourless, no solids, no turbidity

Brief Method Summaries

The methods in the analysis report are short format, refer to full test methods in accordance with the ISO/IEC 17025 certificate no. specified in the analysis report.

Method	Testing Lab	Method Descriptions
EN0020	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0097	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B
EN0102	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

—— END OF REPORT ——

Signatories

Sirilak Bunnak	Kanokkorn Anek
Section Head	Assistant General Manager
1-204-s-0013	1-204-e-0004

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

Analysis Report

TESTING No.0009

Work Order	BK2541567	Date Received	Dec 01, 2025
Client	WHA Utilities and Power Public Company Limited, 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported	Dec 08, 2025
Project	WHA SIL	Report Number	BK2541567-AA
Project Location	Siam Gypsum Industry (Saraburi) Co.,Ltd._42,79,98_WWT_WHASIL_017_2564		

Sample Number	BK2541567-001
Sampled Date	Dec 01, 2025 10:20 AM
Sample Name	Group 2 Wastewater WW-CT : Factory 2
Sampling Site	Siam Gypsum Industry (Saraburi) Co.,Ltd.
Contract ID	WWT_WHASIL_017_2564
Plot	42,79,98
Date of Analysis	Dec 02, 2025
Sampled by	Teerawat Puangsuk (1-204-s-0061)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H_2SO_4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, strong odour, lots of solids, highly turbid

Analytical Results

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	72.5	≤500	EN0044	Bangkok
COD	mg/L	-	25	106	≤750	EN0046	Bangkok
Oil & Grease	mg/L	-	3	<3	≤10	EN0048	Bangkok
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.5	5.5-9	EN0020	Bangkok
Temperature *	°C	-	-	27.8	≤40	EN0097	Bangkok
Total Suspended Solids	mg/L	-	5	141	≤200	EN0102	Bangkok

Guideline : Industrial Land on Criteria of wastewater discharging to central wastewater treatment plant
Comment : Sampling is not included in scope of accreditation ISO/IEC 17025
Key :
- 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

Signatories

Sirilak Bunnak	Kanokkorn Anek
Section Head	Assistant General Manager
1-204-s-0013	1-204-e-0004

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Analysis Report

TESTING No.0009

Work Order	BK2541567	Date Received	Dec 01, 2025
Client	WHA Utilities and Power Public Company Limited, 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported	Dec 08, 2025
Project	WHA SIL	Report Number	BK2541567-AA
Project Location	Siam Gypsum Industry (Saraburi) Co.,Ltd._42,79,98_WWT_WHASIL_017_2564		

Sample Number	BK2541567-001
Sampled Date	Dec 01, 2025 10:20 AM
Sample Name	Group 2 Wastewater WW-CT : Factory 2
Sampling Site	Siam Gypsum Industry (Saraburi) Co.,Ltd.
Contract ID	WWT_WHASIL_017_2564
Plot	42,79,98
Date of Analysis	Dec 02, 2025
Sampled by	Teerawat Puangsuk (1-204-s-0061)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H_2SO_4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, strong odour, lots of solids, highly turbid

Brief Method Summaries

The methods in the analysis report are short format, refer to full test methods in accordance with the ISO/IEC 17025 certificate no. specified in the analysis report.

Method	Testing Lab	Method Descriptions
EN0020	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0097	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B
EN0102	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

—— END OF REPORT ——

Signatories

Sirilak Bunnak	Kanokkorn Anek
Section Head	Assistant General Manager
1-204-s-0013	1-204-e-0004

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

Analysis Report

TESTING No.0009

Work Order	BK2541568	Date Received	Dec 01, 2025
Client	WHA Utilities and Power Public Company Limited, 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported	Dec 09, 2025
Project	WHA SIL	Report Number	BK2541568-AA
Project Location	Siam Hanamaruki Co.,Ltd._83_WWT_WHASIL_006_2562		

Sample Number	BK2541568-001
Sampled Date	Dec 01, 2025 01:40 PM
Sample Name	Group 2 Wastewater WW-CT : ([illegible])
Sampling Site	Siam Hanamaruki Co.,Ltd.
Contract ID	WWT_WHASIL_006_2562
Plot	83
Date of Analysis	Dec 02, 2025
Sampled by	Namsai Komol (1-204-s-0015)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H_2SO_4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, strong odour, lots of solids, highly turbid

Analytical Results

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	190	≤500	EN0044	Bangkok
COD	mg/L	-	25	336	≤750	EN0046	Bangkok
Oil & Grease	mg/L	-	3	4	≤10	EN0048	Bangkok
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.0	5.5-9	EN0020	Bangkok
Temperature *	°C	-	-	28.0	≤40	EN0097	Bangkok
Total Suspended Solids	mg/L	-	5	66	≤200	EN0102	Bangkok

Guideline : Industrial Land on Criteria of wastewater discharging to central wastewater treatment plant
Comment : Sampling is not included in scope of accreditation ISO/IEC 17025
Key :
- 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

Signatories

Sirilak Bunnak	Kanokkorn Anek
Section Head	Assistant General Manager
1-204-s-0013	1-204-e-0004

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

Analysis Report

TESTING No.0009

Work Order	BK2541558	Date Received	Dec 01, 2025
Client	WHA Utilities and Power Public Company Limited 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported	Dec 09, 2025
Project	WHA SIL	Report Number	BK2541558-AA
Project Location	Siam Hanamaruki Co.,Ltd._83_WWT_WHASIL_006_2562		

Sample Number	BK2541558-001
Sampled Date	Dec 01, 2025 01:40 PM
Sample Name	Group 2 Wastewater WW-CT_(ncio 59)
Sampling Site	Siam Hanamaruki Co.,Ltd.
Contract ID	WWT_WHASIL_006_2562
Plot	83
Date of Analysis	Dec 02, 2025
Sampled by	Nomsawi Komal (1-204-c-0015)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, strong odour, lots of solids, highly turbid

Brief Method Summaries

The methods in the analysis report are short format, refer to full test methods in accordance with the ISO/IEC 17025 certificate no. specified in the analysis report.

Method	Testing Lab	Method Descriptions
EN0020	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0097	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B
EN0102	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

—— END OF REPORT ——

Signatories

Siriluk Bunnak	Kanokkorn Anek
Section Head	Assistant General Manager
1-204-c-0013	1-204-e-0004

Analysis Report

TESTING No.0009

Work Order	BK2541559	Date Received	Dec 01, 2025
Client	WHA Utilities and Power Public Company Limited 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported	Dec 09, 2025
Project	WHA SIL	Report Number	BK2541559-AA
Project Location	Siam NGK Technocera Co.,Ltd._74_WWT_WHASIL_020_2564		

Sample Number	BK2541559-001
Sampled Date	Dec 01, 2025 10:06 AM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	Siam NGK Technocera Co.,Ltd.
Contract ID	WWT_WHASIL_020_2564
Plot	74
Date of Analysis	Dec 02, 2025
Sampled by	Teerawat Puangsuk (1-204-c-0061)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, some odour, some solids, turbid

Analytical Results

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	20.5	≤500	EN0044	Bangkok
COD	mg/L	-	25	101	≤750	EN0046	Bangkok
Oil & Grease	mg/L	-	3	<3	≤10	EN0048	Bangkok
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	6.6	5.5-9	EN0020	Bangkok
Temperature *	°C	-	-	24.2	≤40	EN0097	Bangkok
Total Suspended Solids	mg/L	-	5	60	≤200	EN0102	Bangkok

Guideline : Industrial Land on Criteria of wastewater discharging to central wastewater treatment plant

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

Key :
- 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

Signatories

Siriluk Bunnak	Kanokkorn Anek
Section Head	Assistant General Manager
1-204-c-0013	1-204-e-0004

Analysis Report

TESTING No.0009

Work Order	BK2541559	Date Received	Dec 01, 2025
Client	WHA Utilities and Power Public Company Limited 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported	Dec 09, 2025
Project	WHA SIL	Report Number	BK2541559-AA
Project Location	Siam NGK Technocera Co.,Ltd._74_WWT_WHASIL_020_2564		

Sample Number	BK2541559-001
Sampled Date	Dec 01, 2025 10:06 AM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	Siam NGK Technocera Co.,Ltd.
Contract ID	WWT_WHASIL_020_2564
Plot	74
Date of Analysis	Dec 02, 2025
Sampled by	Teerawat Puangsuk (1-204-c-0061)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, some odour, some solids, turbid

Brief Method Summaries

The methods in the analysis report are short format, refer to full test methods in accordance with the ISO/IEC 17025 certificate no. specified in the analysis report.

Method	Testing Lab	Method Descriptions
EN0020	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0097	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B
EN0102	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

—— END OF REPORT ——

Signatories

Siriluk Bunnak	Kanokkorn Anek
Section Head	Assistant General Manager
1-204-c-0013	1-204-e-0004

Analysis Report

TESTING No.0009

Work Order	BK2541560	Date Received	Dec 01, 2025
Client	WHA Utilities and Power Public Company Limited 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported	Dec 09, 2025
Project	WHA SIL	Report Number	BK2541560-AA
Project Location	Siam Toto Ceramics Co.,Ltd._56_WWT_WHASIL_021_2564		

Sample Number	BK2541560-001
Sampled Date	Dec 01, 2025 10:15 AM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	Siam Toto Ceramics Co.,Ltd.
Contract ID	WWT_WHASIL_021_2564
Plot	56
Date of Analysis	Dec 02, 2025
Sampled by	Nomsawi Komal (1-204-c-0015)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, strong odour, lots of solids, highly turbid

Analytical Results

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	100	≤500	EN0044	Bangkok
COD	mg/L	-	25	102	≤750	EN0046	Bangkok
Oil & Grease	mg/L	-	3	8	≤10	EN0048	Bangkok
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.5	5.5-9	EN0020	Bangkok
Temperature *	°C	-	-	28.5	≤40	EN0097	Bangkok
Total Suspended Solids	mg/L	-	5	40	≤200	EN0102	Bangkok

Guideline : Industrial Land on Criteria of wastewater discharging to central wastewater treatment plant

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

Key :
- 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

Signatories

Siriluk Bunnak	Kanokkorn Anek
Section Head	Assistant General Manager
1-204-c-0013	1-204-e-0004

Analysis Report

TESTING No.0009

Work Order	BK2541560	Date Received	Dec 01, 2025
Client	WHA Utilities and Power Public Company Limited 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported	Dec 09, 2025
Project	WHA SIL	Report Number	BK2541560-AA
Project Location	Siam Toto Ceramics Co.,Ltd._56_WWT_WHASIL_021_2564		

Sample Number	BK2541560-001
Sampled Date	Dec 01, 2025 10:15 AM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	Siam Toto Ceramics Co.,Ltd.
Contract ID	WWT_WHASIL_021_2564
Plot	56
Date of Analysis	Dec 02, 2025
Sampled by	Nomsawi Komal (1-204-c-0015)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, strong odour, lots of solids, highly turbid

Brief Method Summaries

The methods in the analysis report are short format, refer to full test methods in accordance with the ISO/IEC 17025 certificate no. specified in the analysis report.

Method	Testing Lab	Method Descriptions
EN0020	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0097	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B
EN0102	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

—— END OF REPORT ——

Signatories

Siriluk Bunnak	Kanokkorn Anek
Section Head	Assistant General Manager
1-204-c-0013	1-204-e-0004

Analysis Report

TESTING No.0009

Work Order	BK2541561	Date Received	Dec 01, 2025
Client	WHA Utilities and Power Public Company Limited 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported	Dec 09, 2025
Project	WHA SIL	Report Number	BK2541561-AA
Project Location	SLIK (Thailand) Co.,Ltd._132_WWT_WHASIL_046_2566		

Sample Number	BK2541561-001
Sampled Date	Dec 01, 2025 09:15 AM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	SLIK (Thailand) Co.,Ltd.
Contract ID	WWT_WHASIL_046_2566
Plot	132
Date of Analysis	Dec 02, 2025
Sampled by	Panupong Saensri (1-204-c-0204)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, strong odour, some solids, turbid

Analytical Results

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	60.7	≤500	EN0044	Bangkok
COD	mg/L	-	25	209	≤750	EN0046	Bangkok
Oil & Grease	mg/L	-	3	7	≤10	EN0048	Bangkok
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.5	5.5-9	EN0020	Bangkok
Temperature *	°C	-	-	27.8	≤40	EN0097	Bangkok
Total Suspended Solids	mg/L	-	5	72	≤200	EN0102	Bangkok

Guideline : Industrial Land on Criteria of wastewater discharging to central wastewater treatment plant

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

Key :
- 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

Signatories

Siriluk Bunnak	Kanokkorn Anek
Section Head	Assistant General Manager
1-204-c-0013	1-204-e-0004

Analysis Report

TESTING No.0009

Work Order	BK2541561	Date Received	Dec 01, 2025
Client	WHA Utilities and Power Public Company Limited 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported	Dec 09, 2025
Project	WHA SIL	Report Number	BK2541561-AA
Project Location	SLIK (Thailand) Co.,Ltd._132_WWT_WHASIL_046_2566		

Sample Number	BK2541561-001
Sampled Date	Dec 01, 2025 09:15 AM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	SLIK (Thailand) Co.,Ltd.
Contract ID	WWT_WHASIL_046_2566
Plot	132
Date of Analysis	Dec 02, 2025
Sampled by	Panupong Saensri (1-204-c-0204)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, strong odour, some solids, turbid

Brief Method Summaries

The methods in the analysis report are short format, refer to full test methods in accordance with the ISO/IEC 17025 certificate no. specified in the analysis report.

Method	Testing Lab	Method Descriptions
EN0020	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0097	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B
EN0102	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

—— END OF REPORT ——

Signatories

Siriluk Bunnak	Kanokkorn Anek
Section Head	Assistant General Manager
1-204-c-0013	1-204-e-0004

Analysis Report

TESTING No.0009

Work Order	BK2541563	Date Received	Dec 01, 2025
Client	WHA Utilities and Power Public Company Limited 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported	Dec 09, 2025
Project	WHA SIL	Report Number	BK2541563-AA
Project Location	TERAHOP (THAILAND) CO., LTD._139-140_WWT_WHASIL_003_2565		

Sample Number	BK2541563-001
Sampled Date	Dec 01, 2025 02:00 PM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	TERAHOP (THAILAND) CO., LTD.
Contract ID	WWT_WHASIL_003_2565
Plot	139-140
Date of Analysis	Dec 02, 2025
Sampled by	Panupong Saensri (1-204-c-0204)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, strong odour, lots of solids, highly turbid

Analytical Results

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	159	≤500	EN0044	Bangkok
COD	mg/L	-	25	374	≤750	EN0046	Bangkok
Oil & Grease	mg/L	-	3	8	≤10	EN0048	Bangkok
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.2	5.5-9	EN0020	Bangkok
Temperature *	°C	-	-	29.1	≤40	EN0097	Bangkok
Total Suspended Solids	mg/L	-	5	132	≤200	EN0102	Bangkok

Guideline : Industrial Land on Criteria of wastewater discharging to central wastewater treatment plant

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

Key :
- 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

Signatories

Siriluk Bunnak	Kanokkorn Anek
Section Head	Assistant General Manager
1-204-c-0013	1-204-e-0004

Analysis Report

TESTING No.0009

Work Order	BK2541563	Date Received	Dec 01, 2025
Client	WHA Utilities and Power Public Company Limited 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported	Dec 09, 2025
Project	WHA SIL	Report Number	BK2541563-AA
Project Location	TERAHOP (THAILAND) CO., LTD._139-140_WWT_WHASIL_003_2565		

Sample Number	BK2541563-001
Sampled Date	Dec 01, 2025 02:00 PM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	TERAHOP (THAILAND) CO., LTD.
Contract ID	WWT_WHASIL_003_2565
Plot	139-140
Date of Analysis	Dec 02, 2025
Sampled by	Panupong Saensri (1-204-c-0204)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, strong odour, lots of solids, highly turbid

Brief Method Summaries

The methods in the analysis report are short format, refer to full test methods in accordance with the ISO/IEC 17025 certificate no. specified in the analysis report.

Method	Testing Lab	Method Descriptions
EN0020	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0097	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B
EN0102	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

—— END OF REPORT ——

Signatories

Siriluk Bunnak	Kanokkorn Anek
Section Head	Assistant General Manager
1-204-c-0013	1-204-e-0004

ALS

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Analysis Report

Work Order : BK2541568
Client : WHA Utilities and Power Public Company Limited, 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140
Project : WHA SIL
Project Location : Thai Beverage Can Co.,Ltd._23_WWT_WHASIL_024_2564
Date Received : Dec 01, 2025
Date Reported : Dec 08, 2025
Report Number : BK2541568-AA

Sample Number : BK2541568-001
Sampled Date : Dec 01, 2025 11:40 AM
Sample Name : Group 2 Wastewater WW-CT : Point 2
Sampling Site : Thai Beverage Can Co.,Ltd.
Contract ID : WWT_WHASIL_024_2564
Plot : 23
Date of Analysis : Dec 02, 2025
Sampled by : Parupong Saensri (1-204-s-0204)
Condition of Sample : 1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties : colourless, some odour, some solids, no turbidity

Analytical Results

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	<2.0	≤500	EN0044	Bangkok
COD	mg/L	-	25	<25	≤750	EN0046	Bangkok
Oil & Grease	mg/L	-	3	<3	≤10	EN0048	Bangkok
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	8.2	5.5-9	EN0020	Bangkok
Temperature *	°C	-	-	29.4	≤45	EN0097	Bangkok
Total Suspended Solids	mg/L	-	5	<5	≤200	EN0102	Bangkok

Guideline : Industrial Land on Criteria of wastewater discharging to central wastewater treatment plant
Comment : Sampling is not included in scope of accreditation ISO/IEC 17025
Key :
- 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/IEC17025

Signatories

Sittiuk Bunnak, Section Head, 1-204-s-0013 — Kanokkorn Anek, Assistant General Manager, 1-204-e-0004

ALS Laboratory Group (Thailand) Co.,Ltd. Bangkok Life Sciences

ALS

ilac-MRA · TESTING No.0009

Analysis Report

Work Order : BK2541568
Client : WHA Utilities and Power Public Company Limited, 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140
Project : WHA SIL
Project Location : Thai Beverage Can Co.,Ltd._23_WWT_WHASIL_024_2564
Date Received : Dec 01, 2025
Date Reported : Dec 08, 2025
Report Number : BK2541568-AA

Sample Number : BK2541568-001
Sampled Date : Dec 01, 2025 11:40 AM
Sample Name : Group 2 Wastewater WW-CT : Point 2
Sampling Site : Thai Beverage Can Co.,Ltd.
Contract ID : WWT_WHASIL_024_2564
Plot : 23
Date of Analysis : Dec 02, 2025
Sampled by : Parupong Saensri (1-204-s-0204)
Condition of Sample : 1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties : colourless, some odour, some solids, no turbidity

Brief Method Summaries

The methods in the analysis report are short format, refer to full test methods in accordance with the ISO/IEC 17025 certificate no. specified in the analysis report.

Method	Testing Lab	Method Descriptions
EN0020	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0097	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B
EN0102	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

——— END OF REPORT ———

Signatories

Sittiuk Bunnak, Section Head, 1-204-s-0013 — Kanokkorn Anek, Assistant General Manager, 1-204-e-0004

ALS Laboratory Group (Thailand) Co.,Ltd. Bangkok Life Sciences

ALS

ilac-MRA · TESTING No.0009

Analysis Report

Work Order : BK2541569
Client : WHA Utilities and Power Public Company Limited, 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140
Project : WHA SIL
Project Location : Thai Beverage Can Co.,Ltd._25_WWT_WHASIL_013_2566
Date Received : Dec 01, 2025
Date Reported : Dec 09, 2025
Report Number : BK2541569-AA

Sample Number : BK2541569-001
Sampled Date : Dec 01, 2025 11:50 AM
Sample Name : Group 2 Wastewater WW-CT
Sampling Site : Thai Beverage Can Co.,Ltd.
Contract ID : WWT_WHASIL_013_2566
Plot : 25
Date of Analysis : Dec 02, 2025
Sampled by : Parupong Saensri (1-204-s-0204)
Condition of Sample : 1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties : colourless, some odour, some solids, no turbidity

Analytical Results

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	<2.0	≤500	EN0044	Bangkok
COD	mg/L	-	25	<25	≤750	EN0046	Bangkok
Oil & Grease	mg/L	-	3	<3	≤10	EN0048	Bangkok
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	8.0	5.5-9	EN0020	Bangkok
Temperature *	°C	-	-	27.4	≤45	EN0097	Bangkok
Total Suspended Solids	mg/L	-	5	<5	≤200	EN0102	Bangkok

Guideline : Industrial Land on Criteria of wastewater discharging to central wastewater treatment plant
Comment : Sampling is not included in scope of accreditation ISO/IEC 17025
Key :
- 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/IEC17025

Signatories

Sittiuk Bunnak, Section Head, 1-204-s-0013 — Kanokkorn Anek, Assistant General Manager, 1-204-e-0004

ALS Laboratory Group (Thailand) Co.,Ltd. Bangkok Life Sciences

ALS

ilac-MRA · TESTING No.0009

Analysis Report

Work Order : BK2541569
Client : WHA Utilities and Power Public Company Limited, 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140
Project : WHA SIL
Project Location : Thai Beverage Can Co.,Ltd._25_WWT_WHASIL_013_2566
Date Received : Dec 01, 2025
Date Reported : Dec 09, 2025
Report Number : BK2541569-AA

Sample Number : BK2541569-001
Sampled Date : Dec 01, 2025 11:50 AM
Sample Name : Group 2 Wastewater WW-CT
Sampling Site : Thai Beverage Can Co.,Ltd.
Contract ID : WWT_WHASIL_013_2566
Plot : 25
Date of Analysis : Dec 02, 2025
Sampled by : Parupong Saensri (1-204-s-0204)
Condition of Sample : 1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties : colourless, some odour, some solids, no turbidity

Brief Method Summaries

The methods in the analysis report are short format, refer to full test methods in accordance with the ISO/IEC 17025 certificate no. specified in the analysis report.

Method	Testing Lab	Method Descriptions
EN0020	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0097	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B
EN0102	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

——— END OF REPORT ———

Signatories

Sittiuk Bunnak, Section Head, 1-204-s-0013 — Kanokkorn Anek, Assistant General Manager, 1-204-e-0004

ALS Laboratory Group (Thailand) Co.,Ltd. Bangkok Life Sciences

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ilac-MRA · TESTING No.0009

Analysis Report

Work Order : BK2541570
Client : WHA Utilities and Power Public Company Limited, 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140
Project : WHA SIL
Project Location : Thai Inaba Foods (Thailand) Co., Ltd._136/1_WWT_WHASIL_001_2567
Date Received : Dec 01, 2025
Date Reported : Dec 08, 2025
Report Number : BK2541570-AA

Sample Number : BK2541570-001
Sampled Date : Dec 01, 2025 01:40 PM
Sample Name : Group 2 Wastewater WW-CT
Sampling Site : Thai Inaba Foods (Thailand) Co., Ltd.
Contract ID : WWT_WHASIL_001_2567
Plot : 136/1
Date of Analysis : Dec 02, 2025
Sampled by : Parupong Saensri (1-204-s-0204)
Condition of Sample : 1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties : colourless, strong odour, lots of solids, highly turbid

Analytical Results

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	175	≤500	EN0044	Bangkok
COD	mg/L	-	25	308	≤750	EN0046	Bangkok
Oil & Grease	mg/L	-	3	8	≤10	EN0048	Bangkok
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	8.2	5.5-9	EN0020	Bangkok
Temperature *	°C	-	-	27.8	≤45	EN0097	Bangkok
Total Suspended Solids	mg/L	-	5	40	≤200	EN0102	Bangkok

Guideline : Industrial Land on Criteria of wastewater discharging to central wastewater treatment plant
Comment : Sampling is not included in scope of accreditation ISO/IEC 17025
Key :
- 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/IEC17025

Signatories

Sittiuk Bunnak, Section Head, 1-204-s-0013 — Kanokkorn Anek, Assistant General Manager, 1-204-e-0004

ALS Laboratory Group (Thailand) Co.,Ltd. Bangkok Life Sciences

ALS

ilac-MRA · TESTING No.0009

Analysis Report

Work Order : BK2541570
Client : WHA Utilities and Power Public Company Limited, 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140
Project : WHA SIL
Project Location : Thai Inaba Foods (Thailand) Co., Ltd._136/1_WWT_WHASIL_001_2567
Date Received : Dec 01, 2025
Date Reported : Dec 09, 2025
Report Number : BK2541570-AA

Sample Number : BK2541570-001
Sampled Date : Dec 01, 2025 01:40 PM
Sample Name : Group 2 Wastewater WW-CT
Sampling Site : Thai Inaba Foods (Thailand) Co., Ltd.
Contract ID : WWT_WHASIL_001_2567
Plot : 136/1
Date of Analysis : Dec 02, 2025
Sampled by : Parupong Saensri (1-204-s-0204)
Condition of Sample : 1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties : colourless, strong odour, lots of solids, highly turbid

Brief Method Summaries

The methods in the analysis report are short format, refer to full test methods in accordance with the ISO/IEC 17025 certificate no. specified in the analysis report.

Method	Testing Lab	Method Descriptions
EN0020	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0097	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B
EN0102	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

——— END OF REPORT ———

Signatories

Sittiuk Bunnak, Section Head, 1-204-s-0013 — Kanokkorn Anek, Assistant General Manager, 1-204-e-0004

ALS Laboratory Group (Thailand) Co.,Ltd. Bangkok Life Sciences

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ilac-MRA · TESTING No.0009

Analysis Report

Work Order : BK2541571
Client : WHA Utilities and Power Public Company Limited, 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140
Project : WHA SIL
Project Location : Thai Inaba Foods (Thailand) Co.,Ltd. (1st)_133_WWT_WHASIL_066_2566
Date Received : Dec 01, 2025
Date Reported : Dec 08, 2025
Report Number : BK2541571-AA

Sample Number : BK2541571-001
Sampled Date : Dec 01, 2025 01:20 PM
Sample Name : Group 2 Wastewater WW-CT
Sampling Site : Thai Inaba Foods (Thailand) Co.,Ltd. (1st)
Contract ID : WWT_WHASIL_066_2566
Plot : 133
Date of Analysis : Dec 02, 2025
Sampled by : Parupong Saensri (1-204-s-0204)
Condition of Sample : 1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties : yellow, strong odour, some solids, turbid

Analytical Results

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	80.2	≤500	EN0044	Bangkok
COD	mg/L	-	25	149	≤750	EN0046	Bangkok
Oil & Grease	mg/L	-	3	<3	≤10	EN0048	Bangkok
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	8.4	5.5-9	EN0020	Bangkok
Temperature *	°C	-	-	33.0	≤45	EN0097	Bangkok
Total Suspended Solids	mg/L	-	5	26	≤200	EN0102	Bangkok

Guideline : Industrial Land on Criteria of wastewater discharging to central wastewater treatment plant
Comment : Sampling is not included in scope of accreditation ISO/IEC 17025
Key :
- 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/IEC17025

Signatories

Sittiuk Bunnak, Section Head, 1-204-s-0013 — Kanokkorn Anek, Assistant General Manager, 1-204-e-0004

ALS Laboratory Group (Thailand) Co.,Ltd. Bangkok Life Sciences

ALS

ilac-MRA · TESTING No.0009

Analysis Report

Work Order : BK2541571
Client : WHA Utilities and Power Public Company Limited, 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140
Project : WHA SIL
Project Location : Thai Inaba Foods (Thailand) Co.,Ltd. (1st)_133_WWT_WHASIL_066_2566
Date Received : Dec 01, 2025
Date Reported : Dec 08, 2025
Report Number : BK2541571-AA

Sample Number : BK2541571-001
Sampled Date : Dec 01, 2025 01:20 PM
Sample Name : Group 2 Wastewater WW-CT
Sampling Site : Thai Inaba Foods (Thailand) Co.,Ltd. (1st)
Contract ID : WWT_WHASIL_066_2566
Plot : 133
Date of Analysis : Dec 02, 2025
Sampled by : Parupong Saensri (1-204-s-0204)
Condition of Sample : 1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties : yellow, strong odour, some solids, turbid

Brief Method Summaries

The methods in the analysis report are short format, refer to full test methods in accordance with the ISO/IEC 17025 certificate no. specified in the analysis report.

Method	Testing Lab	Method Descriptions
EN0020	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0097	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B
EN0102	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

——— END OF REPORT ———

Signatories

Sittiuk Bunnak, Section Head, 1-204-s-0013 — Kanokkorn Anek, Assistant General Manager, 1-204-e-0004

ALS Laboratory Group (Thailand) Co.,Ltd. Bangkok Life Sciences

ALS

ilac-MRA · TESTING No.0009

Analysis Report

Work Order : BK2541572
Client : WHA Utilities and Power Public Company Limited, 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140
Project : WHA SIL
Project Location : Thai Inaba Foods Co., Ltd._134_WWT_WHASIL_007_2566
Date Received : Dec 01, 2025
Date Reported : Dec 09, 2025
Report Number : BK2541572-AA

Sample Number : BK2541572-001
Sampled Date : Dec 01, 2025 01:30 PM
Sample Name : Group 2 Wastewater WW-CT
Sampling Site : Thai Inaba Foods Co., Ltd.
Contract ID : WWT_WHASIL_007_2566
Plot : 134
Date of Analysis : Dec 02, 2025
Sampled by : Parupong Saensri (1-204-s-0204)
Condition of Sample : 1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties : colourless, odourless, no solids, no turbidity

Analytical Results

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	6.6	≤500	EN0044	Bangkok
COD	mg/L	-	25	49	≤750	EN0046	Bangkok
Oil & Grease	mg/L	-	3	<3	≤10	EN0048	Bangkok
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	8.4	5.5-9	EN0020	Bangkok
Temperature *	°C	-	-	33.5	≤45	EN0097	Bangkok
Total Suspended Solids	mg/L	-	5	7	≤200	EN0102	Bangkok

Guideline : Industrial Land on Criteria of wastewater discharging to central wastewater treatment plant
Comment : Sampling is not included in scope of accreditation ISO/IEC 17025
Key :
- 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/IEC17025

Signatories

Sittiuk Bunnak, Section Head, 1-204-s-0013 — Kanokkorn Anek, Assistant General Manager, 1-204-e-0004

ALS Laboratory Group (Thailand) Co.,Ltd. Bangkok Life Sciences

Analysis Report

Work Order: BK2541572 | Date Received: Dec 01, 2025 | Date Reported: Dec 09, 2025 | Report Number: BK2541572-AA

Brief Method Summaries

The methods in the analysis report are short format, refer to full test methods in accordance with the ISO/IEC 17025 certificate no. specified in the analysis report.

Method	Testing Lab	Method Descriptions
EN0020	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0097	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B
EN0102	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

—— END OF REPORT ——

Signatories

Sirilak Bunnak, Section Head, 1-204-s-0013

Kanokkorn Anek, Assistant General Manager, 1-204-e-0004

Analysis Report

Work Order: BK2541573
Client: WHA Utilities and Power Public Company Limited, 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140
Project: WHA SIL
Project Location: Thai Malaya Glass (Thailand) Co.,Ltd._37,38_WWT_WHASIL_026_2564
Date Received: Dec 01, 2025 | Date Reported: Dec 09, 2025 | Report Number: BK2541573-AA

Sample Number: BK2541573-001
Sampled Date: Dec 01, 2025 10:06 AM
Sample Name: Group 2 Wastewater WW-CT
Sampling Site: Thai Malaya Glass (Thailand) Co.,Ltd.
Contract ID: WWT_WHASIL_026_2564
Plot: 37,38
Date of Analysis: Dec 02, 2025
Sampled by: Anuwat Phuluan (1-204-s-0148)
Condition of Sample: 1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties: yellow, strong odour, some solids, turbid

Analytical Results

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	19.5	≤500	EN0044	Bangkok
COD	mg/L	-	25	66	≤750	EN0046	Bangkok
Oil & Grease	mg/L	-	3	<3	≤10	EN0048	Bangkok
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.4	5.5-9	EN0020	Bangkok
Temperature *	°C	-	-	28.6	≤40	EN0097	Bangkok
Total Suspended Solids	mg/L	-	5	16	≤200	EN0102	Bangkok

Guideline: Industrial Land on Criteria of wastewater discharging to central wastewater treatment plant
Comment: Sampling is not included in scope of accreditation ISO/IEC 17025
Key:
- 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

Signatories

Sirilak Bunnak, Section Head, 1-204-s-0013

Kanokkorn Anek, Assistant General Manager, 1-204-e-0004

Analysis Report

Work Order: BK2541573 | Date Received: Dec 01, 2025 | Date Reported: Dec 09, 2025 | Report Number: BK2541573-AA

Brief Method Summaries

The methods in the analysis report are short format, refer to full test methods in accordance with the ISO/IEC 17025 certificate no. specified in the analysis report.

Method	Testing Lab	Method Descriptions
EN0020	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0097	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B
EN0102	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

—— END OF REPORT ——

Signatories

Sirilak Bunnak, Section Head, 1-204-s-0013

Kanokkorn Anek, Assistant General Manager, 1-204-e-0004

Analysis Report

Work Order: BK2541574
Client: WHA Utilities and Power Public Company Limited, 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140
Project: WHA SIL
Project Location: Thai Malaya Glass (Thailand) Co.,Ltd._45,46,143_WWT_WHASIL_001_2568
Date Received: Dec 01, 2025 | Date Reported: Dec 09, 2025 | Report Number: BK2541574-AA

Sample Number: BK2541574-001
Sampled Date: Dec 01, 2025 10:00 AM
Sample Name: Group 2 Wastewater WW-CT
Sampling Site: Thai Malaya Glass (Thailand) Co.,Ltd.
Contract ID: WWT_WHASIL_001_2568
Plot: 45,46,143
Date of Analysis: Dec 02, 2025
Sampled by: Anuwat Phuluan (1-204-s-0148)
Condition of Sample: 1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties: yellow, strong odour, lots of solids, highly turbid

Analytical Results

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	70.0	≤500	EN0044	Bangkok
COD	mg/L	-	25	194	≤750	EN0046	Bangkok
Oil & Grease	mg/L	-	3	36	≤10	EN0048	Bangkok
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.5	5.5-9	EN0020	Bangkok
Temperature *	°C	-	-	29.9	≤40	EN0097	Bangkok
Total Suspended Solids	mg/L	-	5	90	≤200	EN0102	Bangkok

Guideline: Industrial Land on Criteria of wastewater discharging to central wastewater treatment plant
Comment: Sampling is not included in scope of accreditation ISO/IEC 17025
Key:
- 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

Signatories

Sirilak Bunnak, Section Head, 1-204-s-0013

Kanokkorn Anek, Assistant General Manager, 1-204-e-0004

Analysis Report

Work Order: BK2541574 | Date Received: Dec 01, 2025 | Date Reported: Dec 09, 2025 | Report Number: BK2541574-AA

Brief Method Summaries

The methods in the analysis report are short format, refer to full test methods in accordance with the ISO/IEC 17025 certificate no. specified in the analysis report.

Method	Testing Lab	Method Descriptions
EN0020	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0097	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B
EN0102	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

—— END OF REPORT ——

Signatories

Sirilak Bunnak, Section Head, 1-204-s-0013

Kanokkorn Anek, Assistant General Manager, 1-204-e-0004

Analysis Report

Work Order: BK2541576
Client: WHA Utilities and Power Public Company Limited, 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140
Project: WHA SIL
Project Location: The Siam Cement (Talueng) Co.,Ltd._70,71,73_WWT_WHASIL_009_2560
Date Received: Dec 01, 2025 | Date Reported: Dec 09, 2025 | Report Number: BK2541576-AA

Sample Number: BK2541576-001
Sampled Date: Dec 01, 2025 09:30 AM
Sample Name: Group 2 Wastewater WW-CT
Sampling Site: The Siam Cement (Talueng) Co.,Ltd.
Contract ID: WWT_WHASIL_009_2560
Plot: 70,71,73
Date of Analysis: Dec 02, 2025
Sampled by: Nontawat Kumal (1-204-s-0015)
Condition of Sample: 1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties: yellow, strong odour, some solids, no turbidity

Analytical Results

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	19.8	≤500	EN0044	Bangkok
COD	mg/L	-	25	87	≤750	EN0046	Bangkok
Oil & Grease	mg/L	-	3	<3	≤10	EN0048	Bangkok
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.0	5.5-9	EN0020	Bangkok
Temperature *	°C	-	-	27.8	≤40	EN0097	Bangkok
Total Suspended Solids	mg/L	-	5	8	≤200	EN0102	Bangkok

Guideline: Industrial Land on Criteria of wastewater discharging to central wastewater treatment plant
Comment: Sampling is not included in scope of accreditation ISO/IEC 17025
Key:
- 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

Signatories

Sirilak Bunnak, Section Head, 1-204-s-0013

Kanokkorn Anek, Assistant General Manager, 1-204-e-0004

Analysis Report

Work Order: BK2541576 | Date Received: Dec 01, 2025 | Date Reported: Dec 09, 2025 | Report Number: BK2541576-AA

Client: WHA Utilities and Power Public Company Limited, 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140
Project: WHA SIL
Project Location: The Siam Cement (Talueng) Co.,Ltd._70,71,73_WWT_WHASIL_009_2560

Sample Number: BK2541576-001
Sampled Date: Dec 01, 2025 09:30 AM
Sample Name: Group 2 Wastewater WW-CT
Sampling Site: The Siam Cement (Talueng) Co.,Ltd.
Contract ID: WWT_WHASIL_009_2560
Plot: 70,71,73
Date of Analysis: Dec 02, 2025
Sampled by: Nontawat Kumal (1-204-s-0015)
Condition of Sample: 1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties: yellow, strong odour, some solids, no turbidity

Brief Method Summaries

The methods in the analysis report are short format, refer to full test methods in accordance with the ISO/IEC 17025 certificate no. specified in the analysis report.

Method	Testing Lab	Method Descriptions
EN0020	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0097	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B
EN0102	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

—— END OF REPORT ——

Signatories

Sirilak Bunnak, Section Head, 1-204-s-0013

Kanokkorn Anek, Assistant General Manager, 1-204-e-0004

Analysis Report

Work Order: BK2541577
Client: WHA Utilities and Power Public Company Limited, 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140
Project: WHA SIL
Project Location: Tiemen (Thailand) Corp.,Ltd._53,60_WWT_WHASIL_027_2564
Date Received: Dec 01, 2025 | Date Reported: Dec 09, 2025 | Report Number: BK2541577-AA

Sample Number: BK2541577-001
Sampled Date: Dec 01, 2025 10:50 AM
Sample Name: Group 2 Wastewater WW-CT
Sampling Site: Tiemen (Thailand) Corp.,Ltd.
Contract ID: WWT_WHASIL_027_2564
Plot: 53,60
Date of Analysis: Dec 02, 2025
Sampled by: Nontawat Kumal (1-204-s-0015)
Condition of Sample: 1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties: yellow, strong odour, lots of solids, highly turbid

Analytical Results

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	44.8	≤500	EN0044	Bangkok
COD	mg/L	-	25	181	≤750	EN0046	Bangkok
Oil & Grease	mg/L	-	3	6	≤10	EN0048	Bangkok
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.8	5.5-9	EN0020	Bangkok
Temperature *	°C	-	-	27.7	≤40	EN0097	Bangkok
Total Suspended Solids	mg/L	-	5	70	≤200	EN0102	Bangkok

Guideline: Industrial Land on Criteria of wastewater discharging to central wastewater treatment plant
Comment: Sampling is not included in scope of accreditation ISO/IEC 17025
Key:
- 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

Signatories

Sirilak Bunnak, Section Head, 1-204-s-0013

Kanokkorn Anek, Assistant General Manager, 1-204-e-0004

Analysis Report

Work Order: BK2541577 | Date Received: Dec 01, 2025 | Date Reported: Dec 09, 2025 | Report Number: BK2541577-AA

Client: WHA Utilities and Power Public Company Limited, 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140
Project: WHA SIL
Project Location: Tiemen (Thailand) Corp.,Ltd._53,60_WWT_WHASIL_027_2564

Sample Number: BK2541577-001
Sampled Date: Dec 01, 2025 10:50 AM
Sample Name: Group 2 Wastewater WW-CT
Sampling Site: Tiemen (Thailand) Corp.,Ltd.
Contract ID: WWT_WHASIL_027_2564
Plot: 53,60
Date of Analysis: Dec 02, 2025
Sampled by: Nontawat Kumal (1-204-s-0015)
Condition of Sample: 1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties: yellow, strong odour, lots of solids, highly turbid

Brief Method Summaries

The methods in the analysis report are short format, refer to full test methods in accordance with the ISO/IEC 17025 certificate no. specified in the analysis report.

Method	Testing Lab	Method Descriptions
EN0020	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0097	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B
EN0102	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

—— END OF REPORT ——

Signatories

Sirilak Bunnak, Section Head, 1-204-s-0013

Kanokkorn Anek, Assistant General Manager, 1-204-e-0004

Analysis Report

TESTING No.0009

Work Order	BK2541578	Date Received	Dec 01, 2025
Client	WHA Utilities and Power Public Company Limited, 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported	Dec 08, 2025
Project	WHA SIL	Report Number	BK2541578-AA
Project Location	TS Tech (Thailand) Co.,Ltd._147_WWT_WHASIL_061_2566		

Sample Number	BK2541578-001
Sampled Date	Dec 01, 2025 01:20 PM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	TS Tech (Thailand) Co.,Ltd
Contract ID	WWT_WHASIL_061_2566
Plot	147
Date of Analysis	Dec 02, 2025
Sampled by	Panupong Saenot (1-204-c-0204)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H_2SO_4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, strong odour, some solids, turbid

Analytical Results

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	20.0	≤500	EN0044	Bangkok
COD	mg/L	-	25	100	≤750	EN0046	Bangkok
Oil & Grease	mg/L	-	3	<3	≤10	EN0048	Bangkok
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.7	5.5-9	EN0020	Bangkok
Temperature *	°C	-	-	28.1	≤40	EN0097	Bangkok
Total Suspended Solids	mg/L	-	5	25	≤200	EN0102	Bangkok

Guideline : Industrial Land on Criteria of wastewater discharging to central wastewater treatment plant

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

Key :
- 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

Signatories

Sitluk Bunnak, Section Head, 1-204-c-0013

Kanokkorn Anek, Assistant General Manager, 1-204-e-0004

Analysis Report

TESTING No.0009

Work Order	BK2541578	Date Received	Dec 01, 2025
Client	WHA Utilities and Power Public Company Limited, 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported	Dec 08, 2025
Project	WHA SIL	Report Number	BK2541578-AA
Project Location	TS Tech (Thailand) Co.,Ltd._147_WWT_WHASIL_061_2566		

Sample Number	BK2541578-001
Sampled Date	Dec 01, 2025 01:20 PM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	TS Tech (Thailand) Co.,Ltd
Contract ID	WWT_WHASIL_061_2566
Plot	147
Date of Analysis	Dec 02, 2025
Sampled by	Panupong Saenot (1-204-c-0204)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H_2SO_4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, strong odour, some solids, turbid

Brief Method Summaries

The methods in the analysis report are short format, refer to full test methods in accordance with the ISO/IEC 17025 certificate no. specified in the analysis report.

Method	Testing Lab	Method Descriptions
EN0020	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0097	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B
EN0102	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

END OF REPORT

Signatories

Sitluk Bunnak, Section Head, 1-204-c-0013

Kanokkorn Anek, Assistant General Manager, 1-204-e-0004

Analysis Report

TESTING No.0009

Work Order	BK2541580	Date Received	Dec 09, 2025
Client	WHA Utilities and Power Public Company Limited, 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported	Dec 16, 2025
Project	WHA SIL	Report Number	BK2541580-AA
Project Location	Villeroy & Boch (Thailand) Co.,Ltd_4.32_WWT_WHASIL_012_2564		

Sample Number	BK2541580-001
Sampled Date	Dec 09, 2025 01:40 PM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	Villeroy & Boch (Thailand) Co.,Ltd
Contract ID	WWT_WHASIL_012_2564
Plot	4.32
Date of Analysis	Dec 11, 2025
Sampled by	Panupong Saenot (1-204-c-0204)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H_2SO_4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, strong odour, some solids, highly turbid

Analytical Results

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	73.1	≤500	EN0044	Bangkok
COD	mg/L	-	25	142	≤750	EN0046	Bangkok
Oil & Grease	mg/L	-	3	6	≤10	EN0048	Bangkok
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.4	5.5-9	EN0020	Bangkok
Temperature *	°C	-	-	30.0	≤40	EN0097	Bangkok
Total Suspended Solids	mg/L	-	5	19	≤200	EN0102	Bangkok

Guideline : Industrial Land on Criteria of wastewater discharging to central wastewater treatment plant

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

Key :
- 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

Signatories

Sitluk Bunnak, Section Head, 1-204-c-0013

Kanokkorn Anek, Assistant General Manager, 1-204-e-0004

Analysis Report

TESTING No.0009

Work Order	BK2541580	Date Received	Dec 09, 2025
Client	WHA Utilities and Power Public Company Limited, 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported	Dec 16, 2025
Project	WHA SIL	Report Number	BK2541580-AA
Project Location	Villeroy & Boch (Thailand) Co.,Ltd_4.32_WWT_WHASIL_012_2564		

Sample Number	BK2541580-001
Sampled Date	Dec 09, 2025 01:40 PM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	Villeroy & Boch (Thailand) Co.,Ltd
Contract ID	WWT_WHASIL_012_2564
Plot	4.32
Date of Analysis	Dec 11, 2025
Sampled by	Panupong Saenot (1-204-c-0204)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H_2SO_4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, strong odour, some solids, highly turbid

Brief Method Summaries

The methods in the analysis report are short format, refer to full test methods in accordance with the ISO/IEC 17025 certificate no. specified in the analysis report.

Method	Testing Lab	Method Descriptions
EN0020	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0097	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B
EN0102	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

END OF REPORT

Signatories

Sitluk Bunnak, Section Head, 1-204-c-0013

Kanokkorn Anek, Assistant General Manager, 1-204-e-0004

Analysis Report

TESTING No.0009

Work Order	BK2541581	Date Received	Dec 01, 2025
Client	WHA Utilities and Power Public Company Limited, 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported	Dec 08, 2025
Project	WHA SIL	Report Number	BK2541581-AA
Project Location	WHA Corporation Public Limited Company_153-154_WWT_WHASIL_074_2567		

Sample Number	BK2541581-001
Sampled Date	Dec 01, 2025
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	WHA Corporation Public Limited Company
Contract ID	WWT_WHASIL_074_2567
Plot	153-154
Date of Analysis	Dec 02, 2025
Sampled by	Teerawat Puangsuk (1-204-c-0061)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H_2SO_4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, strong odour, lots of solids, highly turbid

Analytical Results

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	72.8	≤500	EN0044	Bangkok
COD	mg/L	-	25	220	≤750	EN0046	Bangkok
Oil & Grease	mg/L	-	3	<3	≤10	EN0048	Bangkok
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.4	5.5-9	EN0020	Bangkok
Temperature *	°C	-	-	28.6	≤40	EN0097	Bangkok
Total Suspended Solids	mg/L	-	5	23	≤200	EN0102	Bangkok

Guideline : Industrial Land on Criteria of wastewater discharging to central wastewater treatment plant

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

Key :
- 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

Signatories

Sitluk Bunnak, Section Head, 1-204-c-0013

Kanokkorn Anek, Assistant General Manager, 1-204-e-0004

Analysis Report

TESTING No.0009

Work Order	BK2541581	Date Received	Dec 01, 2025
Client	WHA Utilities and Power Public Company Limited, 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported	Dec 08, 2025
Project	WHA SIL	Report Number	BK2541581-AA
Project Location	WHA Corporation Public Limited Company_153-154_WWT_WHASIL_074_2567		

Sample Number	BK2541581-001
Sampled Date	Dec 01, 2025
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	WHA Corporation Public Limited Company
Contract ID	WWT_WHASIL_074_2567
Plot	153-154
Date of Analysis	Dec 02, 2025
Sampled by	Teerawat Puangsuk (1-204-c-0061)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H_2SO_4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, strong odour, lots of solids, highly turbid

Brief Method Summaries

The methods in the analysis report are short format, refer to full test methods in accordance with the ISO/IEC 17025 certificate no. specified in the analysis report.

Method	Testing Lab	Method Descriptions
EN0020	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0097	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B
EN0102	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

END OF REPORT

Signatories

Sitluk Bunnak, Section Head, 1-204-c-0013

Kanokkorn Anek, Assistant General Manager, 1-204-e-0004

Analysis Report

TESTING No.0009

Work Order	BK2541582	Date Received	Dec 01, 2025
Client	WHA Utilities and Power Public Company Limited, 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported	Dec 08, 2025
Project	WHA SIL	Report Number	BK2541582-AA
Project Location	WHA Corporation Public Limited Company_93A/1_WWT_WHASIL_075_2567		

Sample Number	BK2541582-001
Sampled Date	Dec 01, 2025 11:06 AM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	WHA Corporation Public Limited Company
Contract ID	WWT_WHASIL_075_2567
Plot	93A/1
Date of Analysis	Dec 02, 2025
Sampled by	Teerawat Puangsuk (1-204-c-0061)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H_2SO_4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, strong odour, lots of solids, highly turbid

Analytical Results

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	36.8	≤500	EN0044	Bangkok
COD	mg/L	-	25	102	≤750	EN0046	Bangkok
Oil & Grease	mg/L	-	3	3	≤10	EN0048	Bangkok
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.4	5.5-9	EN0020	Bangkok
Temperature *	°C	-	-	28.9	≤40	EN0097	Bangkok
Total Suspended Solids	mg/L	-	5	32	≤200	EN0102	Bangkok

Guideline : Industrial Land on Criteria of wastewater discharging to central wastewater treatment plant

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

Key :
- 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

Signatories

Sitluk Bunnak, Section Head, 1-204-c-0013

Kanokkorn Anek, Assistant General Manager, 1-204-e-0004

Analysis Report

TESTING No.0009

Work Order	BK2541582	Date Received	Dec 01, 2025
Client	WHA Utilities and Power Public Company Limited, 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported	Dec 08, 2025
Project	WHA SIL	Report Number	BK2541582-AA
Project Location	WHA Corporation Public Limited Company_93A/1_WWT_WHASIL_075_2567		

Sample Number	BK2541582-001
Sampled Date	Dec 01, 2025 11:06 AM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	WHA Corporation Public Limited Company
Contract ID	WWT_WHASIL_075_2567
Plot	93A/1
Date of Analysis	Dec 02, 2025
Sampled by	Teerawat Puangsuk (1-204-c-0061)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H_2SO_4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, strong odour, lots of solids, highly turbid

Brief Method Summaries

The methods in the analysis report are short format, refer to full test methods in accordance with the ISO/IEC 17025 certificate no. specified in the analysis report.

Method	Testing Lab	Method Descriptions
EN0020	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0097	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B
EN0102	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

END OF REPORT

Signatories

Sitluk Bunnak, Section Head, 1-204-c-0013

Kanokkorn Anek, Assistant General Manager, 1-204-e-0004

Analysis Report

TESTING No.0009

Work Order	BK2541583	Date Received	Dec 01, 2025
Client	WHA Utilities and Power Public Company Limited, 111 Moo 7, Nong Pla Kradi Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported	Dec 17, 2025
Project	WHA SIL	Report Number	BK2541583-AA (1)
Project Location	WHA Corporation Public Limited Company_151-152_WWT_WHASIL_037_2566		

Sample Number	BK2541583-001
Sampled Date	Dec 01, 2025 10:40 AM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	WHA Corporation Public Limited Company
Contract ID	WWT_WHASIL_037_2566
Plot	151-152
Date of Analysis	Dec 02, 2025
Sampled by	Teerawat Puangsuk (1-204-c-0061)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H_2SO_4, 1x Oil & Grease, 1x Logsheet data, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, strong odour, lots of solids, turbid

Analytical Results

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	19.6	≤500	EN0044	Bangkok
COD	mg/L	-	25	57	≤750	EN0046	Bangkok
Oil & Grease	mg/L	-	3	<3	≤10	EN0048	Bangkok
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.2	5.5-9	EN0020	Bangkok
Temperature *	°C	-	-	28.4	≤40	EN0097	Bangkok
Total Suspended Solids	mg/L	-	5	54	≤200	EN0102	Bangkok

Guideline : Industrial Land on Criteria of wastewater discharging to central wastewater treatment plant

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

Key :
- 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

Signatories

Sitluk Bunnak, Section Head, 1-204-c-0013

Kanokkorn Anek, Assistant General Manager, 1-204-e-0004

Analysis Report

TESTING No.0009

Work Order	BK2541583	Date Received	Dec 01, 2025
Client	WHA Utilities and Power Public Company Limited 111 Moo 7, Nong Pla Khod Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported	Dec 17, 2025
		Report Number	BK2541583-AA (1)
Project	WHA SIL		
Project Location	WHA Corporation Public Limited Company_151-152_,_WWT_WHASIL_031_2568		

Sample Number	BK2541583-001
Sampled Date	Dec 01, 2025 10:40 AM
Sample Name	Group 2 Wastewater WW-CT
Sampling Site	WHA Corporation Public Limited Company
Contract ID	WWT_WHASIL_031_2568
Plot	151-152
Date of Analysis	Dec 02, 2025
Sampled by	Teerawat Puangpuk (1-204-n-0001)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet (size, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, strong odour, lots of solids, turbid

Brief Method Summaries

The methods in the analysis report are short forms; refer to full test methods in accordance with the ISO/IEC 17025 certificate no. specified in the analysis report.

Method	Testing Lab	Method Descriptions
EN0020	Bangkok	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 – H (B)
EN0044	Bangkok	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 – O (G)
EN0048	Bangkok	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0045	Bangkok	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0097	Bangkok	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2550 B
EN0152	Bangkok	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

—— END OF REPORT ——

Signatories

Sirikuk Burnuk
Section Head
1-204-n-0013

Kanokkorn Areik
Assistant General Manager
1-204-n-0004

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

Analysis Report

TESTING No.0009

Work Order	BK2541586	Date Received	Dec 01, 2025
Client	WHA Utilities and Power Public Company Limited 111 Moo 7, Nong Pla Khod Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported	Dec 08, 2025
		Report Number	BK2541586-AA
Project	WHA SIL		
Project Location	World Quality Co.,Ltd._27(F)_,_WWT_WHASIL_089_2567		

Sample Number	BK2541586-001
Sampled Date	Dec 01, 2025 10:40 AM
Sample Name	Group 2 Wastewater WW-CT : Point 1
Sampling Site	World Quality Co.,Ltd.
Contract ID	WWT_WHASIL_089_2567
Plot	27(F)
Date of Analysis	Dec 02, 2025
Sampled by	Panupong Saenon (1-204-n-0204)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet (size, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, strong odour, some solids, turbid

Analytical Results

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	103	≤300	EN0044	Bangkok
COD	mg/L	-	25	184	≤750	EN0048	Bangkok
Oil & Grease	mg/L	-	3	4	≤15	EN0045	Bangkok
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.0	5.5-9	EN0020	Bangkok
Temperature *	°C	-	-	28.8	≤40	EN0097	Bangkok
Total Suspended Solids	mg/L	-	5	20	≤200	EN0152	Bangkok

Guideline : Industrial Land on Effluent of wastewater discharging to central wastewater treatment plant

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

Key
- LOD : Limit of Detection
- "-" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analytical method " * " is not indicated in scope of Accreditation ISO/IEC17025

Signatories

Sirikuk Burnuk
Section Head
1-204-n-0013

Kanokkorn Areik
Assistant General Manager
1-204-n-0004

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

Analysis Report

TESTING No.0009

Work Order	BK2541586	Date Received	Dec 01, 2025
Client	WHA Utilities and Power Public Company Limited 111 Moo 7, Nong Pla Khod Rd., Tambon Nong Pla Mo, Amphoe Nong Khae, Saraburi, Thailand, 18140	Date Reported	Dec 08, 2025
		Report Number	BK2541586-AA
Project	WHA SIL		
Project Location	World Quality Co.,Ltd._27(F)_,_WWT_WHASIL_089_2567		

Sample Number	BK2541586-001
Sampled Date	Dec 01, 2025 10:40 AM
Sample Name	Group 2 Wastewater WW-CT : Point 1
Sampling Site	World Quality Co.,Ltd.
Contract ID	WWT_WHASIL_089_2567
Plot	27(F)
Date of Analysis	Dec 02, 2025
Sampled by	Panupong Saenon (1-204-n-0204)
Condition of Sample	1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet (size, 1x 500mL Plastic Bottle, refrigerated
Physical Properties	yellow, strong odour, some solids, turbid

Brief Method Summaries

The methods in the analysis report are short forms; refer to full test methods in accordance with the ISO/IEC 17025 certificate no. specified in the analysis report.

Method	Testing Lab	Method Descriptions
EN0020	Bangkok	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 – H (B)
EN0044	Bangkok	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 – O (G)
EN0048	Bangkok	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0045	Bangkok	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0097	Bangkok	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2550 B
EN0152	Bangkok	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

—— END OF REPORT ——

Signatories

Sirikuk Burnuk
Section Head
1-204-n-0013

Kanokkorn Areik
Assistant General Manager
1-204-n-0004

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ภาคผนวก ค-7

ตะกอนจากระบบบำบัดน้ำเสียส่วนกลาง
และตะกอนจากระบบผลิตน้ำใช้เพื่อการอุตสาหกรรม

Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name :
Project Location: WHA SIL

Lot ID: 2589453
Date Received : Oct 07, 2025
Date Reported : Oct 17, 2025
Report Number : 3429759-1

Sample Number	2589453-1
Sampled Date	Oct 07, 2025 9:55 AM
Sample Description	Solid Waste
Location	WHA SIL : กากตะกอนจากระบบบำบัดน้ำเสียส่วนกลาง (WWTP)
Date Analysis Commenced	Oct 08, 2025
Condition of Sample	Packed in one plastic bag, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Total Concentration Test (TTLC) : Metals							
Arsenic	mg/kg	-	0.50	4.51	<500	United States Environmental Protection Agency, EPA Method 3050 B and 6010 D	Bangkok
Barium	mg/kg	-	1.00	149	<10000	United States Environmental Protection Agency, EPA Method 3050 B and 6010 D	Bangkok
Cadmium	mg/kg	-	0.50	<0.50	<100	United States Environmental Protection Agency, EPA Method 3050 B and 6010 D	Bangkok
Chromium	mg/kg	-	1.00	20.7	<2500	United States Environmental Protection Agency, EPA Method 3050 B and 6010 D	Bangkok
Copper	mg/kg	-	1.00	61.7	<2500	United States Environmental Protection Agency, EPA Method 3050 B and 6010 D	Bangkok
Lead	mg/kg	-	1.00	11.6	<1000	United States Environmental Protection Agency, EPA Method 3050 B and 6010 D	Bangkok
Mercury	mg/kg	-	0.10	0.11	<20	United States Environmental Protection Agency, EPA Method 7473	Bangkok
Nickel	mg/kg	-	1.00	26.4	<2000	United States Environmental Protection Agency, EPA Method 3050 B and 6010 D	Bangkok
Selenium	mg/kg	-	0.50	0.62	<100	United States Environmental Protection Agency, EPA Method 3050 B and 6010 D	Bangkok
Zinc	mg/kg	-	1.00	434	<5000	United States Environmental Protection Agency, EPA Method 3050 B and 6010 D	Bangkok

Guideline : Notification of the Ministry of Industry regarding Waste or Used Material Disposal, B.E. 2566 (2023).
Sampling By : Chainarong Sriburin ทะเบียนเลขที่ ว-204-จ-0149

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

Technical Management
Sawitree N.
Sawitree Noisangiam
Manager
ทะเบียนเลขที่ ว-204-จ-0007

Approved by
Kanokkorn Anek
Assistant General Manager
ทะเบียนเลขที่ ว-204-ค-0004

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.

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand | PHONE +66 0 2760 3000 | FAX +66 0 2760 3197
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name :
Project Location: WHA SIL

Lot ID: 2589453
Date Received : Oct 07, 2025
Date Reported : Oct 17, 2025
Report Number : 3429759-2

Sample Number	2589453-1
Sampled Date	Oct 07, 2025 9:55 AM
Sample Description	Solid Waste
Location	WHA SIL : กากตะกอนจากระบบบำบัดน้ำเสียส่วนกลาง (WWTP)
Date Analysis Commenced	Oct 08, 2025
Condition of Sample	Packed in one plastic bag, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Total Concentration Test (TTLC) : Metals							
Manganese	mg/kg	-	1.00	56.9	No Standard	United States Environmental Protection Agency, EPA Method 3050 B and 6010 D	Bangkok

Guideline : Notification of the Ministry of Industry regarding Waste or Used Material Disposal, B.E. 2566 (2023).
Sampling By : Chainarong Sriburin

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

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand | PHONE +66 0 2760 3000 | FAX +66 0 2760 3197
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name :
Project Location: WHA SIL

Lot ID: 2589453
Date Received : Oct 07, 2025
Date Reported : Oct 17, 2025
Report Number : 3429760-1

Sample Number	2589453-2
Sampled Date	Oct 07, 2025 10:55 AM
Sample Description	Solid Waste
Location	WHA SIL : กากตะกอนจากระบบผลิตน้ำใช้เพื่ออุตสาหกรรม (WTP)
Date Analysis Commenced	Oct 08, 2025
Condition of Sample	Packed in one plastic bag, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Total Concentration Test (TTLC) : Metals							
Arsenic	mg/kg	-	0.50	3.13	<500	United States Environmental Protection Agency, EPA Method 3050 B and 6010 D	Bangkok
Barium	mg/kg	-	1.00	42.5	<10000	United States Environmental Protection Agency, EPA Method 3050 B and 6010 D	Bangkok
Cadmium	mg/kg	-	0.50	<0.50	<100	United States Environmental Protection Agency, EPA Method 3050 B and 6010 D	Bangkok
Chromium	mg/kg	-	1.00	10.0	<2500	United States Environmental Protection Agency, EPA Method 3050 B and 6010 D	Bangkok
Copper	mg/kg	-	1.00	9.02	<2500	United States Environmental Protection Agency, EPA Method 3050 B and 6010 D	Bangkok
Lead	mg/kg	-	1.00	4.69	<1000	United States Environmental Protection Agency, EPA Method 3050 B and 6010 D	Bangkok
Mercury	mg/kg	-	0.10	<0.10	<20	United States Environmental Protection Agency, EPA Method 7473	Bangkok
Nickel	mg/kg	-	1.00	8.41	<2000	United States Environmental Protection Agency, EPA Method 3050 B and 6010 D	Bangkok
Selenium	mg/kg	-	0.50	<0.50	<100	United States Environmental Protection Agency, EPA Method 3050 B and 6010 D	Bangkok
Zinc	mg/kg	-	1.00	17.8	<5000	United States Environmental Protection Agency, EPA Method 3050 B and 6010 D	Bangkok

Guideline : Notification of the Ministry of Industry regarding Waste or Used Material Disposal, B.E. 2566 (2023).
Sampling By : Chainarong Sriburin ทะเบียนเลขที่ ว-204-จ-0149

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

Technical Management
Sawitree N.
Sawitree Noisangiam
Manager
ทะเบียนเลขที่ ว-204-จ-0007

Approved by
Kanokkorn Anek
Assistant General Manager
ทะเบียนเลขที่ ว-204-ค-0004

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.

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand | PHONE +66 0 2760 3000 | FAX +66 0 2760 3197
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name :
Project Location: WHA SIL

Lot ID: 2589453
Date Received : Oct 07, 2025
Date Reported : Oct 17, 2025
Report Number : 3429760-2

Sample Number	2589453-2
Sampled Date	Oct 07, 2025 10:55 AM
Sample Description	Solid Waste
Location	WHA SIL : กากตะกอนจากระบบผลิตน้ำใช้เพื่ออุตสาหกรรม (WTP)
Date Analysis Commenced	Oct 08, 2025
Condition of Sample	Packed in one plastic bag, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Total Concentration Test (TTLC) : Metals							
Manganese	mg/kg	-	1.00	356	No Standard	United States Environmental Protection Agency, EPA Method 3050 B and 6010 D	Bangkok

Guideline : Notification of the Ministry of Industry regarding Waste or Used Material Disposal, B.E. 2566 (2023).
Sampling By : Chainarong Sriburin

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

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand | PHONE +66 0 2760 3000 | FAX +66 0 2760 3197
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name :
Project Location: WHA SIL

Lot ID: 2589453
Date Received : Oct 07, 2025
Date Reported : Oct 17, 2025
Report Number : 3429761-1

Sample Number	2589453-3
Sampled Date	Oct 07, 2025 9:55 AM
Sample Description	Solid Waste
Location	WHA SIL : กากตะกอนจากระบบบำบัดน้ำเสียส่วนกลาง
Date Analysis Commenced	Oct 08, 2025
Condition of Sample	Packed in one plastic bag, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Waste Extraction Test (STLC) : Metals							
Arsenic	mg/L	-	0.01	0.06	<5	MOI, B.E.2566	Bangkok
Barium	mg/L	-	0.01	7.58	<100	MOI, B.E.2566	Bangkok
Cadmium	mg/L	-	0.01	0.01	<1	MOI, B.E.2566	Bangkok
Chromium	mg/L	-	0.03	0.84	<5	MOI, B.E.2566	Bangkok
Copper	mg/L	-	0.01	0.91	<25	MOI, B.E.2566	Bangkok
Lead	mg/L	-	0.01	0.61	<5	MOI, B.E.2566	Bangkok
Mercury	mg/L	-	0.001	<0.001	<0.2	MOI, B.E.2566	Bangkok
Nickel	mg/L	-	0.01	0.87	<20	MOI, B.E.2566	Bangkok
Selenium	mg/L	-	0.01	<0.01	<1	MOI, B.E.2566	Bangkok
Zinc	mg/L	-	0.01	25.4	<250	MOI, B.E.2566	Bangkok

Guideline : Notification of the Ministry of Industry regarding Waste or Used Material Disposal, B.E. 2566 (2023).

Sampling By : Chainarong Sriburin ทะเบียนเลขที่ ว-204-จ-0149

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

Technical Management
Sawitree N.
Sawitree Noisangiam
Manager
ทะเบียนเลขที่ ว-204-จ-0007

Approved by
Kanokkorn Anek
Kanokkorn Anek
Assistant General Manager
ทะเบียนเลขที่ ว-204-ค-0004

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

Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name :
Project Location: WHA SIL

Lot ID: 2589453
Date Received : Oct 07, 2025
Date Reported : Oct 17, 2025
Report Number : 3429761-2

Sample Number	2589453-3
Sampled Date	Oct 07, 2025 9:55 AM
Sample Description	Solid Waste
Location	WHA SIL : กากตะกอนจากระบบบำบัดน้ำเสียส่วนกลาง
Date Analysis Commenced	Oct 10, 2025
Condition of Sample	Packed in one plastic bag, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Waste Extraction Test (STLC) : Metals							
Manganese	mg/L	-	0.01	3.04	No Standard	MOI, B.E.2566	Bangkok

Guideline : Notification of the Ministry of Industry regarding Waste or Used Material Disposal, B.E. 2566 (2023).

Sampling By : Chainarong Sriburin

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

Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name :
Project Location: WHA SIL

Lot ID: 2589453
Date Received : Oct 07, 2025
Date Reported : Oct 17, 2025
Report Number : 3429762-1

Sample Number	2589453-4
Sampled Date	Oct 07, 2025 10:55 AM
Sample Description	Solid Waste
Location	WHA SIL : กากตะกอนจากระบบผลิตน้ำใช้เพื่ออุตสาหกรรม
Date Analysis Commenced	Oct 08, 2025
Condition of Sample	Packed in one plastic bag, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Waste Extraction Test (STLC) : Metals							
Arsenic	mg/L	-	0.01	0.13	<5	MOI, B.E.2566	Bangkok
Barium	mg/L	-	0.01	3.12	<100	MOI, B.E.2566	Bangkok
Cadmium	mg/L	-	0.01	<0.01	<1	MOI, B.E.2566	Bangkok
Chromium	mg/L	-	0.03	0.08	<5	MOI, B.E.2566	Bangkok
Copper	mg/L	-	0.01	0.22	<25	MOI, B.E.2566	Bangkok
Lead	mg/L	-	0.01	0.15	<5	MOI, B.E.2566	Bangkok
Mercury	mg/L	-	0.001	<0.001	<0.2	MOI, B.E.2566	Bangkok
Nickel	mg/L	-	0.01	0.10	<20	MOI, B.E.2566	Bangkok
Selenium	mg/L	-	0.01	<0.01	<1	MOI, B.E.2566	Bangkok
Zinc	mg/L	-	0.01	0.27	<250	MOI, B.E.2566	Bangkok

Guideline : Notification of the Ministry of Industry regarding Waste or Used Material Disposal, B.E. 2566 (2023).

Sampling By : Chainarong Sriburin ทะเบียนเลขที่ ว-204-จ-0149

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

Technical Management
Sawitree N.
Sawitree Noisangiam
Manager
ทะเบียนเลขที่ ว-204-จ-0007

Approved by
Kanokkorn Anek
Assistant General 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.

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ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name :
Project Location: WHA SIL

Lot ID: 2589453
Date Received : Oct 07, 2025
Date Reported : Oct 17, 2025
Report Number : 3429762-2

Sample Number	2589453-4
Sampled Date	Oct 07, 2025 10:55 AM
Sample Description	Solid Waste
Location	WHA SIL : กากตะกอนจากระบบผลิตน้ำใช้เพื่ออุตสาหกรรม
Date Analysis Commenced	Oct 10, 2025
Condition of Sample	Packed in one plastic bag, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Waste Extraction Test (STLC) : Metals							
Manganese	mg/L	-	0.01	21.2	No Standard	MOI, B.E.2566	Bangkok

Guideline : Notification of the Ministry of Industry regarding Waste or Used Material Disposal, B.E. 2566 (2023).

Sampling By : Chainarong Sriburin

Remark :
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- "<" : 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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