ภาคผนวก ค

ใบรับรองผลการตรวจวัดคุณภาพสิ่งแวดล้อม

ภาคผนวก ค-1

คุณภาพอากาศในบรรยากาศ

LABORATORY ACCREDITATION
BLA-DSS

Analysis / Test Report

TESTING
No.0042

Client : WHA Eastern Industrial Estate Co., Ltd.
18, Pakornsongkrohraj Road, Tambol Huaypong, Amphur Muang, Rayong Thailand
21150
P/O :
Project Name : Monitoring
Project Location : WHA EIE

Lot ID: 2613355
Date Received : Mar 09, 2026
Date Reported : Mar 12, 2026
Report Number: 3506185-2

Page 1 of 1

Sample Description	Air Quality
Location	วัดหนองแฟบ(A2) (GPS 47P 0729828, 1403318)
Date Analysis Commenced	Mar 10, 2026
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		Total Suspended Particulate (ug/m3)	Particulate Matter (PM-10) (ug/m3)
		Pressure (mm Hg)	Temperature (°C)		
2613355-8	Mar 01 - Mar 02, 2026	759	31.3	19.6	10.2
2613355-9	Mar 02 - Mar 03, 2026	759	32.0	33.7	18.9
2613355-10	Mar 03 - Mar 04, 2026	759	31.4	50.0	30.5
2613355-11	Mar 04 - Mar 05, 2026	759	32.4	55.9	35.2
2613355-12	Mar 05 - Mar 06, 2026	759	31.0	74.1	45.3
2613355-13	Mar 06 - Mar 07, 2026	759	30.8	37.5	23.8
2613355-14	Mar 07 - Mar 08, 2026	759	31.0	33.0	20.5
Guideline		-	-	200	100

Reference Method

Total Suspended Particulate : United States Environmental Protection Agency 40 CFR, method 50, Appendix B, revised as of July 1, 2008
Particulate Metter (PM-10) : United States Environmental Protection Agency 40 CFR, method 50, Appendix J, revised as of July 1, 2008

Guideline : Notification of the National Environmental Board., 2026 (B.E.2569) dated January 21, 2026.
Sampled By : Nontachai Uppathamp

Approved by Thanita K.
Thanita Kulsuriwong
Scientist (4)

LABORATORY ACCREDITATION
BLA-DSS

Analysis / Test Report

TESTING
No.0042

Client : WHA Eastern Industrial Estate Co., Ltd.
18, Pakornsongkrohraj Road, Tambol Huaypong, Amphur Muang, Rayong Thailand
21150
P/O :
Project Name : Monitoring
Project Location : WHA EIE

Lot ID: 2613355
Date Received : Mar 09, 2026
Date Reported : Mar 12, 2026
Report Number: 3506185-1

Page 1 of 1

Sample Description	Air Quality
Location	สำนักงานนิคมอุตสาหกรรมดับบลิวเอชเอตะวันออก(มาบตาพุด)(A1)(GPS 47P 0730907, 1405264)
Date Analysis Commenced	Mar 10, 2026
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		Total Suspended Particulate (ug/m3)	Particulate Matter (PM-10) (ug/m3)
		Pressure (mm Hg)	Temperature (°C)		
2613355-1	Mar 01 - Mar 02, 2026	759	31.3	15.8	9.1
2613355-2	Mar 02 - Mar 03, 2026	759	32.0	29.8	16.7
2613355-3	Mar 03 - Mar 04, 2026	759	31.4	43.8	29.1
2613355-4	Mar 04 - Mar 05, 2026	759	32.4	52.2	32.5
2613355-5	Mar 05 - Mar 06, 2026	759	31.0	55.1	39.4
2613355-6	Mar 06 - Mar 07, 2026	759	30.8	42.1	25.1
2613355-7	Mar 07 - Mar 08, 2026	759	31.0	37.2	19.2
Guideline		-	-	200	100

Reference Method

Total Suspended Particulate : United States Environmental Protection Agency 40 CFR, method 50, Appendix B, revised as of July 1, 2008
Particulate Metter (PM-10) : United States Environmental Protection Agency 40 CFR, method 50, Appendix J, revised as of July 1, 2008

Guideline : Notification of the National Environmental Board., 2026 (B.E.2569) dated January 21, 2026.
Sampled By : Nontachai Uppathamp

Approved by Thanita K.
Thanita Kulsuriwong
Scientist (4)

Analysis / Test Report

Client : WHA Eastern Industrial Estate Co., Ltd.
18, Pakornsongkrohraj Road, Tambol Huaypong, Amphur Muang, Rayong Thailand
21150
P/O :
Project Name : Monitoring
Project Location : WHA EIE

Lot ID: 2613354
Date Received : Mar 09, 2026
Date Reported : Mar 13, 2026
Report Number: 3506177-1

Page 1 of 1

Sample Description	Air Quality
Location	สำนักงานนิคมอุตสาหกรรมดับบลิวเอชเอตะวันออก(มาบตาพุด)(A1)(GPS 47P 0730907, 1405264)
Parameter	Sulfur Dioxide (ppb)
Measurement Date	Mar 01, 2026 - Mar 08, 2026
Measurement by	Nontachai Uppathamp

Time	2613354-1 Mar 01, 2026	2613354-2 Mar 02, 2026	2613354-3 Mar 03, 2026	2613354-4 Mar 04, 2026	2613354-5 Mar 05, 2026	2613354-6 Mar 06, 2026	2613354-7 Mar 07, 2026
10:00 AM - 11:00 AM	3.6	3.5	3.4	3.5	3.4	3.5	3.6
11:00 AM - 12:00 PM	3.6	3.5	3.4	3.3	3.4	3.5	3.6
12:00 PM - 01:00 PM	3.6	2.9	3.1	3.4	3.4	3.5	3.6
01:00 PM - 02:00 PM	3.4	3.4	3.4	3.4	3.4	3.4	3.6
02:00 PM - 03:00 PM	4.0	3.4	3.4	3.4	3.4	3.5	3.5
03:00 PM - 04:00 PM	4.0	3.4	3.4	3.3	3.4	3.5	3.6
04:00 PM - 05:00 PM	3.9	3.4	3.4	3.3	3.4	3.5	3.5
05:00 PM - 06:00 PM	3.9	3.4	3.5	3.3	3.4	3.5	3.5
06:00 PM - 07:00 PM	4.0	3.4	3.5	3.3	3.5	3.5	3.5
07:00 PM - 08:00 PM	3.8	3.5	3.5	3.3	3.4	3.5	3.5
08:00 PM - 09:00 PM	3.8	3.0	3.4	3.4	3.5	3.5	3.4
09:00 PM - 10:00 PM	3.8	3.3	3.4	3.3	3.4	3.6	3.4
10:00 PM - 11:00 PM	3.8	3.4	3.5	3.3	3.5	3.6	3.4
11:00 PM - 12:00 AM	3.8	3.3	3.5	3.4	3.4	3.6	3.5
12:00 AM - 01:00 AM	3.7	3.4	3.5	3.4	3.4	3.6	3.4
01:00 AM - 02:00 AM	3.7	3.4	3.5	3.4	3.5	3.7	3.4
02:00 AM - 03:00 AM	3.7	3.4	3.5	3.4	3.5	3.5	3.4
03:00 AM - 04:00 AM	3.7	3.4	3.5	3.4	3.5	3.6	3.6
04:00 AM - 05:00 AM	3.7	3.5	3.5	3.4	3.6	3.6	3.5
05:00 AM - 06:00 AM	3.6	3.4	3.5	3.4	3.5	3.5	3.5
06:00 AM - 07:00 AM	3.6	3.5	3.4	3.4	3.5	3.5	3.5
07:00 AM - 08:00 AM	3.7	3.5	3.4	3.4	3.6	3.5	3.5
08:00 AM - 09:00 AM	3.6	3.4	3.4	3.5	3.5	3.6	3.5
09:00 AM - 10:00 AM	3.5	3.4	3.4	3.4	3.5	3.5	3.5
Average	3.7	3.4	3.4	3.4	3.5	3.5	3.5
1hr - Maximum	4.0	3.5	3.5	3.5	3.6	3.7	3.6
Standard 1hr - Average	100	100	100	100	100	100	100
Standard 24 hrs - Average	50	50	50	50	50	50	50

Standard : Notification of the National Environment Board B.E. 2569.
Reference Method : U.S. Environmental Protection Agency, EPA Method Part 53 and 58

Approved by Orawan R.
Orawan Rakyong
Scientist (3)

LABORATORY ACCREDITATION
BLA-DSS
TESTING
No.0042

Analysis / Test Report

Client : WHA Eastern Industrial Estate Co., Ltd.
18, Pakornsongkrohraj Road, Tambol Huaypong, Amphur Muang, Rayong Thailand
21150
P/O :
Project Name : Monitoring
Project Location : WHA EIE

Lot ID: 2613355
Date Received : Mar 09, 2026
Date Reported : Mar 12, 2026
Report Number: 3506185-3

Page 1 of 1

Sample Description	Air Quality
Location	วัดมาบชลูด(A3) (GPS 47P 0730826, 1407360)
Date Analysis Commenced	Mar 10, 2026
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 (ug/m3)	Particulate Matter (PM-10) (ug/m3)
2613355-15	Mar 01 - Mar 02, 2026	759	31.3	29.6	16.8
2613355-16	Mar 02 - Mar 03, 2026	759	32.0	45.8	27.3
2613355-17	Mar 03 - Mar 04, 2026	759	31.4	59.1	44.2
2613355-18	Mar 04 - Mar 05, 2026	759	32.4	70.5	45.9
2613355-19	Mar 05 - Mar 06, 2026	759	31.0	63.9	44.7
2613355-20	Mar 06 - Mar 07, 2026	759	30.8	45.8	27.6
2613355-21	Mar 07 - Mar 08, 2026	759	31.0	41.1	21.1
Guideline		-	-	200	100

Reference Method

Total Suspended Particulate : United States Environmental Protection Agency 40 CFR, method 50, Appendix B, revised as of July 1, 2008
Particulate Metter (PM-10) : United States Environmental Protection Agency 40 CFR, method 50, Appendix J, revised as of July 1, 2008

Guideline : Notification of the National Environmental Board., 2026 (B.E.2569) dated January 21, 2026.
Sampled By : Nontachai Uppathamp

Approved by ThanitaK.
Thanita Kulsuriwong
Scientist (4)

Analysis / Test Report

Client : WHA Eastern Industrial Estate Co., Ltd.
18, Pakornsongkrohraj Road, Tambol Huaypong, Amphur Muang, Rayong Thailand
21150
P/O :
Project Name : Monitoring
Project Location : WHA EIE

Lot ID: 2613354
Date Received : Mar 09, 2026
Date Reported : Mar 13, 2026
Report Number: 3526814-1

Sample Description	Air Quality
Location	วัดมาบชลูด(A3) (GPS 47P 0730826, 1407360)
Parameter	Sulfur Dioxide (ppb)
Measurement Date	Mar 01, 2026 - Mar 08, 2026
Measurement by	Nontachai Uppathamp

Time	2613354-15 Mar 01, 2026	2613354-16 Mar 02, 2026	2613354-17 Mar 03, 2026	2613354-18 Mar 04, 2026	2613354-19 Mar 05, 2026	2613354-20 Mar 06, 2026	2613354-21 Mar 07, 2026
10:00 AM - 11:00 AM	4.0	3.9	3.8	3.6	4.1	4.1	4.5
11:00 AM - 12:00 PM	3.9	3.9	3.7	3.6	4.6	4.2	4.6
12:00 PM - 01:00 PM	3.6	3.7	3.7	3.6	4.7	4.2	4.6
01:00 PM - 02:00 PM	3.7	3.9	3.7	3.6	5.0	4.4	5.2
02:00 PM - 03:00 PM	3.6	3.8	3.6	3.6	5.1	4.5	5.6
03:00 PM - 04:00 PM	3.5	3.6	3.5	3.5	4.2	4.5	4.6
04:00 PM - 05:00 PM	3.5	3.6	3.6	3.5	4.3	4.3	3.5
05:00 PM - 06:00 PM	3.4	3.6	3.6	3.4	3.9	4.1	4.4
06:00 PM - 07:00 PM	3.3	3.5	3.4	9.6	3.6	4.0	4.2
07:00 PM - 08:00 PM	3.2	3.4	3.3	7.1	3.6	3.9	4.1
08:00 PM - 09:00 PM	3.2	3.4	3.4	4.9	3.4	3.9	4.2
09:00 PM - 10:00 PM	3.5	3.5	3.2	4.5	3.5	3.6	4.3
10:00 PM - 11:00 PM	3.5	3.6	3.5	4.6	3.6	4.4	4.2
11:00 PM - 12:00 AM	3.6	3.5	3.5	4.5	3.7	4.3	4.8
12:00 AM - 01:00 AM	3.5	3.5	3.2	4.5	3.9	4.1	4.6
01:00 AM - 02:00 AM	3.6	3.6	3.2	4.6	4.1	3.1	4.8
02:00 AM - 03:00 AM	3.6	3.6	3.3	4.4	4.2	3.1	6.1
03:00 AM - 04:00 AM	3.7	3.6	3.3	4.7	4.1	4.6	5.0
04:00 AM - 05:00 AM	3.6	3.6	3.4	4.5	4.0	4.9	3.3
05:00 AM - 06:00 AM	3.6	3.7	3.4	4.7	3.3	5.0	3.2
06:00 AM - 07:00 AM	3.6	3.6	3.4	5.6	4.1	5.3	4.2
07:00 AM - 08:00 AM	3.7	3.8	3.4	5.2	4.2	4.7	4.7
08:00 AM - 09:00 AM	3.7	3.6	3.5	4.4	4.3	4.8	4.6
09:00 AM - 10:00 AM	3.7	3.6	3.4	4.8	4.2	4.7	4.6
Average	3.6	3.6	3.5	4.6	4.1	4.3	4.5
1hr - Maximum	4.0	3.9	3.8	9.6	5.1	5.3	6.1
Standard 1hr - Average	100	100	100	100	100	100	100
Standard 24 hrs - Average	50	50	50	50	50	50	50

Standard : Notification of the National Environment Board B.E. 2569.
Reference Method : U.S. Environmental Protection Agency, EPA Method Part 53 and 58

Approved by Orawan R.
Orawan Rakyong
Scientist (3)

Analysis / Test Report

Client : WHA Eastern Industrial Estate Co., Ltd.
18, Pakornsongkrohraj Road, Tambol Huaypong, Amphur Muang, Rayong Thailand
21150
P/O :
Project Name : Monitoring
Project Location : WHA EIE

Lot ID: 2613354
Date Received : Mar 09, 2026
Date Reported : Mar 13, 2026
Report Number: 3526813-1

Sample Description	Air Quality
Location	วัดหนองแฟบ(A2) (GPS 47P 0729828, 1403318)
Parameter	Sulfur Dioxide (ppb)
Measurement Date	Mar 01, 2026 - Mar 08, 2026
Measurement by	Nontachai Uppathamp

Time	2613354-8 Mar 01, 2026	2613354-9 Mar 02, 2026	2613354-10 Mar 03, 2026	2613354-11 Mar 04, 2026	2613354-12 Mar 05, 2026	2613354-13 Mar 06, 2026	2613354-14 Mar 07, 2026
09:00 AM - 10:00 AM	3.3	2.5	2.3	2.6	2.6	2.0	2.6
10:00 AM - 11:00 AM	3.7	2.4	2.3	2.6	2.6	5.4	2.7
11:00 AM - 12:00 PM	5.5	2.5	2.4	2.6	2.6	7.4	2.6
12:00 PM - 01:00 PM	4.8	2.5	2.4	2.6	2.6	6.5	2.6
01:00 PM - 02:00 PM	3.4	2.4	2.4	2.6	2.6	6.5	2.8
02:00 PM - 03:00 PM	4.8	2.4	2.3	2.6	2.6	5.5	2.7
03:00 PM - 04:00 PM	5.3	2.4	2.4	2.6	2.6	4.9	2.7
04:00 PM - 05:00 PM	5.3	2.4	2.5	2.5	2.6	6.4	2.7
05:00 PM - 06:00 PM	5.1	2.3	2.5	2.5	2.3	4.3	2.6
06:00 PM - 07:00 PM	4.9	2.4	2.5	2.6	2.4	2.3	2.6
07:00 PM - 08:00 PM	5.1	2.4	2.5	2.6	2.4	2.3	2.6
08:00 PM - 09:00 PM	3.2	2.4	2.5	2.6	2.4	2.4	2.6
09:00 PM - 10:00 PM	2.9	2.5	2.5	2.6	2.4	2.4	2.5
10:00 PM - 11:00 PM	2.8	2.4	2.5	2.6	2.4	2.4	2.5
11:00 PM - 12:00 AM	2.7	2.4	2.6	2.6	2.4	2.3	2.5
12:00 AM - 01:00 AM	2.7	2.4	2.5	2.6	3.2	2.4	2.6
01:00 AM - 02:00 AM	2.8	2.5	2.6	2.5	3.6	2.4	2.6
02:00 AM - 03:00 AM	2.7	2.4	2.6	2.6	2.8	2.5	2.6
03:00 AM - 04:00 AM	2.7	2.4	2.6	2.6	2.5	2.5	2.5
04:00 AM - 05:00 AM	2.6	2.4	2.6	2.6	2.3	2.5	2.5
05:00 AM - 06:00 AM	2.6	2.4	2.6	2.6	2.5	2.5	2.5
06:00 AM - 07:00 AM	2.6	2.4	2.5	2.6	2.7	2.5	2.5
07:00 AM - 08:00 AM	2.6	2.4	2.6	2.6	4.2	2.6	2.6
08:00 AM - 09:00 AM	2.6	2.4	2.6	2.6	6.3	2.6	2.6
Average	3.6	2.4	2.5	2.6	2.8	3.6	2.6
1hr - Maximum	5.5	2.5	2.6	2.6	6.3	7.4	2.8
Standard 1hr - Average	100	100	100	100	100	100	100
Standard 24 hrs - Average	50	50	50	50	50	50	50

Standard : Notification of the National Environment Board B.E. 2569.
Reference Method : U.S. Environmental Protection Agency, EPA Method Part 53 and 58

Approved by Orawan R.
Orawan Rakyong
Scientist (3)

Analysis / Test Report

Client : WHA Eastern Industrial Estate Co., Ltd.
18, Pakornsongkrohraj Road, Tambol Huaypong, Amphur Muang, Rayong Thailand
21150
P/O :
Project Name : Monitoring
Project Location : WHA EIE

Lot ID: 2613352
Date Received : Mar 09, 2026
Date Reported : Mar 13, 2026
Report Number: 3526810-1

Sample Description Air Quality
Location วัดหนองแฟบ(A2) (GPS 47P 0729828, 1403318)
Parameter Nitrogen dioxide (ppb)
Measurement Date Mar 01, 2026 - Mar 08, 2026
Measurement by Nontachai Uppathamp

Time	2613352-8 Mar 01, 2026	2613352-9 Mar 02, 2026	2613352-10 Mar 03, 2026	2613352-11 Mar 04, 2026	2613352-12 Mar 05, 2026	2613352-13 Mar 06, 2026	2613352-14 Mar 07, 2026
09:00 AM - 10:00 AM	5.7	16.8	7.8	4.2	6.6	12.1	8.2
10:00 AM - 11:00 AM	7.5	16.5	4.3	3.9	19.5	20.6	10.9
11:00 AM - 12:00 PM	9.3	15.4	3.9	4.0	23.7	21.9	3.2
12:00 PM - 01:00 PM	4.8	10.8	4.1	3.8	23.7	22.6	3.1
01:00 PM - 02:00 PM	6.6	2.8	3.7	3.7	9.7	7.0	5.6
02:00 PM - 03:00 PM	7.9	4.0	3.5	3.6	5.3	5.1	4.6
03:00 PM - 04:00 PM	6.2	4.5	3.6	3.6	4.8	4.1	3.5
04:00 PM - 05:00 PM	7.3	5.0	3.6	3.7	3.9	4.2	3.2
05:00 PM - 06:00 PM	5.0	3.9	6.5	3.9	5.6	3.9	2.6
06:00 PM - 07:00 PM	4.4	4.8	4.4	4.1	4.9	3.2	2.7
07:00 PM - 08:00 PM	7.0	3.8	4.7	3.9	5.1	4.8	6.2
08:00 PM - 09:00 PM	14.9	4.3	5.7	3.6	5.6	6.2	4.6
09:00 PM - 10:00 PM	11.7	4.8	4.8	3.5	4.0	8.3	4.8
10:00 PM - 11:00 PM	9.9	4.7	4.0	3.4	3.5	7.5	5.7
11:00 PM - 12:00 AM	13.3	3.7	3.6	3.4	4.7	5.0	3.4
12:00 AM - 01:00 AM	11.2	3.6	3.6	3.3	4.4	3.8	2.7
01:00 AM - 02:00 AM	14.5	3.8	3.4	3.3	10.6	5.9	3.4
02:00 AM - 03:00 AM	10.4	3.7	3.6	3.3	5.1	4.1	3.4
03:00 AM - 04:00 AM	6.9	4.3	3.5	3.3	9.1	3.2	3.7
04:00 AM - 05:00 AM	6.2	4.9	3.3	3.3	6.4	2.8	4.0
05:00 AM - 06:00 AM	9.4	5.9	3.4	3.2	9.0	2.4	3.7
06:00 AM - 07:00 AM	9.3	13.0	3.7	3.3	11.4	2.8	3.4
07:00 AM - 08:00 AM	8.4	13.8	3.8	4.9	10.0	3.3	4.4
08:00 AM - 09:00 AM	7.5	5.1	5.0	4.2	10.1	5.8	7.0
Average	8.6	6.8	4.2	3.7	8.6	7.1	4.5
1hr - Maximum	14.9	16.8	7.8	4.9	23.7	22.6	10.9
Standard 1hr - Average	120	120	120	120	120	120	120

Standard : Notification of the National Environment Board B.E. 2569.
Reference Method : U.S. Environmental Protection AgencyMethod Part 50 App. F (Chemiluminescence)

Approved by Orawan R.
Orawan Rakyong
Scientist (3)

Analysis / Test Report

Client : WHA Eastern Industrial Estate Co., Ltd.
18, Pakornsongkrohraj Road, Tambol Huaypong, Amphur Muang, Rayong Thailand
21150
P/O :
Project Name : Monitoring
Project Location : WHA EIE

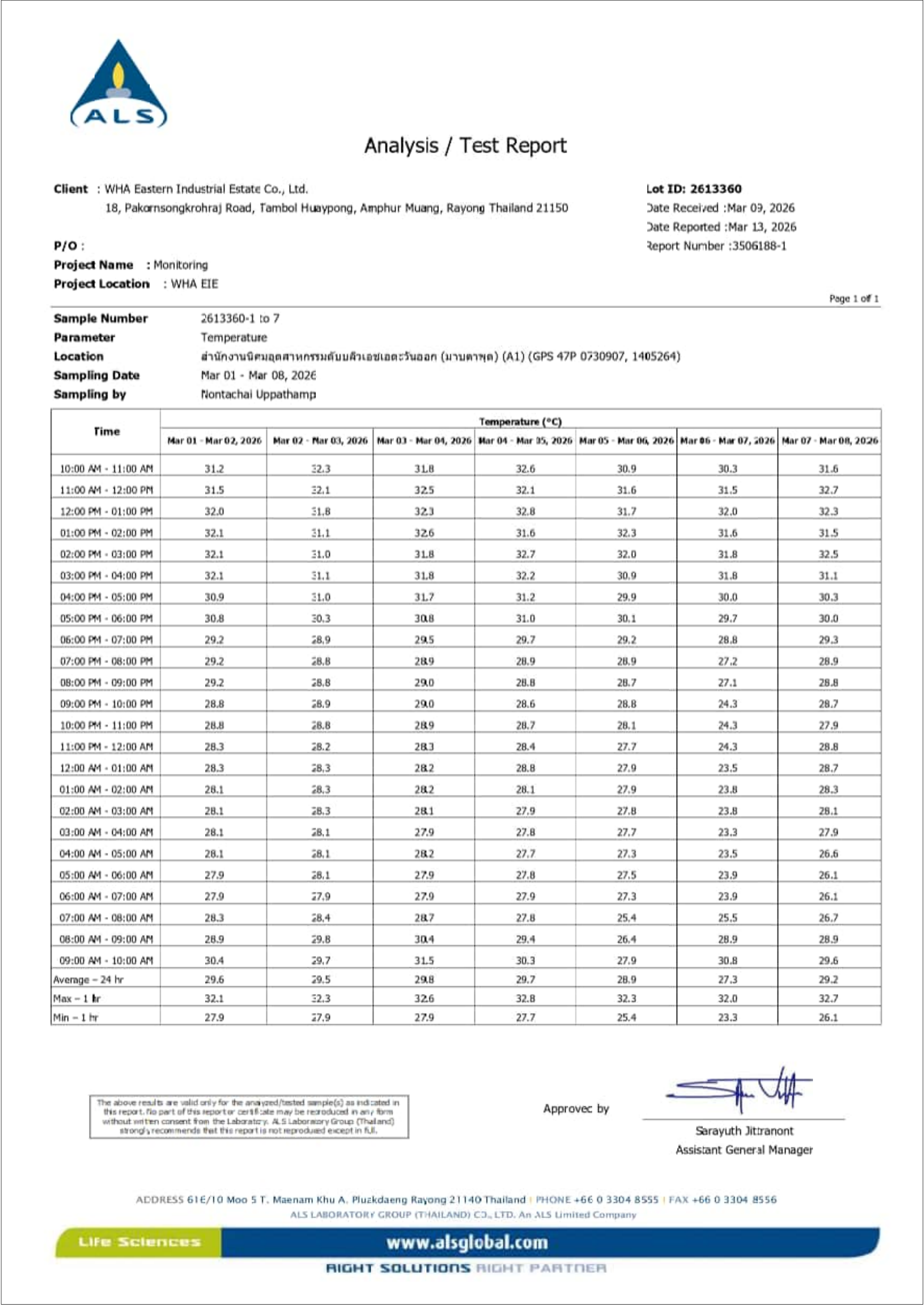
Lot ID: 2613352
Date Received : Mar 09, 2026
Date Reported : Mar 13, 2026
Report Number: 3506176-1

Sample Description Air Quality
Location สำนักงานนิคมอุตสาหกรรมดับบลิวเอชเอตะวันออก(มาบตาพุด)(A1)(GPS 47P 0730907, 1405264)
Parameter Nitrogen dioxide (ppb)
Measurement Date Mar 01, 2026 - Mar 08, 2026
Measurement by Nontachai Uppathamp

Time	2613352-1 Mar 01, 2026	2613352-2 Mar 02, 2026	2613352-3 Mar 03, 2026	2613352-4 Mar 04, 2026	2613352-5 Mar 05, 2026	2613352-6 Mar 06, 2026	2613352-7 Mar 07, 2026
10:00 AM - 11:00 AM	4.6	4.9	5.0	4.1	4.0	3.5	4.5
11:00 AM - 12:00 PM	4.4	5.1	4.3	3.6	4.0	3.4	3.6
12:00 PM - 01:00 PM	3.6	23.1	23.2	3.5	3.3	3.4	3.2
01:00 PM - 02:00 PM	3.2	3.9	4.1	3.4	3.4	3.4	3.3
02:00 PM - 03:00 PM	3.6	3.4	3.7	3.3	3.2	3.2	3.3
03:00 PM - 04:00 PM	3.5	3.5	4.0	3.4	3.4	3.3	3.3
04:00 PM - 05:00 PM	3.4	3.3	3.8	3.3	3.2	3.3	3.3
05:00 PM - 06:00 PM	3.5	3.3	3.8	3.4	3.2	3.2	3.3
06:00 PM - 07:00 PM	3.4	3.3	4.0	3.5	3.5	3.5	3.3
07:00 PM - 08:00 PM	3.3	3.4	3.5	3.3	3.4	3.4	3.2
08:00 PM - 09:00 PM	3.5	3.4	3.4	3.3	3.4	3.6	3.4
09:00 PM - 10:00 PM	4.0	3.4	3.6	3.4	3.3	3.3	3.5
10:00 PM - 11:00 PM	3.6	3.5	4.4	3.5	3.3	3.3	5.3
11:00 PM - 12:00 AM	3.4	3.4	3.9	3.2	3.6	3.4	3.6
12:00 AM - 01:00 AM	3.4	3.4	3.9	3.4	3.3	3.6	3.6
01:00 AM - 02:00 AM	3.5	3.3	3.6	3.1	3.4	3.7	3.5
02:00 AM - 03:00 AM	3.3	3.3	3.7	3.3	3.3	3.4	3.7
03:00 AM - 04:00 AM	3.2	3.4	3.5	3.3	3.2	3.5	3.7
04:00 AM - 05:00 AM	3.1	3.5	3.4	3.2	3.2	3.4	3.8
05:00 AM - 06:00 AM	3.2	3.6	3.1	3.2	3.3	3.5	3.9
06:00 AM - 07:00 AM	3.4	3.4	3.2	3.2	3.3	3.6	4.2
07:00 AM - 08:00 AM	3.4	3.6	3.3	3.2	3.3	4.1	4.0
08:00 AM - 09:00 AM	3.6	4.2	3.8	3.4	3.6	4.5	6.3
09:00 AM - 10:00 AM	4.4	5.5	6.4	9.5	4.9	6.4	6.5
Average	3.6	4.5	4.7	3.6	3.5	3.6	3.9
1hr - Maximum	4.6	23.1	23.2	9.5	4.9	6.4	6.5
Standard 1hr - Average	120	120	120	120	120	120	120

Standard : Notification of the National Environment Board B.E. 2569.
Reference Method : U.S. Environmental Protection AgencyMethod Part 50 App. F (Chemiluminescence)

Approved by Orawan R.
Orawan Rakyong
Scientist (3)



Analysis / Test Report

Client : WHA Eastern Industrial Estate Co., Ltd.
18, Pakornsongkrohraj Road, Tambol Huaypong, Amphur Muang, Rayong Thailand 21150

Lot ID: 2613360
Date Received :Mar 09, 2026
Date Reported :Mar 13, 2026
Report Number :3506188-1

P/O :
Project Name : Monitoring
Project Location : WHA EIE

Sample Number 2613360-1 to 7
Parameter Temperature
Location สำนักงานนิคมอุตสาหกรรมดับบลิวเอชเอตะวันออก (มาบตาพุด) (A1) (GPS 47P 0730907, 1405264)
Sampling Date Mar 01 - Mar 08, 2026
Sampling by Nontachai Uppathamp

Time	**Temperature (°C)**						
	Mar 01 - Mar 02, 2026	**Mar 02 - Mar 03, 2026**	**Mar 03 - Mar 04, 2026**	**Mar 04 - Mar 05, 2026**	**Mar 05 - Mar 06, 2026**	**Mar 06 - Mar 07, 2026**	**Mar 07 - Mar 08, 2026**
10:00 AM - 11:00 AM	31.2	32.3	31.8	32.6	30.9	30.3	31.6
11:00 AM - 12:00 PM	31.5	32.1	32.5	32.1	31.6	31.5	32.7
12:00 PM - 01:00 PM	32.0	31.8	32.3	32.8	31.7	32.0	32.3
01:00 PM - 02:00 PM	32.1	31.1	32.6	31.6	32.3	31.6	31.5
02:00 PM - 03:00 PM	32.1	31.0	31.8	32.7	32.0	31.8	32.5
03:00 PM - 04:00 PM	32.1	31.1	31.8	32.2	30.9	31.8	31.1
04:00 PM - 05:00 PM	30.9	31.0	31.7	31.2	29.9	30.0	30.3
05:00 PM - 06:00 PM	30.8	30.3	30.8	31.0	30.1	29.7	30.0
06:00 PM - 07:00 PM	29.2	28.9	29.5	29.7	29.2	28.8	29.3
07:00 PM - 08:00 PM	29.2	28.8	28.9	28.9	28.9	27.2	28.9
08:00 PM - 09:00 PM	29.2	28.8	29.0	28.8	28.7	27.1	28.8
09:00 PM - 10:00 PM	28.8	28.9	29.0	28.6	28.8	24.3	28.7
10:00 PM - 11:00 PM	28.8	28.8	28.9	28.7	28.1	24.3	27.9
11:00 PM - 12:00 AM	28.3	28.2	28.3	28.4	27.7	24.3	28.8
12:00 AM - 01:00 AM	28.3	28.3	28.2	28.8	27.9	23.5	28.7
01:00 AM - 02:00 AM	28.1	28.3	28.2	28.1	27.9	23.8	28.3
02:00 AM - 03:00 AM	28.1	28.3	28.1	27.9	27.8	23.8	28.1
03:00 AM - 04:00 AM	28.1	28.1	27.9	27.8	27.7	23.3	27.9
04:00 AM - 05:00 AM	28.1	28.1	28.2	27.7	27.3	23.5	26.6
05:00 AM - 06:00 AM	27.9	28.1	27.9	27.8	27.5	23.9	26.1
06:00 AM - 07:00 AM	27.9	27.9	27.9	27.9	27.3	23.9	26.1
07:00 AM - 08:00 AM	28.3	28.4	28.7	27.8	25.4	25.5	26.7
08:00 AM - 09:00 AM	28.9	29.8	30.4	29.4	26.4	28.9	28.9
09:00 AM - 10:00 AM	30.4	29.7	31.5	30.3	27.9	30.8	29.6
Average – 24 hr	29.6	29.5	29.8	29.7	28.9	27.3	29.2
Max – 1 hr	32.1	32.3	32.6	32.8	32.3	32.0	32.7
Min – 1 hr	27.9	27.9	27.9	27.7	25.4	23.3	26.1

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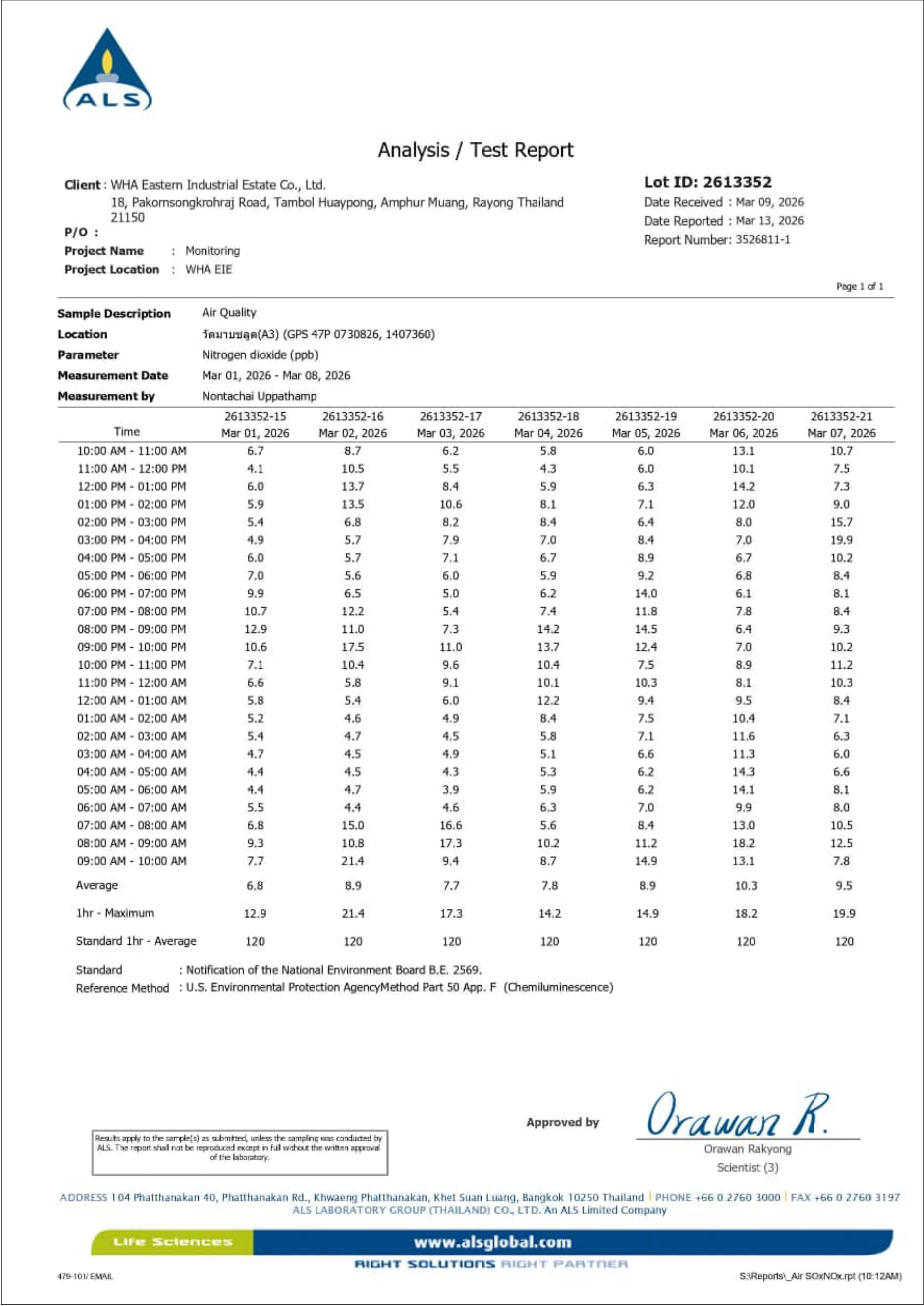
Approvec by

Sarayuth Jittranont
Assistant General Manager



Analysis / Test Report

Client : WHA Eastern Industrial Estate Co., Ltd.
18, Pakornsongkrohraj Road, Tambol Huaypong, Amphur Muang, Rayong Thailand 21150

Lot ID: 2613352
Date Received : Mar 09, 2026
Date Reported : Mar 13, 2026
Report Number: 3526811-1

P/O :
Project Name : Monitoring
Project Location : WHA EIE

Sample Description Air Quality
Location วัดมาบชลูด(A3) (GPS 47P 0730826, 1407360)
Parameter Nitrogen dioxide (ppb)
Measurement Date Mar 01, 2026 - Mar 08, 2026
Measurement by Nontachai Uppathamp

Time	2613352-15 Mar 01, 2026	2613352-16 Mar 02, 2026	2613352-17 Mar 03, 2026	2613352-18 Mar 04, 2026	2613352-19 Mar 05, 2026	2613352-20 Mar 06, 2026	2613352-21 Mar 07, 2026
10:00 AM - 11:00 AM	6.7	8.7	6.2	5.8	6.0	13.1	10.7
11:00 AM - 12:00 PM	4.1	10.5	5.5	4.3	6.0	10.1	7.5
12:00 PM - 01:00 PM	6.0	13.7	8.4	5.9	6.3	14.2	7.3
01:00 PM - 02:00 PM	5.9	13.5	10.6	8.1	7.1	12.0	9.0
02:00 PM - 03:00 PM	5.4	6.8	8.2	8.4	6.4	8.0	15.7
03:00 PM - 04:00 PM	4.9	5.7	7.9	7.0	8.4	7.0	19.9
04:00 PM - 05:00 PM	6.0	5.7	7.1	6.7	8.9	6.7	10.2
05:00 PM - 06:00 PM	7.0	5.6	6.0	5.9	9.2	6.8	8.4
06:00 PM - 07:00 PM	9.9	6.5	5.0	6.2	14.0	6.1	8.1
07:00 PM - 08:00 PM	10.7	12.2	5.4	7.4	11.8	7.8	8.4
08:00 PM - 09:00 PM	12.9	11.0	7.3	14.2	14.5	6.4	9.3
09:00 PM - 10:00 PM	10.6	17.5	11.0	13.7	12.4	7.0	10.2
10:00 PM - 11:00 PM	7.1	10.4	9.6	10.4	7.5	8.9	11.2
11:00 PM - 12:00 AM	6.6	5.8	9.1	10.1	10.3	8.1	10.3
12:00 AM - 01:00 AM	5.8	5.4	6.0	12.2	9.4	9.5	8.4
01:00 AM - 02:00 AM	5.2	4.6	4.9	8.4	7.5	10.4	7.1
02:00 AM - 03:00 AM	5.4	4.7	4.5	5.8	7.1	11.6	6.3
03:00 AM - 04:00 AM	4.7	4.5	4.9	5.1	6.6	11.3	6.0
04:00 AM - 05:00 AM	4.4	4.5	4.3	5.3	6.2	14.3	6.6
05:00 AM - 06:00 AM	4.4	4.7	3.9	5.9	6.2	14.1	8.1
06:00 AM - 07:00 AM	5.5	4.4	4.6	6.3	7.0	9.9	8.0
07:00 AM - 08:00 AM	6.8	15.0	16.6	5.6	8.4	13.0	10.5
08:00 AM - 09:00 AM	9.3	10.8	17.3	10.2	11.2	18.2	12.5
09:00 AM - 10:00 AM	7.7	21.4	9.4	8.7	14.9	13.1	7.8
Average	6.8	8.9	7.7	7.8	8.9	10.3	9.5
1hr - Maximum	12.9	21.4	17.3	14.2	14.9	18.2	19.9
Standard 1hr - Average	120	120	120	120	120	120	120

Standard : Notification of the National Environment Board B.E. 2569.
Reference Method : U.S. Environmental Protection AgencyMethod Part 50 App. F (Chemiluminescence)

Approved by Orawan R.

Orawan Rakyong
Scientist (3)

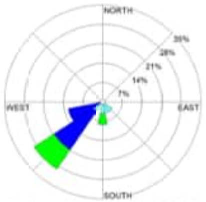
Analysis / Test Report

Client : WHA Eastern Industrial Estate Co., Ltd.
18, Pakornsongkrohraj Road, Tambol Huaypong, Amphur Muang, Rayong Thailand 21150

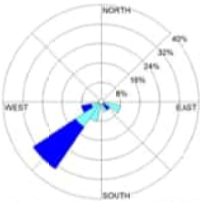
P/O :
Project Name : Monitoring
Project Location : WHA EIE

Lot ID: 2613363
Date Received :Mar 09, 2026
Date Reported :Mar 13, 2026
Report Number :3506189-1

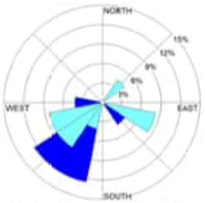
Wind Rose



Date : Mar 01-02, 2026



Date : Mar 02-03, 2026



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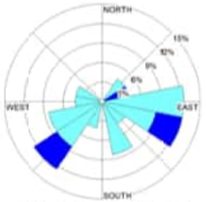
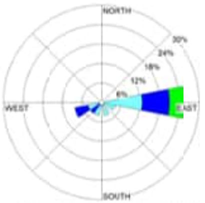
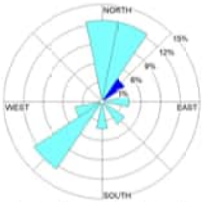


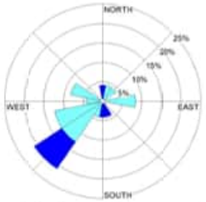
Date : Mar 04-05, 2026



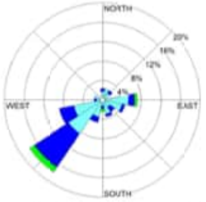
Date : Mar 05-06, 2026



Date : Mar 06-07, 2026



Date : Mar 07-08, 2026



Date : Mar 01-08, 2026

WS (m/s)		%
🟥	≥ 10.0	0.00
🟧	8.0-10.0	0.00
🟨	5.5-8.0	0.00
🟩	3.3-5.5	2.38
🟦	1.7-3.3	19.05
▨	0.3-1.7	42.26
	Calms	36.31

Location : สำนักงานนิคมอุตสาหกรรมดับบลิวเอชเอตะวันออก (มาบตาพุด) (A1) (GPS 47P 0730907, 1405264)

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

Approved by

Sarayuth Jittranont
Assistant General Manager

Analysis / Test Report

Client : WHA Eastern Industrial Estate Co., Ltd.
18, Pakornsongkrohraj Road, Tambol Huaypong, Amphur Muang, Rayong Thailand 21150

P/O :
Project Name : Monitoring
Project Location : WHA EIE

Lot ID: 2613363
Date Received :Mar 09, 2026
Date Reported :Mar 13, 2026
Report Number :3506189-1

Sample Number	2613363-1 to 7
Parameter	Wind Speed / Wind Direction
Location	สำนักงานนิคมอุตสาหกรรมดับบลิวเอชเอตะวันออก (มาบตาพุด) (A1) (GPS 47P 0730907, 1405264)
Sampling Date	Mar 01 - Mar 08, 2026
Sampling by	Nontachai Uppathamp

Time	Mar 01 - Mar 02, 2026			Mar 02 - Mar 03, 2026			Mar 03 - Mar 04, 2026			Mar 04 - Mar 05, 2026			Mar 05 - Mar 06, 2026			Mar 06 - Mar 07, 2026			Mar 07 - Mar 08, 2026		
	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	2.3	228.0	SW	0.5	110.0	ESE	2.2	130.0	SE	1.8	221.0	SW	1.0	213.0	SSW	0.1	-	-	2.7	6.0	N
11:00 AM - 12:00 PM	0.7	147.0	SSE	0.1	-	-	0.6	110.0	ESE	1.2	121.0	ESE	0.0	-	-	0.0	-	-	0.4	34.0	NE
12:00 PM - 01:00 PM	2.2	220.0	SW	0.0	-	-	0.0	-	-	0.5	55.0	NE	0.0	-	-	0.7	142.0	SE	0.8	81.0	E
01:00 PM - 02:00 PM	4.4	225.0	SW	1.8	239.0	WSW	2.4	202.0	SSW	1.8	78.0	ENE	1.2	238.0	WSW	1.6	223.0	SW	2.6	152.0	SSE
02:00 PM - 03:00 PM	0.0	-	-	0.5	157.0	SSE	2.4	213.0	SSW	0.0	-	-	2.9	237.0	WSW	0.9	216.0	SW	3.0	187.0	S
03:00 PM - 04:00 PM	3.3	233.0	SW	1.3	213.0	SSW	0.0	-	-	1.3	168.0	SSE	0.6	160.0	SSE	0.1	-	-	2.2	226.0	SW
04:00 PM - 05:00 PM	0.1	-	-	0.6	212.0	SSW	0.5	247.0	WSW	0.2	-	-	2.2	225.0	SW	1.4	224.0	SW	2.6	217.0	SW
05:00 PM - 06:00 PM	3.4	174.0	S	2.4	133.0	SE	0.2	-	-	2.0	123.0	ESE	0.9	90.0	E	0.6	240.0	WSW	1.3	251.0	WSW
06:00 PM - 07:00 PM	0.0	-	-	0.2	-	-	0.0	-	-	0.0	-	-	0.2	-	-	0.9	180.0	S	1.1	213.0	SSW
07:00 PM - 08:00 PM	0.8	187.0	S	0.4	104.0	ESE	0.2	-	-	1.4	101.0	E	1.1	82.0	E	1.0	31.0	NNE	1.2	289.0	WNW
08:00 PM - 09:00 PM	0.6	133.0	SE	0.0	-	-	0.3	123.0	ESE	1.1	105.0	ESE	1.7	91.0	E	0.0	-	-	0.4	238.0	WSW
09:00 PM - 10:00 PM	0.0	-	-	0.3	223.0	SW	0.0	-	-	1.1	145.0	SE	3.8	95.0	E	0.8	14.0	NNE	0.3	232.0	SW
10:00 PM - 11:00 PM	0.0	-	-	0.0	-	-	0.3	49.0	NE	0.7	92.0	E	0.0	-	-	1.5	100.0	E	1.0	20.0	NNE
11:00 PM - 12:00 AM	0.0	-	-	2.1	224.0	SW	0.0	-	-	0.3	81.0	E	0.0	-	-	0.0	-	-	0.0	-	-
12:00 AM - 01:00 AM	0.2	-	-	2.4	220.0	SW	1.1	234.0	SW	1.2	154.0	SSE	1.2	116.0	ESE	0.0	-	-	1.0	97.0	E
01:00 AM - 02:00 AM	0.0	-	-	0.0	-	-	1.9	274.0	W	0.3	231.0	SW	2.0	83.0	E	0.3	354.0	N	0.3	231.0	SW
02:00 AM - 03:00 AM	2.4	249.0	WSW	0.0	-	-	3.2	219.0	SW	0.0	-	-	0.2	-	-	0.9	15.0	NNE	0.0	-	-
03:00 AM - 04:00 AM	3.1	243.0	WSW	1.8	231.0	SW	1.4	217.0	SW	1.2	300.0	WNW	0.0	-	-	1.0	0.0	N	1.4	243.0	WSW
04:00 AM - 05:00 AM	3.0	257.0	WSW	1.3	217.0	SW	1.3	240.0	WSW	1.3	241.0	WSW	0.6	98.0	E	0.0	-	-	0.5	229.0	SW
05:00 AM - 06:00 AM	2.5	233.0	SW	0.4	241.0	WSW	0.0	-	-	1.2	230.0	SW	0.0	-	-	0.2	-	-	0.0	-	-
06:00 AM - 07:00 AM	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-
07:00 AM - 08:00 AM	0.0	-	-	0.3	220.0	SW	0.5	211.0	SSW	0.9	273.0	W	0.0	-	-	0.0	-	-	0.0	-	-
08:00 AM - 09:00 AM	0.9	234.0	SW	2.2	235.0	SW	0.0	-	-	0.5	253.0	WSW	0.0	-	-	0.8	0.0	N	1.3	282.0	WNW
09:00 AM - 10:00 AM	1.9	227.0	SW	1.8	231.0	SW	0.0	-	-	1.2	211.0	SSW	0.0	-	-	1.8	54.0	NE	1.2	265.0	W

Reference Method : Cup Anemometer & Anodized Aluminium Vane Method

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

Approved by

Sarayuth Jittranont
Assistant General Manager

Analysis / Test Report

Client : WHA Eastern Industrial Estate Co., Ltd.
18, Pakornsongkrohraj Road, Tambol Huaypong, Amphur Muang, Rayong Thailand
21150
P/O :
Project Name : Monitoring
Project Location : WHA EIE

Lot ID: 265088
Date Received : Jan 20, 2026
Date Reported : Jan 30, 2026
Report Number : 3490024-1

Sample Number	265088-1
Sampled Date	Jan 19, 2026
Sample Description	Air Quality
Location	สำนักงานนิคมอุตสาหกรรมดับบลิวเอชเอตะวันออก(มาบตาพุด)(A1)GPS 47P 0730907, 1405264)
Date Analysis Commenced	Jan 21, 2026
Condition of Sample	Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
1,1,1-Trichloroethane	19/01/26 - 20/01/26	ug/m3	0.90	2.73	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
1,1,2,2-Tetrachloroethane	19/01/26 - 20/01/26	ug/m3	0.10	0.34	Not Detected	83	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong
1,1,2-Trichloro-1,2,2-Trifluoroethane	19/01/26 - 20/01/26	ug/m3	1.00	3.83	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
1,1,2-Trichloroethane	19/01/26 - 20/01/26	ug/m3	0.90	2.73	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
1,1-Dichloroethane	19/01/26 - 20/01/26	ug/m3	0.70	2.02	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
1,1-Dichloroethene	19/01/26 - 20/01/26	ug/m3	0.70	1.98	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
1,2,3-Trimethylbenzene	19/01/26 - 20/01/26	ug/m3	0.80	2.46	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
1,2,4-Trichlorobenzene	19/01/26 - 20/01/26	ug/m3	1.20	3.71	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong

Approved by Chontichak
Chonticha Subongkoch
Scientist (3)

Analysis / Test Report

Client : WHA Eastern Industrial Estate Co., Ltd.
18, Pakornsongkrohraj Road, Tambol Huaypong, Amphur Muang, Rayong Thailand
21150
P/O :
Project Name : Monitoring
Project Location : WHA EIE

Lot ID: 265088
Date Received : Jan 20, 2026
Date Reported : Jan 30, 2026
Report Number : 3490024-1

Sample Number	265088-1
Sampled Date	Jan 19, 2026
Sample Description	Air Quality
Location	สำนักงานนิคมอุตสาหกรรมดับบลิวเอชเอตะวันออก(มาบตาพุด)(A1)GPS 47P 0730907, 1405264)
Date Analysis Commenced	Jan 21, 2026
Condition of Sample	Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
1,2,4-Trimethylbenzene	19/01/26 - 20/01/26	ug/m3	0.80	2.46	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
1,2-Dibromoethane	19/01/26 - 20/01/26	ug/m3	0.10	0.38	Not Detected	370	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong
1,2-Dichlorobenzene	19/01/26 - 20/01/26	ug/m3	0.20	0.60	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
1,2-Dichloroethane	19/01/26 - 20/01/26	ug/m3	0.07	0.20	Not Detected	48	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong
1,2-Dichloropropane	19/01/26 - 20/01/26	ug/m3	0.08	0.23	<0.23	82	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong
1,2-Dichlorotetrafluoroethane	19/01/26 - 20/01/26	ug/m3	1.20	3.50	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
1,3,5-Trimethylbenzene	19/01/26 - 20/01/26	ug/m3	0.80	2.46	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
1,3-Butadiene	19/01/26 - 20/01/26	ug/m3	0.04	0.11	0.27	5.3	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong

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Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
1,3-Dichlorobenzene	19/01/26 - 20/01/26	ug/m3	0.20	0.60	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
1,4-Dichlorobenzene	19/01/26 - 20/01/26	ug/m3	0.20	0.60	Not Detected	1100	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong
1,4-Dioxane	19/01/26 - 20/01/26	ug/m3	0.10	0.36	<0.36	860	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong
1-Butanol	19/01/26 - 20/01/26	ug/m3	0.50	1.52	<1.52	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
1-Propanol	19/01/26 - 20/01/26	ug/m3	0.40	1.23	<1.23	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
2-Hexanone	19/01/26 - 20/01/26	ug/m3	0.70	2.05	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
2-Pentanone	19/01/26 - 20/01/26	ug/m3	0.60	1.76	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
2-Propanol	19/01/26 - 20/01/26	ug/m3	0.40	1.23	1.92	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong

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Date Analysis Commenced	Jan 21, 2026
Condition of Sample	Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
3-Hexanone	19/01/26 - 20/01/26	ug/m3	0.70	2.05	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
3-Pentanone	19/01/26 - 20/01/26	ug/m3	0.60	1.76	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Acetaldehyde	19/01/26 - 20/01/26	ug/m3	0.05	0.18	4.91	860	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong
Acetone	19/01/26 - 20/01/26	ug/m3	0.08	0.24	15.01	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Acetonitrile	19/01/26 - 20/01/26	ug/m3	0.30	0.84	<0.84	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Acrolein	19/01/26 - 20/01/26	ug/m3	0.08	0.23	Not Detected	0.55	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong
Acrylonitrile	19/01/26 - 20/01/26	ug/m3	0.07	0.22	Not Detected	10	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong
Benzene	19/01/26 - 20/01/26	ug/m3	0.05	0.16	1.47	7.6	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong

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Air Testing									
Benzyl Chloride	19/01/26 - 20/01/26	ug/m3	0.17	0.52	Not Detected	12	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong
Bromodichloromethane	19/01/26 - 20/01/26	ug/m3	1.00	3.35	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Bromoform	19/01/26 - 20/01/26	ug/m3	1.00	5.17	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Bromomethane	19/01/26 - 20/01/26	ug/m3	0.06	0.19	0.47	190	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong
Butanal	19/01/26 - 20/01/26	ug/m3	0.49	1.47	<1.47	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Carbon Disulfide	19/01/26 - 20/01/26	ug/m3	0.05	0.16	<0.16	100	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	NEB	Rayong
Carbon Tetrachloride	19/01/26 - 20/01/26	ug/m3	0.10	0.31	0.38	150	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong
Chlorobenzene	19/01/26 - 20/01/26	ug/m3	0.80	2.30	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong

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Air Testing									
Chlorodifluoromethane (HCFC-22)	19/01/26 - 20/01/26	ug/m3	0.60	1.77	<1.77	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Chloroethane	19/01/26 - 20/01/26	ug/m3	0.40	1.32	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Chloroform	19/01/26 - 20/01/26	ug/m3	0.08	0.24	0.29	57	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong
Chloromethane	19/01/26 - 20/01/26	ug/m3	0.30	1.03	1.98	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
cis-1,2-Dichloroethene	19/01/26 - 20/01/26	ug/m3	0.70	1.98	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
cis-1,3-Dichloropropene	19/01/26 - 20/01/26	ug/m3	0.80	2.27	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Cyclohexane	19/01/26 - 20/01/26	ug/m3	0.60	1.72	<1.72	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Cyclopentane	19/01/26 - 20/01/26	ug/m3	0.50	1.43	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong

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Date Analysis Commenced	Jan 21, 2026
Condition of Sample	Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Dichlorodifluoromethane (CFC-112)	19/01/26 - 20/01/26	ug/m3	0.80	2.47	<2.47	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Dichloromethane	19/01/26 - 20/01/26	ug/m3	0.06	0.17	3.89	210	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong
Ethanol	19/01/26 - 20/01/26	ug/m3	0.30	0.94	9.72	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Ethyl Benzene	19/01/26 - 20/01/26	ug/m3	0.70	2.17	<2.17	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Hexanal	19/01/26 - 20/01/26	ug/m3	0.60	2.05	3.36	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Hexane	19/01/26 - 20/01/26	ug/m3	0.60	1.76	2.68	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Isobutene	19/01/26 - 20/01/26	ug/m3	0.40	1.15	2.34	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Isoprene	19/01/26 - 20/01/26	ug/m3	0.50	1.39	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong

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Air Testing									
m,p-Xylene	19/01/26 - 20/01/26	ug/m3	1.50	4.34	<4.34	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Methacrolein	19/01/26 - 20/01/26	ug/m3	0.50	1.43	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Methanol	19/01/26 - 20/01/26	ug/m3	0.20	0.66	7.57	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Methyl Ethyl Ketone	19/01/26 - 20/01/26	ug/m3	0.50	1.47	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Methyl Iodide	19/01/26 - 20/01/26	ug/m3	0.90	2.90	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Methyl Isobutyl Ketone	19/01/26 - 20/01/26	ug/m3	0.70	2.05	6.47	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Methyl tert butyl ether	19/01/26 - 20/01/26	ug/m3	0.60	1.80	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Methyl Vinyl Ketone	19/01/26 - 20/01/26	ug/m3	0.50	1.43	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong

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Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
o-Xylene	19/01/26 - 20/01/26	ug/m3	0.70	2.17	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Pentanal	19/01/26 - 20/01/26	ug/m3	0.50	1.76	<1.76	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Pentane	19/01/26 - 20/01/26	ug/m3	0.50	1.48	<1.48	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Propanal	19/01/26 - 20/01/26	ug/m3	0.50	1.19	<1.19	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Propene (Propylene)	19/01/26 - 20/01/26	ug/m3	0.30	0.86	16.45	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Styrene	19/01/26 - 20/01/26	ug/m3	0.70	2.13	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Tetrachloroethylene	19/01/26 - 20/01/26	ug/m3	0.11	0.34	<0.34	400	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong
Toluene	19/01/26 - 20/01/26	ug/m3	0.60	1.88	18.02	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong

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Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
trans-1,2-Dichloroethene	19/01/26 - 20/01/26	ug/m3	0.70	1.98	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
trans-1,3-Dichloropropene	19/01/26 - 20/01/26	ug/m3	0.80	2.27	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Trichloroethylene	19/01/26 - 20/01/26	ug/m3	0.09	0.27	Not Detected	130	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong
Trichlorofluoromethane (F-11)	19/01/26 - 20/01/26	ug/m3	0.90	2.81	<2.81	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Vinyl Acetate	19/01/26 - 20/01/26	ug/m3	0.60	1.76	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Vinyl Chloride	19/01/26 - 20/01/26	ug/m3	0.04	0.13	<0.13	20	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong

Guideline :
NEB : Notification of National Environment Board, B.E. 2560 (2017)
PCD : Notification of the Pollution Control Department, which was published in the Royal Government Gazette Vol. 126 Special Part 13 D dated January 27, B.E. 2552 (2009).
Sampled By : Sirichock Pongprasom

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

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Report Number : 3490024-1

Sample Number 265088-2
Sampled Date Jan 19, 2026
Sample Description Air Quality
Location วัดหนองแฟบ(A2) (GPS 47P 0729828, 1403318)
Date Analysis Commenced Jan 21, 2026
Condition of Sample Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
1,1,1-Trichloroethane	19/01/26 - 20/01/26	ug/m3	0.90	2.73	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
1,1,2,2-Tetrachloroethane	19/01/26 - 20/01/26	ug/m3	0.10	0.34	Not Detected	83	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong
1,1,2-Trichloro-1,2,2-Trifluoroethane	19/01/26 - 20/01/26	ug/m3	1.00	3.83	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
1,1,2-Trichloroethane	19/01/26 - 20/01/26	ug/m3	0.90	2.73	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
1,1-Dichloroethane	19/01/26 - 20/01/26	ug/m3	0.70	2.02	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
1,1-Dichloroethene	19/01/26 - 20/01/26	ug/m3	0.70	1.98	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
1,2,3-Trimethylbenzene	19/01/26 - 20/01/26	ug/m3	0.80	2.46	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
1,2,4-Trichlorobenzene	19/01/26 - 20/01/26	ug/m3	1.20	3.71	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong

Approved by Chontichak
Chonticha Subongkoch
Scientist (3)

Analysis / Test Report

Client : WHA Eastern Industrial Estate Co., Ltd.
18, Pakornsongkrohraj Road, Tambol Huaypong, Amphur Muang, Rayong Thailand
21150
P/O :
Project Name : Monitoring
Project Location : WHA EIE

Lot ID: 265088
Date Received : Jan 20, 2026
Date Reported : Jan 30, 2026
Report Number : 3490024-1

Sample Number 265088-2
Sampled Date Jan 19, 2026
Sample Description Air Quality
Location วัดหนองแฟบ(A2) (GPS 47P 0729828, 1403318)
Date Analysis Commenced Jan 21, 2026
Condition of Sample Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
1,2,4-Trimethylbenzene	19/01/26 - 20/01/26	ug/m3	0.80	2.46	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
1,2-Dibromoethane	19/01/26 - 20/01/26	ug/m3	0.10	0.38	Not Detected	370	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong
1,2-Dichlorobenzene	19/01/26 - 20/01/26	ug/m3	0.20	0.60	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
1,2-Dichloroethane	19/01/26 - 20/01/26	ug/m3	0.07	0.20	<0.20	48	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong
1,2-Dichloropropane	19/01/26 - 20/01/26	ug/m3	0.08	0.23	<0.23	82	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong
1,2-Dichlorotetrafluoroethane	19/01/26 - 20/01/26	ug/m3	1.20	3.50	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
1,3,5-Trimethylbenzene	19/01/26 - 20/01/26	ug/m3	0.80	2.46	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
1,3-Butadiene	19/01/26 - 20/01/26	ug/m3	0.04	0.11	0.27	5.3	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong

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Sample Description	Air Quality
Location	วัดหนองแฟบ(A2) (GPS 47P 0729828, 1403318)
Date Analysis Commenced	Jan 21, 2026
Condition of Sample	Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
1,3-Dichlorobenzene	19/01/26 - 20/01/26	ug/m3	0.20	0.60	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
1,4-Dichlorobenzene	19/01/26 - 20/01/26	ug/m3	0.20	0.60	Not Detected	1100	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong
1,4-Dioxane	19/01/26 - 20/01/26	ug/m3	0.10	0.36	Not Detected	860	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong
1-Butanol	19/01/26 - 20/01/26	ug/m3	0.50	1.52	<1.52	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
1-Propanol	19/01/26 - 20/01/26	ug/m3	0.40	1.23	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
2-Hexanone	19/01/26 - 20/01/26	ug/m3	0.70	2.05	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
2-Pentanone	19/01/26 - 20/01/26	ug/m3	0.60	1.76	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
2-Propanol	19/01/26 - 20/01/26	ug/m3	0.40	1.23	1.43	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong

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Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
3-Hexanone	19/01/26 - 20/01/26	ug/m3	0.70	2.05	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
3-Pentanone	19/01/26 - 20/01/26	ug/m3	0.60	1.76	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Acetaldehyde	19/01/26 - 20/01/26	ug/m3	0.05	0.18	4.76	860	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong
Acetone	19/01/26 - 20/01/26	ug/m3	0.08	0.24	12.45	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Acetonitrile	19/01/26 - 20/01/26	ug/m3	0.30	0.84	<0.84	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Acrolein	19/01/26 - 20/01/26	ug/m3	0.08	0.23	Not Detected	0.55	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong
Acrylonitrile	19/01/26 - 20/01/26	ug/m3	0.07	0.22	Not Detected	10	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong
Benzene	19/01/26 - 20/01/26	ug/m3	0.05	0.16	1.15	7.6	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong

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Air Testing									
Benzyl Chloride	19/01/26 - 20/01/26	ug/m3	0.17	0.52	Not Detected	12	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong
Bromodichloromethane	19/01/26 - 20/01/26	ug/m3	1.00	3.35	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Bromoform	19/01/26 - 20/01/26	ug/m3	1.00	5.17	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Bromomethane	19/01/26 - 20/01/26	ug/m3	0.06	0.19	0.47	190	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong
Butanal	19/01/26 - 20/01/26	ug/m3	0.49	1.47	<1.47	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Carbon Disulfide	19/01/26 - 20/01/26	ug/m3	0.05	0.16	0.25	100	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	NEB	Rayong
Carbon Tetrachloride	19/01/26 - 20/01/26	ug/m3	0.10	0.31	0.38	150	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong
Chlorobenzene	19/01/26 - 20/01/26	ug/m3	0.80	2.30	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong

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Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Chlorodifluoromethane (HCFC-22)	19/01/26 - 20/01/26	ug/m3	0.60	1.77	<1.77	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Chloroethane	19/01/26 - 20/01/26	ug/m3	0.40	1.32	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Chloroform	19/01/26 - 20/01/26	ug/m3	0.08	0.24	<0.24	57	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong
Chloromethane	19/01/26 - 20/01/26	ug/m3	0.30	1.03	2.02	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
cis-1,2-Dichloroethene	19/01/26 - 20/01/26	ug/m3	0.70	1.98	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
cis-1,3-Dichloropropene	19/01/26 - 20/01/26	ug/m3	0.80	2.27	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Cyclohexane	19/01/26 - 20/01/26	ug/m3	0.60	1.72	<1.72	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Cyclopentane	19/01/26 - 20/01/26	ug/m3	0.50	1.43	<1.43	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong

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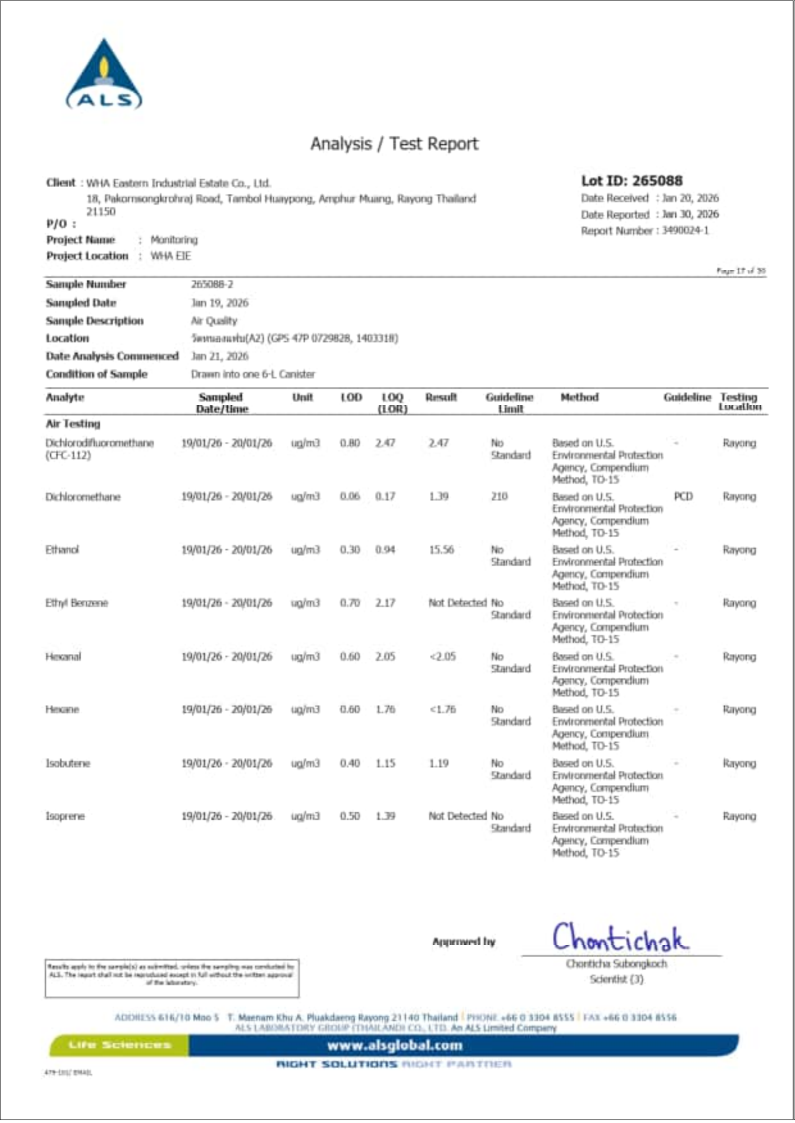

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Condition of Sample Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Dichlorodifluoromethane (CFC-112)	19/01/26 - 20/01/26	ug/m3	0.80	2.47	2.47	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Dichloromethane	19/01/26 - 20/01/26	ug/m3	0.06	0.17	1.39	210	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong
Ethanol	19/01/26 - 20/01/26	ug/m3	0.30	0.94	15.56	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Ethyl Benzene	19/01/26 - 20/01/26	ug/m3	0.70	2.17	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Hexanal	19/01/26 - 20/01/26	ug/m3	0.60	2.05	<2.05	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Hexane	19/01/26 - 20/01/26	ug/m3	0.60	1.76	<1.76	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Isobutene	19/01/26 - 20/01/26	ug/m3	0.40	1.15	1.19	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Isoprene	19/01/26 - 20/01/26	ug/m3	0.50	1.39	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong

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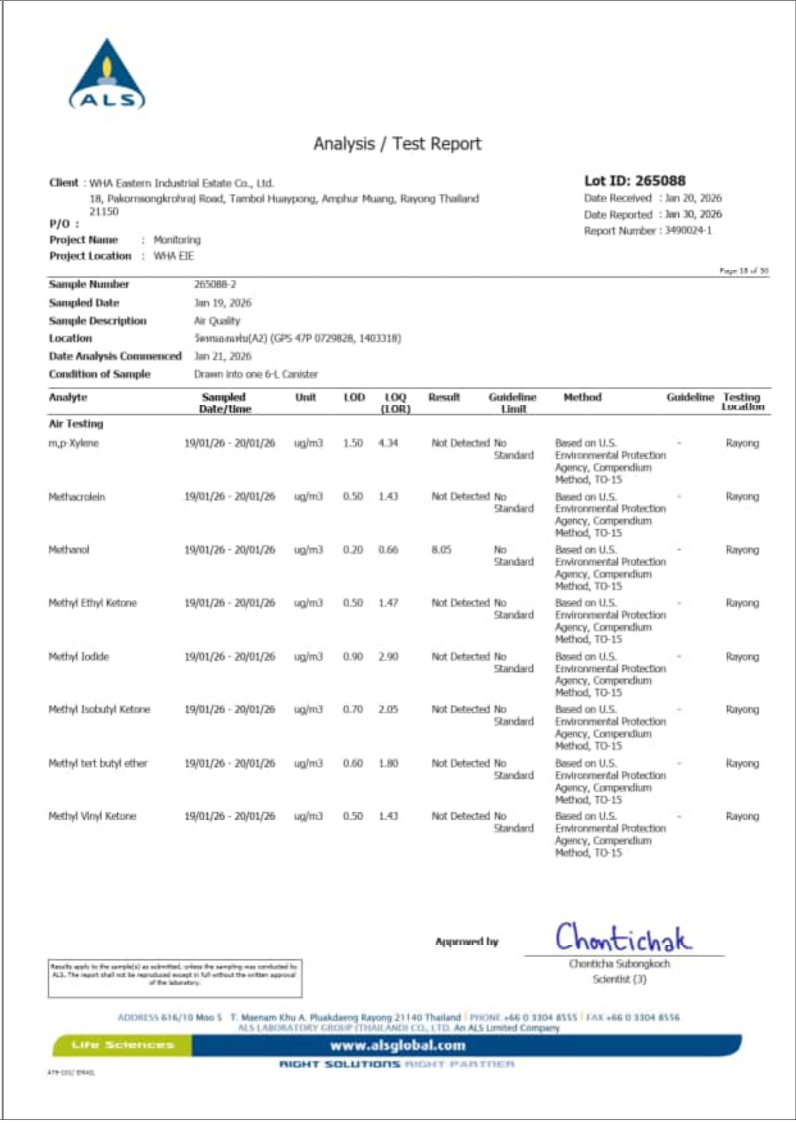

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Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
m,p-Xylene	19/01/26 - 20/01/26	ug/m3	1.50	4.34	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Methacrolein	19/01/26 - 20/01/26	ug/m3	0.50	1.43	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Methanol	19/01/26 - 20/01/26	ug/m3	0.20	0.66	8.05	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Methyl Ethyl Ketone	19/01/26 - 20/01/26	ug/m3	0.50	1.47	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Methyl Iodide	19/01/26 - 20/01/26	ug/m3	0.90	2.90	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Methyl Isobutyl Ketone	19/01/26 - 20/01/26	ug/m3	0.70	2.05	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Methyl tert butyl ether	19/01/26 - 20/01/26	ug/m3	0.60	1.80	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Methyl Vinyl Ketone	19/01/26 - 20/01/26	ug/m3	0.50	1.43	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong

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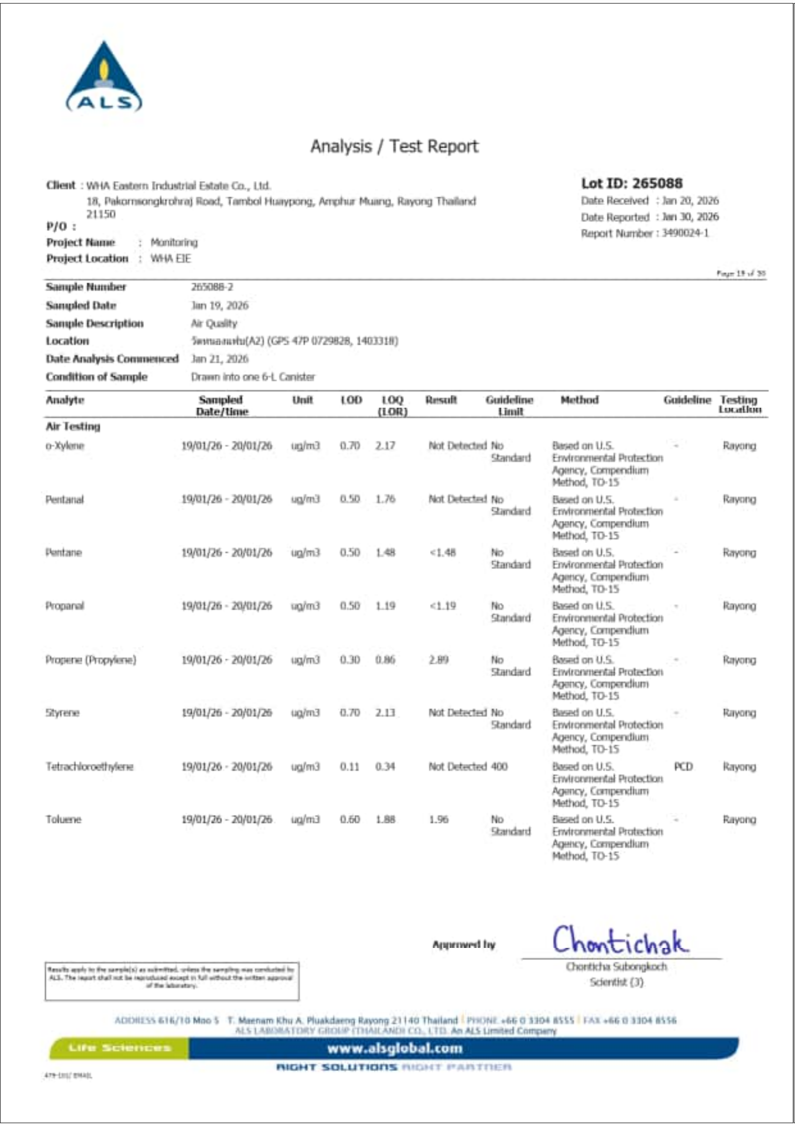

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Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
o-Xylene	19/01/26 - 20/01/26	ug/m3	0.70	2.17	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Pentanal	19/01/26 - 20/01/26	ug/m3	0.50	1.76	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Pentane	19/01/26 - 20/01/26	ug/m3	0.50	1.48	<1.48	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Propanal	19/01/26 - 20/01/26	ug/m3	0.50	1.19	<1.19	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Propene (Propylene)	19/01/26 - 20/01/26	ug/m3	0.30	0.86	2.89	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Styrene	19/01/26 - 20/01/26	ug/m3	0.70	2.13	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Tetrachloroethylene	19/01/26 - 20/01/26	ug/m3	0.11	0.34	Not Detected	400	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong
Toluene	19/01/26 - 20/01/26	ug/m3	0.60	1.88	1.96	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong

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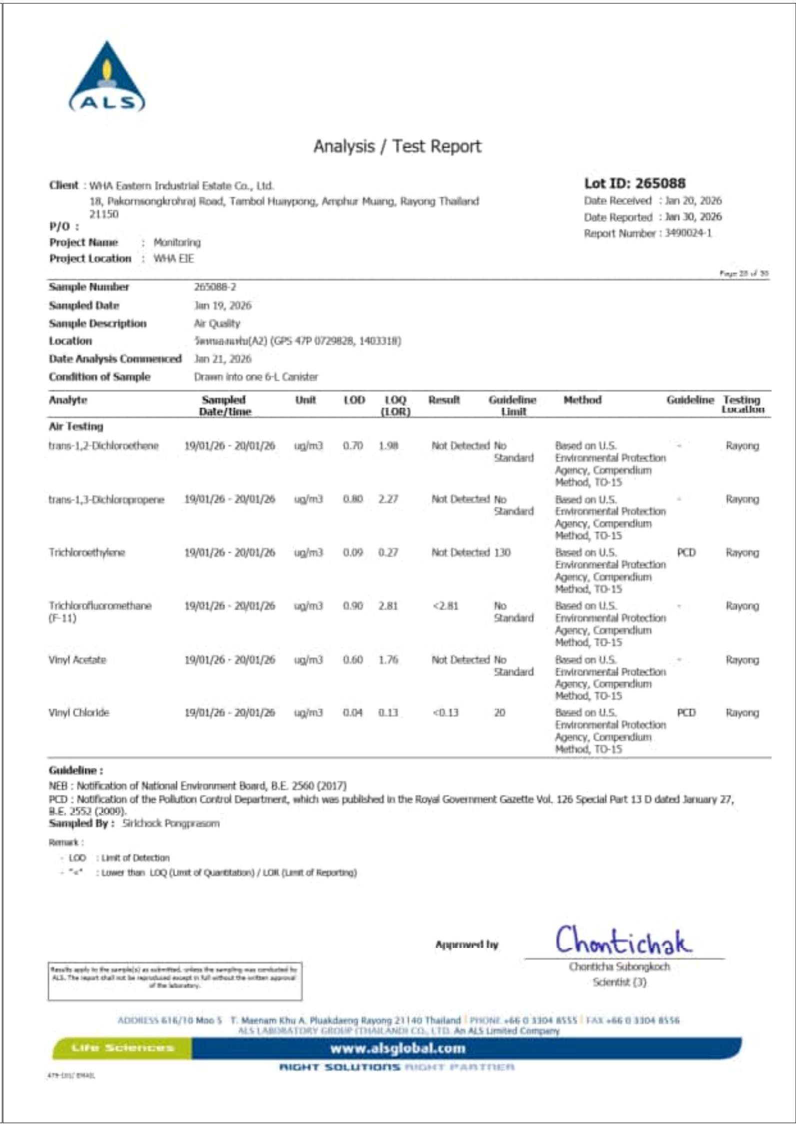

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Air Testing									
trans-1,2-Dichloroethene	19/01/26 - 20/01/26	ug/m3	0.70	1.98	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
trans-1,3-Dichloropropene	19/01/26 - 20/01/26	ug/m3	0.80	2.27	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Trichloroethylene	19/01/26 - 20/01/26	ug/m3	0.09	0.27	Not Detected	130	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong
Trichlorofluoromethane (F-11)	19/01/26 - 20/01/26	ug/m3	0.90	2.81	<2.81	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Vinyl Acetate	19/01/26 - 20/01/26	ug/m3	0.60	1.76	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Vinyl Chloride	19/01/26 - 20/01/26	ug/m3	0.04	0.13	<0.13	20	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong

Guideline :
NEB : Notification of National Environment Board, B.E. 2560 (2017)
PCD : Notification of the Pollution Control Department, which was published in the Royal Government Gazette Vol. 126 Special Part 13 D dated January 27, B.E. 2552 (2009).
Sampled By : Sirichock Pongprasom

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

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Project Name : Monitoring
Project Location : WHA EIE

Lot ID: 265088
Date Received : Jan 20, 2026
Date Reported : Jan 30, 2026
Report Number : 3490024-1

Sample Number	265088-3
Sampled Date	Jan 19, 2026
Sample Description	Air Quality
Location	วัดมาบชลูด(A3) (GPS 47P 0730826, 1407360)
Date Analysis Commenced	Jan 21, 2026
Condition of Sample	Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
1,1,1-Trichloroethane	19/01/26 - 20/01/26	ug/m3	0.90	2.73	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
1,1,2,2-Tetrachloroethane	19/01/26 - 20/01/26	ug/m3	0.10	0.34	Not Detected	83	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong
1,1,2-Trichloro-1,2,2-Trifluoroethane	19/01/26 - 20/01/26	ug/m3	1.00	3.83	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
1,1,2-Trichloroethane	19/01/26 - 20/01/26	ug/m3	0.90	2.73	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
1,1-Dichloroethane	19/01/26 - 20/01/26	ug/m3	0.70	2.02	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
1,1-Dichloroethene	19/01/26 - 20/01/26	ug/m3	0.70	1.98	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
1,2,3-Trimethylbenzene	19/01/26 - 20/01/26	ug/m3	0.80	2.46	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
1,2,4-Trichlorobenzene	19/01/26 - 20/01/26	ug/m3	1.20	3.71	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong

Approved by Chontichak
Chonticha Subongkoch
Scientist (3)

Analysis / Test Report

Client : WHA Eastern Industrial Estate Co., Ltd.
18, Pakornsongkrohraj Road, Tambol Huaypong, Amphur Muang, Rayong Thailand
21150
P/O :
Project Name : Monitoring
Project Location : WHA EIE

Lot ID: 265088
Date Received : Jan 20, 2026
Date Reported : Jan 30, 2026
Report Number : 3490024-1

Sample Number	265088-3
Sampled Date	Jan 19, 2026
Sample Description	Air Quality
Location	วัดมาบชลูด(A3) (GPS 47P 0730826, 1407360)
Date Analysis Commenced	Jan 21, 2026
Condition of Sample	Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
1,2,4-Trimethylbenzene	19/01/26 - 20/01/26	ug/m3	0.80	2.46	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
1,2-Dibromoethane	19/01/26 - 20/01/26	ug/m3	0.10	0.38	Not Detected	370	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong
1,2-Dichlorobenzene	19/01/26 - 20/01/26	ug/m3	0.20	0.60	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
1,2-Dichloroethane	19/01/26 - 20/01/26	ug/m3	0.07	0.20	<0.20	48	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong
1,2-Dichloropropane	19/01/26 - 20/01/26	ug/m3	0.08	0.23	<0.23	82	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong
1,2-Dichlorotetrafluoroethane	19/01/26 - 20/01/26	ug/m3	1.20	3.50	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
1,3,5-Trimethylbenzene	19/01/26 - 20/01/26	ug/m3	0.80	2.46	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
1,3-Butadiene	19/01/26 - 20/01/26	ug/m3	0.04	0.11	0.31	5.3	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong

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Analysis / Test Report

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21150
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Project Name : Monitoring
Project Location : WHA EIE

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Sample Number	265088-3
Sampled Date	Jan 19, 2026
Sample Description	Air Quality
Location	วัดมาบชลูด(A3) (GPS 47P 0730826, 1407360)
Date Analysis Commenced	Jan 21, 2026
Condition of Sample	Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
1,3-Dichlorobenzene	19/01/26 - 20/01/26	ug/m3	0.20	0.60	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
1,4-Dichlorobenzene	19/01/26 - 20/01/26	ug/m3	0.20	0.60	Not Detected	1100	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong
1,4-Dioxane	19/01/26 - 20/01/26	ug/m3	0.10	0.36	Not Detected	860	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong
1-Butanol	19/01/26 - 20/01/26	ug/m3	0.50	1.52	<1.52	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
1-Propanol	19/01/26 - 20/01/26	ug/m3	0.40	1.23	<1.23	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
2-Hexanone	19/01/26 - 20/01/26	ug/m3	0.70	2.05	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
2-Pentanone	19/01/26 - 20/01/26	ug/m3	0.60	1.76	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
2-Propanol	19/01/26 - 20/01/26	ug/m3	0.40	1.23	2.41	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong

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Analysis / Test Report

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21150
P/O :
Project Name : Monitoring
Project Location : WHA EIE

Lot ID: 265088
Date Received : Jan 20, 2026
Date Reported : Jan 30, 2026
Report Number : 3490024-1

Sample Number	265088-3
Sampled Date	Jan 19, 2026
Sample Description	Air Quality
Location	วัดมาบชลูด(A3) (GPS 47P 0730826, 1407360)
Date Analysis Commenced	Jan 21, 2026
Condition of Sample	Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
3-Hexanone	19/01/26 - 20/01/26	ug/m3	0.70	2.05	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
3-Pentanone	19/01/26 - 20/01/26	ug/m3	0.60	1.76	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Acetaldehyde	19/01/26 - 20/01/26	ug/m3	0.05	0.18	7.40	860	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong
Acetone	19/01/26 - 20/01/26	ug/m3	0.08	0.24	25.13	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Acetonitrile	19/01/26 - 20/01/26	ug/m3	0.30	0.84	<0.84	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Acrolein	19/01/26 - 20/01/26	ug/m3	0.08	0.23	Not Detected	0.55	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong
Acrylonitrile	19/01/26 - 20/01/26	ug/m3	0.07	0.22	Not Detected	10	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong
Benzene	19/01/26 - 20/01/26	ug/m3	0.05	0.16	1.21	7.6	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong

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21150
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Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Benzyl Chloride	19/01/26 - 20/01/26	ug/m3	0.17	0.52	Not Detected	12	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong
Bromodichloromethane	19/01/26 - 20/01/26	ug/m3	1.00	3.35	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Bromoform	19/01/26 - 20/01/26	ug/m3	1.00	5.17	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Bromomethane	19/01/26 - 20/01/26	ug/m3	0.06	0.19	0.62	190	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong
Butanal	19/01/26 - 20/01/26	ug/m3	0.49	1.47	<1.47	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Carbon Disulfide	19/01/26 - 20/01/26	ug/m3	0.05	0.16	<0.16	100	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	NEB	Rayong
Carbon Tetrachloride	19/01/26 - 20/01/26	ug/m3	0.10	0.31	0.50	150	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong
Chlorobenzene	19/01/26 - 20/01/26	ug/m3	0.80	2.30	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong

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Analysis / Test Report

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21150
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Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Chlorodifluoromethane (HCFC-22)	19/01/26 - 20/01/26	ug/m3	0.60	1.77	<1.77	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Chloroethane	19/01/26 - 20/01/26	ug/m3	0.40	1.32	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Chloroform	19/01/26 - 20/01/26	ug/m3	0.08	0.24	0.29	57	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong
Chloromethane	19/01/26 - 20/01/26	ug/m3	0.30	1.03	2.23	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
cis-1,2-Dichloroethene	19/01/26 - 20/01/26	ug/m3	0.70	1.98	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
cis-1,3-Dichloropropene	19/01/26 - 20/01/26	ug/m3	0.80	2.27	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Cyclohexane	19/01/26 - 20/01/26	ug/m3	0.60	1.72	3.24	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Cyclopentane	19/01/26 - 20/01/26	ug/m3	0.50	1.43	<1.43	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong

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21150
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Location	วัดมาบชลูด(A3) (GPS 47P 0730826, 1407360)
Date Analysis Commenced	Jan 21, 2026
Condition of Sample	Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Dichlorodifluoromethane (CFC-112)	19/01/26 - 20/01/26	ug/m3	0.80	2.47	2.47	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Dichloromethane	19/01/26 - 20/01/26	ug/m3	0.06	0.17	2.29	210	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong
Ethanol	19/01/26 - 20/01/26	ug/m3	0.30	0.94	16.02	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Ethyl Benzene	19/01/26 - 20/01/26	ug/m3	0.70	2.17	<2.17	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Hexanal	19/01/26 - 20/01/26	ug/m3	0.60	2.05	<2.05	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Hexane	19/01/26 - 20/01/26	ug/m3	0.60	1.76	3.60	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Isobutene	19/01/26 - 20/01/26	ug/m3	0.40	1.15	1.51	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Isoprene	19/01/26 - 20/01/26	ug/m3	0.50	1.39	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong

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21150
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Date Analysis Commenced	Jan 21, 2026
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Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
m,p-Xylene	19/01/26 - 20/01/26	ug/m3	1.50	4.34	<4.34	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Methacrolein	19/01/26 - 20/01/26	ug/m3	0.50	1.43	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Methanol	19/01/26 - 20/01/26	ug/m3	0.20	0.66	8.62	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Methyl Ethyl Ketone	19/01/26 - 20/01/26	ug/m3	0.50	1.47	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Methyl Iodide	19/01/26 - 20/01/26	ug/m3	0.90	2.90	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Methyl Isobutyl Ketone	19/01/26 - 20/01/26	ug/m3	0.70	2.05	<2.05	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Methyl tert butyl ether	19/01/26 - 20/01/26	ug/m3	0.60	1.80	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Methyl Vinyl Ketone	19/01/26 - 20/01/26	ug/m3	0.50	1.43	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong

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Date Analysis Commenced	Jan 21, 2026
Condition of Sample	Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
o-Xylene	19/01/26 - 20/01/26	ug/m3	0.70	2.17	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Pentanal	19/01/26 - 20/01/26	ug/m3	0.50	1.76	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Pentane	19/01/26 - 20/01/26	ug/m3	0.50	1.48	1.89	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Propanal	19/01/26 - 20/01/26	ug/m3	0.50	1.19	1.43	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Propene (Propylene)	19/01/26 - 20/01/26	ug/m3	0.30	0.86	12.22	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Styrene	19/01/26 - 20/01/26	ug/m3	0.70	2.13	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Tetrachloroethylene	19/01/26 - 20/01/26	ug/m3	0.11	0.34	Not Detected	400	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong
Toluene	19/01/26 - 20/01/26	ug/m3	0.60	1.88	5.65	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong

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Sample Number	265088-3
Sampled Date	Jan 19, 2026
Sample Description	Air Quality
Location	วัดมาบชลูด(A3) (GPS 47P 0730826, 1407360)
Date Analysis Commenced	Jan 21, 2026
Condition of Sample	Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
trans-1,2-Dichloroethene	19/01/26 - 20/01/26	ug/m3	0.70	1.98	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
trans-1,3-Dichloropropene	19/01/26 - 20/01/26	ug/m3	0.80	2.27	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Trichloroethylene	19/01/26 - 20/01/26	ug/m3	0.09	0.27	Not Detected	130	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong
Trichlorofluoromethane (F-11)	19/01/26 - 20/01/26	ug/m3	0.90	2.81	<2.81	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Vinyl Acetate	19/01/26 - 20/01/26	ug/m3	0.60	1.76	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Vinyl Chloride	19/01/26 - 20/01/26	ug/m3	0.04	0.13	<0.13	20	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong

Guideline :
NEB : Notification of National Environment Board, B.E. 2560 (2017)
PCD : Notification of the Pollution Control Department, which was published in the Royal Government Gazette Vol. 126 Special Part 13 D dated January 27, B.E. 2552 (2009).
Sampled By : Sirichock Pongprasom

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

Approved by Chontichak
Chonticha Subongkoch
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Analysis / Test Report

Client : WHA Eastern Industrial Estate Co., Ltd.
18, Pakornsongkrohraj Road, Tambol Huaypong, Amphur Muang, Rayong Thailand 21150
P/O :
Project Name : Monitoring
Project Location : WHA EIE

Lot ID: 265075
Date Received :Jan 20, 2026
Date Reported :Jan 23, 2026
Report Number :3490019-1

Sample Number	265075-1
Parameter	Wind Speed / Wind Direction
Location	สำนักงานนิคมอุตสาหกรรมดับบลิวเอชเอตะวันออก (มาบตาพุด) (A1) (GPS 47P 0730907, 1405264)
Sampling Date	Jan 19 - Jan 20, 2026
Sampling by	Sirichock Pongprasom

Time	Jan 19 - Jan 20, 2026			-			-			-			-			-			-		
	WS (m/s)	WD (deg)		-	-		-	-		-	-		-	-		-	-		-	-	
09:00 AM - 10:00 AM	0.9	310.0	NW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10:00 AM - 11:00 AM	0.6	234.0	SW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11:00 AM - 12:00 PM	1.7	214.0	SW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12:00 PM - 01:00 PM	3.5	222.0	SW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
01:00 PM - 02:00 PM	1.4	247.0	WSW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
02:00 PM - 03:00 PM	1.0	200.0	SSW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
03:00 PM - 04:00 PM	1.7	112.0	ESE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
04:00 PM - 05:00 PM	2.8	151.0	SSE																		
05:00 PM - 06:00 PM	0.6	190.0	S	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
06:00 PM - 07:00 PM	1.5	231.0	SW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
07:00 PM - 08:00 PM	1.5	119.0	ESE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
08:00 PM - 09:00 PM	1.3	225.0	SW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
09:00 PM - 10:00 PM	1.8	85.0	E	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10:00 PM - 11:00 PM	2.1	100.0	E	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11:00 PM - 12:00 AM	0.9	112.0	ESE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12:00 AM - 01:00 AM	0.6	105.0	ESE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
01:00 AM - 02:00 AM	1.6	117.0	ESE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
02:00 AM - 03:00 AM	1.3	227.0	SW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
03:00 AM - 04:00 AM	0.5	290.0	WNW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
04:00 AM - 05:00 AM	0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
05:00 AM - 06:00 AM	0.7	352.0	N	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
06:00 AM - 07:00 AM	2.0	359.0	N	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
07:00 AM - 08:00 AM	1.3	26.0	NNE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
08:00 AM - 09:00 AM	0.6	307.0	NW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Reference Method : Cup Anemometer & Anodized Aluminium Vane Method

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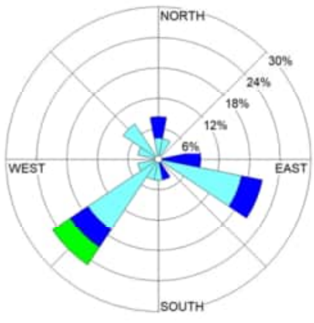
Approved by
Sarayuth Jittranont
Assistant General Manager

Analysis / Test Report

Client : WHA Eastern Industrial Estate Co., Ltd.
18, Pakornsongkrohraj Road, Tambol Huaypong, Amphur Muang, Rayong Thailand 21150
P/O :
Project Name : Monitoring
Project Location : WHA EIE

Lot ID: 265075
Date Received :Jan 20, 2026
Date Reported :Jan 23, 2026
Report Number :3490019-1

Wind Rose



Date : Jan 19-20, 2026

WS (m/s)		%
🟥	≥ 10.0	0.00
🟧	8.0-10.0	0.00
🟨	5.5-8.0	0.00
🟩	3.3-5.5	4.17
🟦	1.7-3.3	25.00
▨	0.3-1.7	66.67
	Calms	4.17

Location : สำนักงานนิคมอุตสาหกรรมดับบลิวเอชเอตะวันออก (มาบตาพุด) (A1) (GPS 47P 0730907, 1405264)

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Sarayuth Jittranont
Assistant General Manager

Analysis / Test Report

Client : WHA Eastern Industrial Estate Co., Ltd.
18, Pakornsongkrohraj Road, Tambol Huaypong, Amphur Muang, Rayong Thailand 21150

Lot ID: 265075
Date Received :Jan 20, 2026
Date Reported :Jan 23, 2026
Report Number :3490019-1

P/O :
Project Name : Monitoring
Project Location : WHA EIE

Sample Number	265075-2
Parameter	Wind Speed / Wind Direction
Location	วัดหนองแฟบ (A2) (GPS 47P 0729828, 1403318)
Sampling Date	Jan 19 - Jan 20, 2026
Sampling by	Sirichock Pongprasom

Time	Jan 19 - Jan 20, 2026			-			-			-			-			-			-			-		
	WS (m/s)	WD (deg)		-	-		-	-		-	-		-	-		-	-		-	-		-	-	
09:00 AM - 10:00 AM	0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10:00 AM - 11:00 AM	0.8	184.0	S	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11:00 AM - 12:00 PM	0.8	319.0	NW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12:00 PM - 01:00 PM	0.6	265.0	W	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
01:00 PM - 02:00 PM	2.1	251.0	WSW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
02:00 PM - 03:00 PM	1.2	283.0	WNW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
03:00 PM - 04:00 PM	2.0	267.0	W	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
04:00 PM - 05:00 PM	1.8	230.0	SW																					
05:00 PM - 06:00 PM	0.6	304.0	NW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
06:00 PM - 07:00 PM	0.6	266.0	W	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
07:00 PM - 08:00 PM	0.8	179.0	S	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
08:00 PM - 09:00 PM	0.8	194.0	SSW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
09:00 PM - 10:00 PM	1.6	175.0	S	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10:00 PM - 11:00 PM	0.5	183.0	S	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11:00 PM - 12:00 AM	0.3	190.0	S	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12:00 AM - 01:00 AM	0.8	247.0	WSW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
01:00 AM - 02:00 AM	1.3	275.0	W	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
02:00 AM - 03:00 AM	1.1	255.0	WSW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
03:00 AM - 04:00 AM	0.6	272.0	W	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
04:00 AM - 05:00 AM	0.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
05:00 AM - 06:00 AM	0.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
06:00 AM - 07:00 AM	1.9	60.0	ENE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
07:00 AM - 08:00 AM	1.8	153.0	SSE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
08:00 AM - 09:00 AM	0.7	350.0	N	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Reference Method : Cup Anemometer & Anodized Aluminum Vane Method

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Approved by

Sarayuth Jittranont
Assistant General Manager

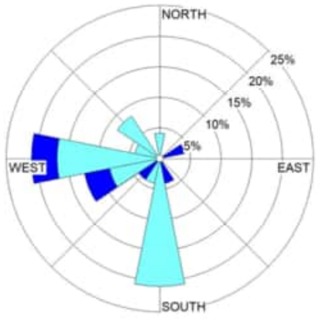
Analysis / Test Report

Client : WHA Eastern Industrial Estate Co., Ltd.
18, Pakornsongkrohraj Road, Tambol Huaypong, Amphur Muang, Rayong Thailand 21150

Lot ID: 265075
Date Received :Jan 20, 2026
Date Reported :Jan 23, 2026
Report Number :3490019-1

P/O :
Project Name : Monitoring
Project Location : WHA EIE

Wind Rose



Date : Jan 19-20, 2026

	WS (m/s)	%
🟥	≥ 10.0	0.00
🟧	8.0-10.0	0.00
🟨	5.5-8.0	0.00
🟩	3.3-5.5	0.00
🟦	1.7-3.3	20.83
▨	0.3-1.7	66.67
	Calms	12.50

Location : วัดหนองแฟบ (A2) (GPS 47P 0729828, 1403318)

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Sarayuth Jittranont
Assistant General Manager

Analysis / Test Report

Client : WHA Eastern Industrial Estate Co., Ltd.
18, Pakornsongkrohraj Road, Tambol Huaypong, Amphur Muang, Rayong Thailand 21150

Lot ID: 265075
Date Received :Jan 20, 2026
Date Reported :Jan 23, 2026
Report Number :3490019-1

P/O :
Project Name : Monitoring
Project Location : WHA EIE

Sample Number	265075-3
Parameter	Wind Speed / Wind Direction
Location	วัดมาบชลูด (A3) (GPS 47P 0730826, 1407360)
Sampling Date	Jan 19 - Jan 20, 2026
Sampling by	Sirichock Pongprasom

Time	Jan 19 - Jan 20, 2026			-			-			-			-			-			-			-		
	WS (m/s)	WD (deg)		-	-		-	-		-	-		-	-		-	-		-	-		-	-	
10:00 AM - 11:00 AM	1.0	213.0	SSW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11:00 AM - 12:00 PM	0.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12:00 PM - 01:00 PM	0.3	211.0	SSW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
01:00 PM - 02:00 PM	0.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
02:00 PM - 03:00 PM	0.6	236.0	SW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
03:00 PM - 04:00 PM	0.8	177.0	S	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
04:00 PM - 05:00 PM	1.4	222.0	SW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
05:00 PM - 06:00 PM	0.2																							
06:00 PM - 07:00 PM	0.6	207.0	SSW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
07:00 PM - 08:00 PM	1.1	210.0	SSW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
08:00 PM - 09:00 PM	1.0	211.0	SSW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
09:00 PM - 10:00 PM	1.7	144.0	SE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10:00 PM - 11:00 PM	1.3	155.0	SSE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11:00 PM - 12:00 AM	0.6	155.0	SSE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12:00 AM - 01:00 AM	0.7	17.0	NNE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
01:00 AM - 02:00 AM	1.4	307.0	NW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
02:00 AM - 03:00 AM	1.2	306.0	NW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
03:00 AM - 04:00 AM	0.5	306.0	NW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
04:00 AM - 05:00 AM	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
05:00 AM - 06:00 AM	0.3	27.0	NNE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
06:00 AM - 07:00 AM	1.9	40.0	NE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
07:00 AM - 08:00 AM	1.5	14.0	NNE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
08:00 AM - 09:00 AM	0.6	12.0	NNE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
09:00 AM - 10:00 AM	1.0	38.0	NE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Reference Method : Cup Anemometer & Anodized Aluminum Vane Method

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Sarayuth Jittranont
Assistant General Manager

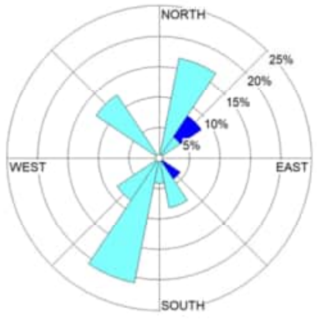
Analysis / Test Report

Client : WHA Eastern Industrial Estate Co., Ltd.
18, Pakornsongkrohraj Road, Tambol Huaypong, Amphur Muang, Rayong Thailand 21150

Lot ID: 265075
Date Received :Jan 20, 2026
Date Reported :Jan 23, 2026
Report Number :3490019-1

P/O :
Project Name : Monitoring
Project Location : WHA EIE

Wind Rose



Date : Jan 19-20, 2026

	WS (m/s)	%
🟥	≥ 10.0	0.00
🟧	8.0-10.0	0.00
🟨	5.5-8.0	0.00
🟩	3.3-5.5	0.00
🟦	1.7-3.3	8.33
▨	0.3-1.7	75.00
	Calms	16.67

Location : วัดมาบชลูด (A3) (GPS 47P 0730826, 1407360)

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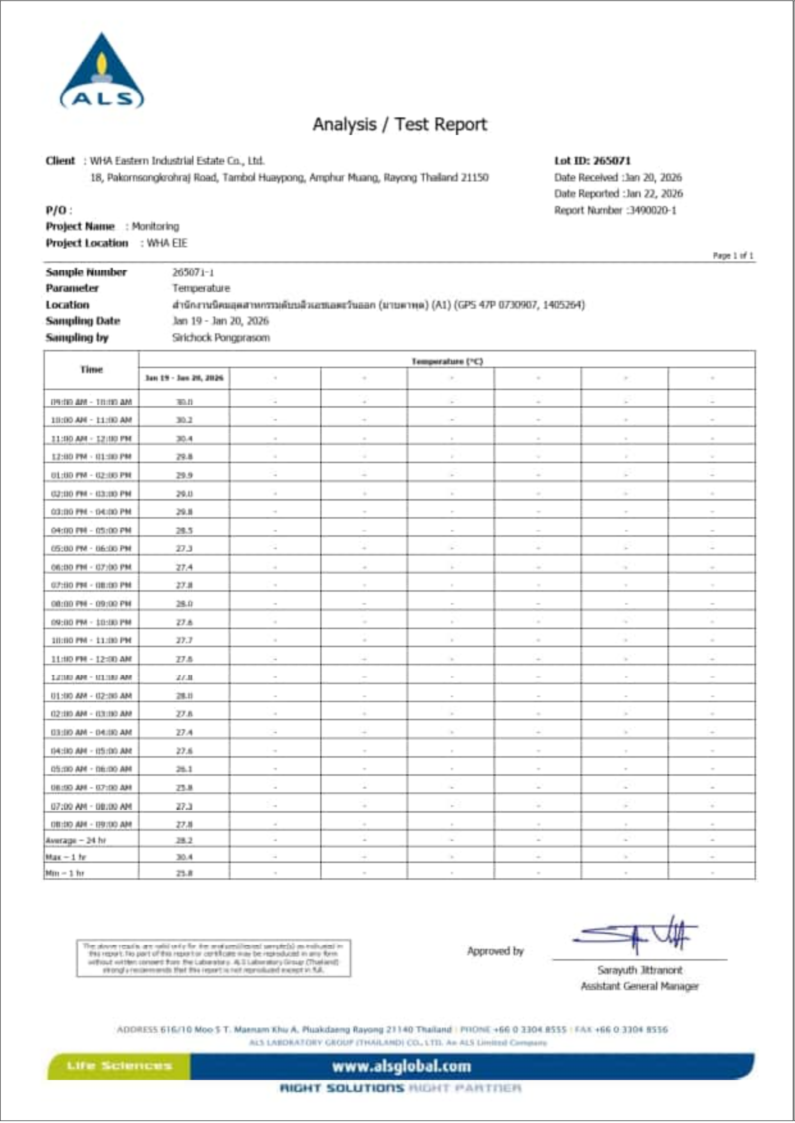
Assistant General Manager



Analysis / Test Report

Client : WHA Eastern Industrial Estate Co., Ltd.
18, Pakornsongkrohraj Road, Tambol Huaypong, Amphur Muang, Rayong Thailand 21150

Lot ID: 265071
Date Received :Jan 20, 2026
Date Reported :Jan 22, 2026
Report Number :3490020-1

P/O :
Project Name : Monitoring
Project Location : WHA EIE

Page 1 of 1

Sample Number 265071-1
Parameter Temperature
Location สำนักงานนิคมอุตสาหกรรมดับบลิวเอชเอตะวันออก (มาบตาพุด) (A1) (GPS 47P 0730907, 1405264)
Sampling Date Jan 19 - Jan 20, 2026
Sampling by Sirichock Pongprasom

Time	Temperature (°C)						
	Jan 19 - Jan 20, 2026	-	-	-	-	-	-
09:00 AM - 10:00 AM	30.0	-	-	-	-	-	-
10:00 AM - 11:00 AM	30.2	-	-	-	-	-	-
11:00 AM - 12:00 PM	30.4	-	-	-	-	-	-
12:00 PM - 01:00 PM	29.8	-	-	-	-	-	-
01:00 PM - 02:00 PM	29.9	-	-	-	-	-	-
02:00 PM - 03:00 PM	29.0	-	-	-	-	-	-
03:00 PM - 04:00 PM	29.8	-	-	-	-	-	-
04:00 PM - 05:00 PM	28.5	-	-	-	-	-	-
05:00 PM - 06:00 PM	27.3	-	-	-	-	-	-
06:00 PM - 07:00 PM	27.4	-	-	-	-	-	-
07:00 PM - 08:00 PM	27.8	-	-	-	-	-	-
08:00 PM - 09:00 PM	28.0	-	-	-	-	-	-
09:00 PM - 10:00 PM	27.6	-	-	-	-	-	-
10:00 PM - 11:00 PM	27.7	-	-	-	-	-	-
11:00 PM - 12:00 AM	27.6	-	-	-	-	-	-
12:00 AM - 01:00 AM	27.8	-	-	-	-	-	-
01:00 AM - 02:00 AM	28.0	-	-	-	-	-	-
02:00 AM - 03:00 AM	27.6	-	-	-	-	-	-
03:00 AM - 04:00 AM	27.4	-	-	-	-	-	-
04:00 AM - 05:00 AM	27.6	-	-	-	-	-	-
05:00 AM - 06:00 AM	26.1	-	-	-	-	-	-
06:00 AM - 07:00 AM	25.8	-	-	-	-	-	-
07:00 AM - 08:00 AM	27.3	-	-	-	-	-	-
08:00 AM - 09:00 AM	27.8	-	-	-	-	-	-
Average – 24 hr	28.2	-	-	-	-	-	-
Max – 1 hr	30.4	-	-	-	-	-	-
Min – 1 hr	25.8	-	-	-	-	-	-

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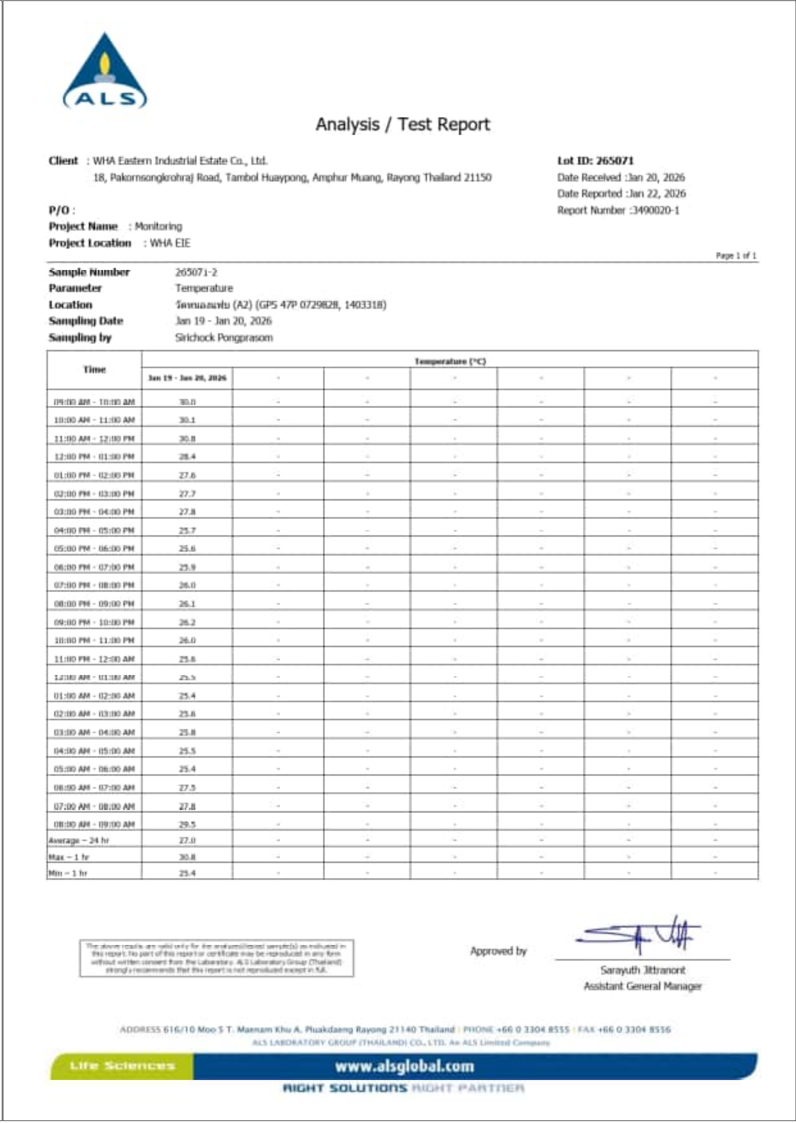


Analysis / Test Report

Client : WHA Eastern Industrial Estate Co., Ltd.
18, Pakornsongkrohraj Road, Tambol Huaypong, Amphur Muang, Rayong Thailand 21150

Lot ID: 265071
Date Received :Jan 20, 2026
Date Reported :Jan 22, 2026
Report Number :3490020-1

P/O :
Project Name : Monitoring
Project Location : WHA EIE

Page 1 of 1

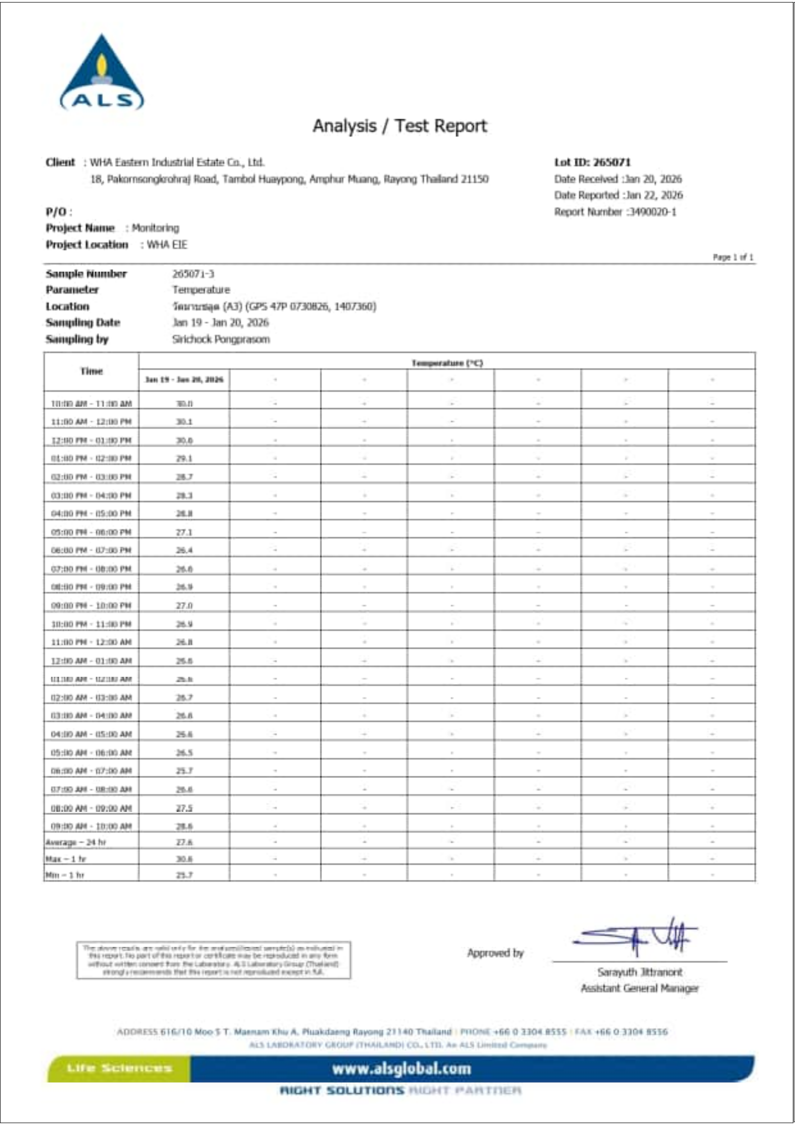
Sample Number 265071-2
Parameter Temperature
Location วัดหนองแฟบ (A2) (GPS 47P 0729828, 1403318)
Sampling Date Jan 19 - Jan 20, 2026
Sampling by Sirichock Pongprasom

Time	Temperature (°C)						
	Jan 19 - Jan 20, 2026	-	-	-	-	-	-
09:00 AM - 10:00 AM	30.0	-	-	-	-	-	-
10:00 AM - 11:00 AM	30.1	-	-	-	-	-	-
11:00 AM - 12:00 PM	30.8	-	-	-	-	-	-
12:00 PM - 01:00 PM	28.4	-	-	-	-	-	-
01:00 PM - 02:00 PM	27.6	-	-	-	-	-	-
02:00 PM - 03:00 PM	27.7	-	-	-	-	-	-
03:00 PM - 04:00 PM	27.8	-	-	-	-	-	-
04:00 PM - 05:00 PM	25.7	-	-	-	-	-	-
05:00 PM - 06:00 PM	25.6	-	-	-	-	-	-
06:00 PM - 07:00 PM	25.9	-	-	-	-	-	-
07:00 PM - 08:00 PM	26.0	-	-	-	-	-	-
08:00 PM - 09:00 PM	26.1	-	-	-	-	-	-
09:00 PM - 10:00 PM	26.2	-	-	-	-	-	-
10:00 PM - 11:00 PM	26.0	-	-	-	-	-	-
11:00 PM - 12:00 AM	25.6	-	-	-	-	-	-
12:00 AM - 01:00 AM	25.5	-	-	-	-	-	-
01:00 AM - 02:00 AM	25.4	-	-	-	-	-	-
02:00 AM - 03:00 AM	25.6	-	-	-	-	-	-
03:00 AM - 04:00 AM	25.8	-	-	-	-	-	-
04:00 AM - 05:00 AM	25.5	-	-	-	-	-	-
05:00 AM - 06:00 AM	25.4	-	-	-	-	-	-
06:00 AM - 07:00 AM	27.5	-	-	-	-	-	-
07:00 AM - 08:00 AM	27.8	-	-	-	-	-	-
08:00 AM - 09:00 AM	29.5	-	-	-	-	-	-
Average – 24 hr	27.0	-	-	-	-	-	-
Max – 1 hr	30.8	-	-	-	-	-	-
Min – 1 hr	25.4	-	-	-	-	-	-

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

Approved by

Sarayuth Jittranont
Assistant General Manager



Analysis / Test Report

Client : WHA Eastern Industrial Estate Co., Ltd.
18, Pakornsongkrohraj Road, Tambol Huaypong, Amphur Muang, Rayong Thailand 21150

Lot ID: 265071
Date Received :Jan 20, 2026
Date Reported :Jan 22, 2026
Report Number :3490020-1

P/O :
Project Name : Monitoring
Project Location : WHA EIE

Page 1 of 1

Sample Number 265071-3
Parameter Temperature
Location วัดมาบชลูด (A3) (GPS 47P 0730826, 1407360)
Sampling Date Jan 19 - Jan 20, 2026
Sampling by Sirichock Pongprasom

Time	Temperature (°C)						
	Jan 19 - Jan 20, 2026	-	-	-	-	-	-
10:00 AM - 11:00 AM	30.0	-	-	-	-	-	-
11:00 AM - 12:00 PM	30.1	-	-	-	-	-	-
12:00 PM - 01:00 PM	30.6	-	-	-	-	-	-
01:00 PM - 02:00 PM	29.1	-	-	-	-	-	-
02:00 PM - 03:00 PM	28.7	-	-	-	-	-	-
03:00 PM - 04:00 PM	28.3	-	-	-	-	-	-
04:00 PM - 05:00 PM	28.8	-	-	-	-	-	-
05:00 PM - 06:00 PM	27.1	-	-	-	-	-	-
06:00 PM - 07:00 PM	26.4	-	-	-	-	-	-
07:00 PM - 08:00 PM	26.6	-	-	-	-	-	-
08:00 PM - 09:00 PM	26.9	-	-	-	-	-	-
09:00 PM - 10:00 PM	27.0	-	-	-	-	-	-
10:00 PM - 11:00 PM	26.9	-	-	-	-	-	-
11:00 PM - 12:00 AM	26.8	-	-	-	-	-	-
12:00 AM - 01:00 AM	26.6	-	-	-	-	-	-
01:00 AM - 02:00 AM	26.6	-	-	-	-	-	-
02:00 AM - 03:00 AM	26.7	-	-	-	-	-	-
03:00 AM - 04:00 AM	26.6	-	-	-	-	-	-
04:00 AM - 05:00 AM	26.6	-	-	-	-	-	-
05:00 AM - 06:00 AM	26.5	-	-	-	-	-	-
06:00 AM - 07:00 AM	25.7	-	-	-	-	-	-
07:00 AM - 08:00 AM	26.6	-	-	-	-	-	-
08:00 AM - 09:00 AM	27.5	-	-	-	-	-	-
09:00 AM - 10:00 AM	28.6	-	-	-	-	-	-
Average – 24 hr	27.6	-	-	-	-	-	-
Max – 1 hr	30.6	-	-	-	-	-	-
Min – 1 hr	25.7	-	-	-	-	-	-

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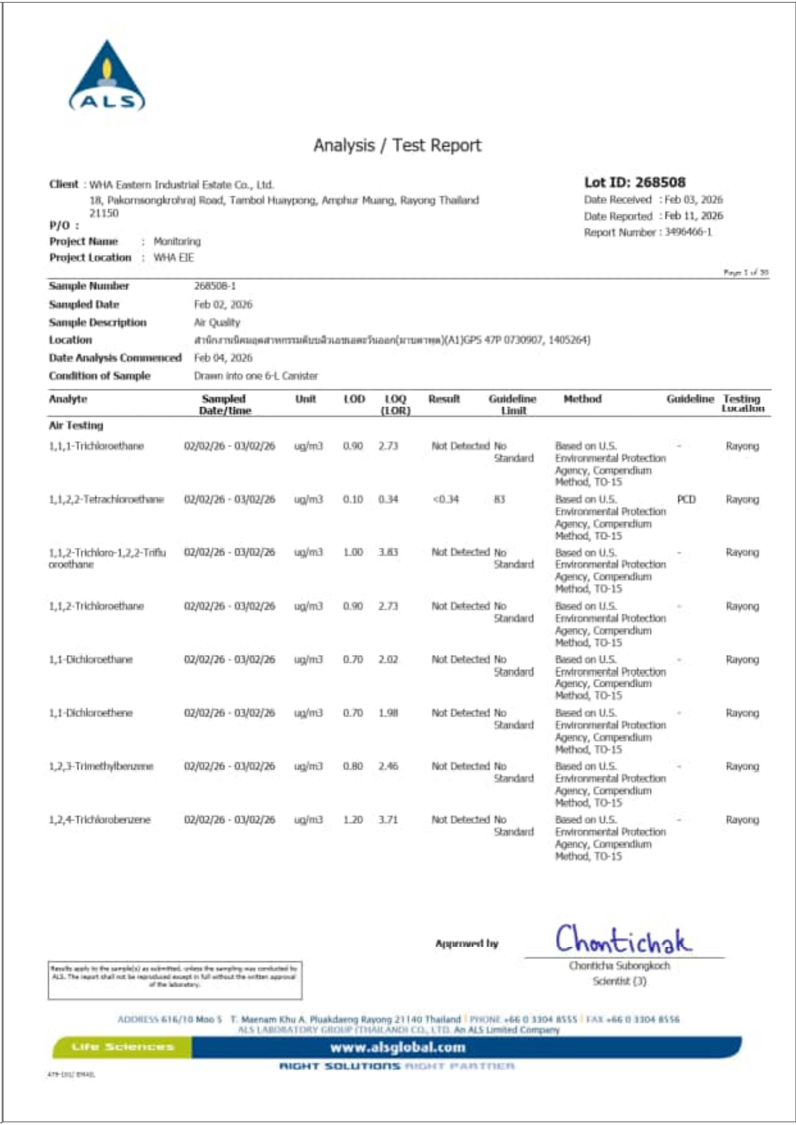
Approved by

Sarayuth Jittranont
Assistant General Manager



Analysis / Test Report

Client : WHA Eastern Industrial Estate Co., Ltd.
18, Pakornsongkrohraj Road, Tambol Huaypong, Amphur Muang, Rayong Thailand
21150

Lot ID: 268508
Date Received : Feb 03, 2026
Date Reported : Feb 11, 2026
Report Number : 3496466-1

P/O :
Project Name : Monitoring
Project Location : WHA EIE

Page 1 of 38

Sample Number 268508-1
Sampled Date Feb 02, 2026
Sample Description Air Quality
Location สำนักงานนิคมอุตสาหกรรมดับบลิวเอชเอตะวันออก(มาบตาพุด)(A1)GPS 47P 0730907, 1405264)
Date Analysis Commenced Feb 04, 2026
Condition of Sample Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
1,1,1-Trichloroethane	02/02/26 - 03/02/26	ug/m3	0.90	2.73	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
1,1,2,2-Tetrachloroethane	02/02/26 - 03/02/26	ug/m3	0.10	0.34	<0.34	83	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong
1,1,2-Trichloro-1,2,2-Trifluoroethane	02/02/26 - 03/02/26	ug/m3	1.00	3.83	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
1,1,2-Trichloroethane	02/02/26 - 03/02/26	ug/m3	0.90	2.73	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
1,1-Dichloroethane	02/02/26 - 03/02/26	ug/m3	0.70	2.02	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
1,1-Dichloroethene	02/02/26 - 03/02/26	ug/m3	0.70	1.98	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
1,2,3-Trimethylbenzene	02/02/26 - 03/02/26	ug/m3	0.80	2.46	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
1,2,4-Trichlorobenzene	02/02/26 - 03/02/26	ug/m3	1.20	3.71	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong

Approved by

Chontichak

Chonticha Subongkoch
Scientist (3)

Analysis / Test Report

Client : WHA Eastern Industrial Estate Co., Ltd.
18, Pakornsongkrohraj Road, Tambol Huaypong, Amphur Muang, Rayong Thailand
21150
P/O :
Project Name : Monitoring
Project Location : WHA EIE

Lot ID: 268508
Date Received : Feb 03, 2026
Date Reported : Feb 11, 2026
Report Number : 3496466-1

Sample Number 268508-1
Sampled Date Feb 02, 2026
Sample Description Air Quality
Location สำนักงานนิคมอุตสาหกรรมดับบลิวเอชเอตะวันออก(มาบตาพุด)(A1)GPS 47P 0730907, 1405264)
Date Analysis Commenced Feb 04, 2026
Condition of Sample Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
1,2,4-Trimethylbenzene	02/02/26 - 03/02/26	ug/m3	0.80	2.46	<2.46	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
1,2-Dibromoethane	02/02/26 - 03/02/26	ug/m3	0.10	0.38	Not Detected	370	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong
1,2-Dichlorobenzene	02/02/26 - 03/02/26	ug/m3	0.20	0.60	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
1,2-Dichloroethane	02/02/26 - 03/02/26	ug/m3	0.07	0.20	0.32	48	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong
1,2-Dichloropropane	02/02/26 - 03/02/26	ug/m3	0.08	0.23	0.28	82	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong
1,2-Dichlorotetrafluoroethane	02/02/26 - 03/02/26	ug/m3	1.20	3.50	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
1,3,5-Trimethylbenzene	02/02/26 - 03/02/26	ug/m3	0.80	2.46	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
1,3-Butadiene	02/02/26 - 03/02/26	ug/m3	0.04	0.11	0.44	5.3	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong

Approved by Chontichak
Chonticha Subongkoch
Scientist (3)

Analysis / Test Report

Client : WHA Eastern Industrial Estate Co., Ltd.
18, Pakornsongkrohraj Road, Tambol Huaypong, Amphur Muang, Rayong Thailand
21150
P/O :
Project Name : Monitoring
Project Location : WHA EIE

Lot ID: 268508
Date Received : Feb 03, 2026
Date Reported : Feb 11, 2026
Report Number : 3496466-1

Sample Number 268508-1
Sampled Date Feb 02, 2026
Sample Description Air Quality
Location สำนักงานนิคมอุตสาหกรรมดับบลิวเอชเอตะวันออก(มาบตาพุด)(A1)GPS 47P 0730907, 1405264)
Date Analysis Commenced Feb 04, 2026
Condition of Sample Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
1,3-Dichlorobenzene	02/02/26 - 03/02/26	ug/m3	0.20	0.60	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
1,4-Dichlorobenzene	02/02/26 - 03/02/26	ug/m3	0.20	0.60	Not Detected	1100	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong
1,4-Dioxane	02/02/26 - 03/02/26	ug/m3	0.10	0.36	<0.36	860	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong
1-Butanol	02/02/26 - 03/02/26	ug/m3	0.50	1.52	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
1-Propanol	02/02/26 - 03/02/26	ug/m3	0.40	1.23	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
2-Hexanone	02/02/26 - 03/02/26	ug/m3	0.70	2.05	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
2-Pentanone	02/02/26 - 03/02/26	ug/m3	0.60	1.76	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
2-Propanol	02/02/26 - 03/02/26	ug/m3	0.40	1.23	3.05	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong

Approved by Chontichak
Chonticha Subongkoch
Scientist (3)

Analysis / Test Report

Client : WHA Eastern Industrial Estate Co., Ltd.
18, Pakornsongkrohraj Road, Tambol Huaypong, Amphur Muang, Rayong Thailand
21150
P/O :
Project Name : Monitoring
Project Location : WHA EIE

Lot ID: 268508
Date Received : Feb 03, 2026
Date Reported : Feb 11, 2026
Report Number : 3496466-1

Sample Number 268508-1
Sampled Date Feb 02, 2026
Sample Description Air Quality
Location สำนักงานนิคมอุตสาหกรรมดับบลิวเอชเอตะวันออก(มาบตาพุด)(A1)GPS 47P 0730907, 1405264)
Date Analysis Commenced Feb 04, 2026
Condition of Sample Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
3-Hexanone	02/02/26 - 03/02/26	ug/m3	0.70	2.05	2.54	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
3-Pentanone	02/02/26 - 03/02/26	ug/m3	0.60	1.76	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Acetaldehyde	02/02/26 - 03/02/26	ug/m3	0.05	0.18	5.88	860	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong
Acetone	02/02/26 - 03/02/26	ug/m3	0.08	0.24	11.50	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Acetonitrile	02/02/26 - 03/02/26	ug/m3	0.30	0.84	<0.84	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Acrolein	02/02/26 - 03/02/26	ug/m3	0.08	0.23	0.41	0.55	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong
Acrylonitrile	02/02/26 - 03/02/26	ug/m3	0.07	0.22	Not Detected	10	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong
Benzene	02/02/26 - 03/02/26	ug/m3	0.05	0.16	2.11	7.6	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong

Approved by Chontichak
Chonticha Subongkoch
Scientist (3)

Analysis / Test Report

Client : WHA Eastern Industrial Estate Co., Ltd.
18, Pakornsongkrohraj Road, Tambol Huaypong, Amphur Muang, Rayong Thailand
21150
P/O :
Project Name : Monitoring
Project Location : WHA EIE

Lot ID: 268508
Date Received : Feb 03, 2026
Date Reported : Feb 11, 2026
Report Number : 3496466-1

Sample Number 268508-1
Sampled Date Feb 02, 2026
Sample Description Air Quality
Location สำนักงานนิคมอุตสาหกรรมดับบลิวเอชเอตะวันออก(มาบตาพุด)(A1)GPS 47P 0730907, 1405264)
Date Analysis Commenced Feb 04, 2026
Condition of Sample Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Benzyl Chloride	02/02/26 - 03/02/26	ug/m3	0.17	0.52	Not Detected	12	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong
Bromodichloromethane	02/02/26 - 03/02/26	ug/m3	1.00	3.35	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Bromoform	02/02/26 - 03/02/26	ug/m3	1.00	5.17	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Bromomethane	02/02/26 - 03/02/26	ug/m3	0.06	0.19	Not Detected	190	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong
Butanal	02/02/26 - 03/02/26	ug/m3	0.49	1.47	<1.47	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Carbon Disulfide	02/02/26 - 03/02/26	ug/m3	0.05	0.16	<0.16	100	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	NEB	Rayong
Carbon Tetrachloride	02/02/26 - 03/02/26	ug/m3	0.10	0.31	0.50	150	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong
Chlorobenzene	02/02/26 - 03/02/26	ug/m3	0.80	2.30	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong

Approved by Chontichak
Chonticha Subongkoch
Scientist (3)

Analysis / Test Report

Client : WHA Eastern Industrial Estate Co., Ltd.
18, Pakornsongkrohraj Road, Tambol Huaypong, Amphur Muang, Rayong Thailand
21150
P/O :
Project Name : Monitoring
Project Location : WHA EIE

Lot ID: 268508
Date Received : Feb 03, 2026
Date Reported : Feb 11, 2026
Report Number : 3496466-1

Sample Number	268508-1
Sampled Date	Feb 02, 2026
Sample Description	Air Quality
Location	สำนักงานนิคมอุตสาหกรรมดับบลิวเอชเอตะวันออก(มาบตาพุด)(A1)GPS 47P 0730907, 1405264)
Date Analysis Commenced	Feb 04, 2026
Condition of Sample	Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Chlorodifluoromethane (HCFC-22)	02/02/26 - 03/02/26	ug/m3	0.60	1.77	<1.77	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Chloroethane	02/02/26 - 03/02/26	ug/m3	0.40	1.32	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Chloroform	02/02/26 - 03/02/26	ug/m3	0.08	0.24	0.29	57	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong
Chloromethane	02/02/26 - 03/02/26	ug/m3	0.30	1.03	1.69	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
cis-1,2-Dichloroethene	02/02/26 - 03/02/26	ug/m3	0.70	1.98	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
cis-1,3-Dichloropropene	02/02/26 - 03/02/26	ug/m3	0.80	2.27	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Cyclohexane	02/02/26 - 03/02/26	ug/m3	0.60	1.72	<1.72	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Cyclopentane	02/02/26 - 03/02/26	ug/m3	0.50	1.43	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong

Approved by Chontichak
Chonticha Subongkoch
Scientist (3)

Analysis / Test Report

Client : WHA Eastern Industrial Estate Co., Ltd.
18, Pakornsongkrohraj Road, Tambol Huaypong, Amphur Muang, Rayong Thailand
21150
P/O :
Project Name : Monitoring
Project Location : WHA EIE

Lot ID: 268508
Date Received : Feb 03, 2026
Date Reported : Feb 11, 2026
Report Number : 3496466-1

Sample Number	268508-1
Sampled Date	Feb 02, 2026
Sample Description	Air Quality
Location	สำนักงานนิคมอุตสาหกรรมดับบลิวเอชเอตะวันออก(มาบตาพุด)(A1)GPS 47P 0730907, 1405264)
Date Analysis Commenced	Feb 04, 2026
Condition of Sample	Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Dichlorodifluoromethane (CFC-112)	02/02/26 - 03/02/26	ug/m3	0.80	2.47	2.57	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Dichloromethane	02/02/26 - 03/02/26	ug/m3	0.06	0.17	3.61	210	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong
Ethanol	02/02/26 - 03/02/26	ug/m3	0.30	0.94	13.94	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Ethyl Benzene	02/02/26 - 03/02/26	ug/m3	0.70	2.17	<2.17	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Hexanal	02/02/26 - 03/02/26	ug/m3	0.60	2.05	<2.05	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Hexane	02/02/26 - 03/02/26	ug/m3	0.60	1.76	6.27	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Isobutene	02/02/26 - 03/02/26	ug/m3	0.40	1.15	2.57	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Isoprene	02/02/26 - 03/02/26	ug/m3	0.50	1.39	<1.39	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong

Approved by Chontichak
Chonticha Subongkoch
Scientist (3)

Analysis / Test Report

Client : WHA Eastern Industrial Estate Co., Ltd.
18, Pakornsongkrohraj Road, Tambol Huaypong, Amphur Muang, Rayong Thailand
21150
P/O :
Project Name : Monitoring
Project Location : WHA EIE

Lot ID: 268508
Date Received : Feb 03, 2026
Date Reported : Feb 11, 2026
Report Number : 3496466-1

Sample Number	268508-1
Sampled Date	Feb 02, 2026
Sample Description	Air Quality
Location	สำนักงานนิคมอุตสาหกรรมดับบลิวเอชเอตะวันออก(มาบตาพุด)(A1)GPS 47P 0730907, 1405264)
Date Analysis Commenced	Feb 04, 2026
Condition of Sample	Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
m,p-Xylene	02/02/26 - 03/02/26	ug/m3	1.50	4.34	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Methacrolein	02/02/26 - 03/02/26	ug/m3	0.50	1.43	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Methanol	02/02/26 - 03/02/26	ug/m3	0.20	0.66	13.16	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Methyl Ethyl Ketone	02/02/26 - 03/02/26	ug/m3	0.50	1.47	4.84	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Methyl Iodide	02/02/26 - 03/02/26	ug/m3	0.90	2.90	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Methyl Isobutyl Ketone	02/02/26 - 03/02/26	ug/m3	0.70	2.05	7.62	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Methyl tert butyl ether	02/02/26 - 03/02/26	ug/m3	0.60	1.80	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Methyl Vinyl Ketone	02/02/26 - 03/02/26	ug/m3	0.50	1.43	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong

Approved by Chontichak
Chonticha Subongkoch
Scientist (3)

Analysis / Test Report

Client : WHA Eastern Industrial Estate Co., Ltd.
18, Pakornsongkrohraj Road, Tambol Huaypong, Amphur Muang, Rayong Thailand
21150
P/O :
Project Name : Monitoring
Project Location : WHA EIE

Lot ID: 268508
Date Received : Feb 03, 2026
Date Reported : Feb 11, 2026
Report Number : 3496466-1

Sample Number	268508-1
Sampled Date	Feb 02, 2026
Sample Description	Air Quality
Location	สำนักงานนิคมอุตสาหกรรมดับบลิวเอชเอตะวันออก(มาบตาพุด)(A1)GPS 47P 0730907, 1405264)
Date Analysis Commenced	Feb 04, 2026
Condition of Sample	Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
o-Xylene	02/02/26 - 03/02/26	ug/m3	0.70	2.17	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Pentanal	02/02/26 - 03/02/26	ug/m3	0.50	1.76	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Pentane	02/02/26 - 03/02/26	ug/m3	0.50	1.48	2.95	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Propanal	02/02/26 - 03/02/26	ug/m3	0.50	1.19	<1.19	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Propene (Propylene)	02/02/26 - 03/02/26	ug/m3	0.30	0.86	10.95	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Styrene	02/02/26 - 03/02/26	ug/m3	0.70	2.13	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Tetrachloroethylene	02/02/26 - 03/02/26	ug/m3	0.11	0.34	<0.34	400	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong
Toluene	02/02/26 - 03/02/26	ug/m3	0.60	1.88	8.44	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong

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Scientist (3)

Analysis / Test Report

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18, Pakornsongkrohraj Road, Tambol Huaypong, Amphur Muang, Rayong Thailand
21150
P/O :
Project Name : Monitoring
Project Location : WHA EIE

Lot ID: 268508
Date Received : Feb 03, 2026
Date Reported : Feb 11, 2026
Report Number : 3496466-1

Sample Number 268508-1
Sampled Date Feb 02, 2026
Sample Description Air Quality
Location สำนักงานนิคมอุตสาหกรรมดับบลิวเอชเอตะวันออก(มาบตาพุด)(A1)GPS 47P 0730907, 1405264)
Date Analysis Commenced Feb 04, 2026
Condition of Sample Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
trans-1,2-Dichloroethene	02/02/26 - 03/02/26	ug/m3	0.70	1.98	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
trans-1,3-Dichloropropene	02/02/26 - 03/02/26	ug/m3	0.80	2.27	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Trichloroethylene	02/02/26 - 03/02/26	ug/m3	0.09	0.27	Not Detected	130	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong
Trichlorofluoromethane (F-11)	02/02/26 - 03/02/26	ug/m3	0.90	2.81	<2.81	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Vinyl Acetate	02/02/26 - 03/02/26	ug/m3	0.60	1.76	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Vinyl Chloride	02/02/26 - 03/02/26	ug/m3	0.04	0.13	0.97	20	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong

Guideline :
NEB : Notification of National Environment Board, B.E. 2560 (2017)
PCD : Notification of the Pollution Control Department, which was published in the Royal Government Gazette Vol. 126 Special Part 13 D dated January 27, B.E. 2552 (2009).
Sampled By : Anuwet Tema

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

Approved by Chontichak
Chonticha Subongkoch
Scientist (3)

Analysis / Test Report

Client : WHA Eastern Industrial Estate Co., Ltd.
18, Pakornsongkrohraj Road, Tambol Huaypong, Amphur Muang, Rayong Thailand
21150
P/O :
Project Name : Monitoring
Project Location : WHA EIE

Lot ID: 268508
Date Received : Feb 03, 2026
Date Reported : Feb 11, 2026
Report Number : 3496466-1

Sample Number 268508-2
Sampled Date Feb 02, 2026
Sample Description Air Quality
Location วัดหนองแฟบ(A2) (GPS 47P 0729828, 1403318)
Date Analysis Commenced Feb 04, 2026
Condition of Sample Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
1,1,1-Trichloroethane	02/02/26 - 03/02/26	ug/m3	0.90	2.73	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
1,1,2,2-Tetrachloroethane	02/02/26 - 03/02/26	ug/m3	0.10	0.34	Not Detected	83	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong
1,1,2-Trichloro-1,2,2-Trifluoroethane	02/02/26 - 03/02/26	ug/m3	1.00	3.83	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
1,1,2-Trichloroethane	02/02/26 - 03/02/26	ug/m3	0.90	2.73	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
1,1-Dichloroethane	02/02/26 - 03/02/26	ug/m3	0.70	2.02	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
1,1-Dichloroethene	02/02/26 - 03/02/26	ug/m3	0.70	1.98	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
1,2,3-Trimethylbenzene	02/02/26 - 03/02/26	ug/m3	0.80	2.46	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
1,2,4-Trichlorobenzene	02/02/26 - 03/02/26	ug/m3	1.20	3.71	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong

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Analysis / Test Report

Client : WHA Eastern Industrial Estate Co., Ltd.
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21150
P/O :
Project Name : Monitoring
Project Location : WHA EIE

Lot ID: 268508
Date Received : Feb 03, 2026
Date Reported : Feb 11, 2026
Report Number : 3496466-1

Sample Number 268508-2
Sampled Date Feb 02, 2026
Sample Description Air Quality
Location วัดหนองแฟบ(A2) (GPS 47P 0729828, 1403318)
Date Analysis Commenced Feb 04, 2026
Condition of Sample Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
1,2,4-Trimethylbenzene	02/02/26 - 03/02/26	ug/m3	0.80	2.46	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
1,2-Dibromoethane	02/02/26 - 03/02/26	ug/m3	0.10	0.38	<0.38	370	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong
1,2-Dichlorobenzene	02/02/26 - 03/02/26	ug/m3	0.20	0.60	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
1,2-Dichloroethane	02/02/26 - 03/02/26	ug/m3	0.07	0.20	<0.20	48	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong
1,2-Dichloropropane	02/02/26 - 03/02/26	ug/m3	0.08	0.23	0.28	82	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong
1,2-Dichlorotetrafluoroethane	02/02/26 - 03/02/26	ug/m3	1.20	3.50	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
1,3,5-Trimethylbenzene	02/02/26 - 03/02/26	ug/m3	0.80	2.46	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
1,3-Butadiene	02/02/26 - 03/02/26	ug/m3	0.04	0.11	1.33	5.3	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong

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Analysis / Test Report

Client : WHA Eastern Industrial Estate Co., Ltd.
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21150
P/O :
Project Name : Monitoring
Project Location : WHA EIE

Lot ID: 268508
Date Received : Feb 03, 2026
Date Reported : Feb 11, 2026
Report Number : 3496466-1

Sample Number 268508-2
Sampled Date Feb 02, 2026
Sample Description Air Quality
Location วัดหนองแฟบ(A2) (GPS 47P 0729828, 1403318)
Date Analysis Commenced Feb 04, 2026
Condition of Sample Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
1,3-Dichlorobenzene	02/02/26 - 03/02/26	ug/m3	0.20	0.60	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
1,4-Dichlorobenzene	02/02/26 - 03/02/26	ug/m3	0.20	0.60	Not Detected	1100	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong
1,4-Dioxane	02/02/26 - 03/02/26	ug/m3	0.10	0.36	Not Detected	860	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong
1-Butanol	02/02/26 - 03/02/26	ug/m3	0.50	1.52	<1.52	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
1-Propanol	02/02/26 - 03/02/26	ug/m3	0.40	1.23	<1.23	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
2-Hexanone	02/02/26 - 03/02/26	ug/m3	0.70	2.05	<2.05	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
2-Pentanone	02/02/26 - 03/02/26	ug/m3	0.60	1.76	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
2-Propanol	02/02/26 - 03/02/26	ug/m3	0.40	1.23	1.92	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong

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Analysis / Test Report

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21150
P/O :
Project Name : Monitoring
Project Location : WHA EIE

Lot ID: 268508
Date Received : Feb 03, 2026
Date Reported : Feb 11, 2026
Report Number : 3496466-1

Sample Number 268508-2
Sampled Date Feb 02, 2026
Sample Description Air Quality
Location วัดหนองแฟบ(A2) (GPS 47P 0729828, 1403318)
Date Analysis Commenced Feb 04, 2026
Condition of Sample Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
3-Hexanone	02/02/26 - 03/02/26	ug/m3	0.70	2.05	3.60	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
3-Pentanone	02/02/26 - 03/02/26	ug/m3	0.60	1.76	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Acetaldehyde	02/02/26 - 03/02/26	ug/m3	0.05	0.18	4.80	860	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong
Acetone	02/02/26 - 03/02/26	ug/m3	0.08	0.24	12.64	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Acetonitrile	02/02/26 - 03/02/26	ug/m3	0.30	0.84	1.31	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Acrolein	02/02/26 - 03/02/26	ug/m3	0.08	0.23	<0.23	0.55	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong
Acrylonitrile	02/02/26 - 03/02/26	ug/m3	0.07	0.22	<0.22	10	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong
Benzene	02/02/26 - 03/02/26	ug/m3	0.05	0.16	3.39	7.6	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong

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Analysis / Test Report

Client : WHA Eastern Industrial Estate Co., Ltd.
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21150
P/O :
Project Name : Monitoring
Project Location : WHA EIE

Lot ID: 268508
Date Received : Feb 03, 2026
Date Reported : Feb 11, 2026
Report Number : 3496466-1

Sample Number 268508-2
Sampled Date Feb 02, 2026
Sample Description Air Quality
Location วัดหนองแฟบ(A2) (GPS 47P 0729828, 1403318)
Date Analysis Commenced Feb 04, 2026
Condition of Sample Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Benzyl Chloride	02/02/26 - 03/02/26	ug/m3	0.17	0.52	Not Detected	12	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong
Bromodichloromethane	02/02/26 - 03/02/26	ug/m3	1.00	3.35	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Bromoform	02/02/26 - 03/02/26	ug/m3	1.00	5.17	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Bromomethane	02/02/26 - 03/02/26	ug/m3	0.06	0.19	0.85	190	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong
Butanal	02/02/26 - 03/02/26	ug/m3	0.49	1.47	<1.47	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Carbon Disulfide	02/02/26 - 03/02/26	ug/m3	0.05	0.16	<0.16	100	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	NEB	Rayong
Carbon Tetrachloride	02/02/26 - 03/02/26	ug/m3	0.10	0.31	0.50	150	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong
Chlorobenzene	02/02/26 - 03/02/26	ug/m3	0.80	2.30	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong

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Analysis / Test Report

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21150
P/O :
Project Name : Monitoring
Project Location : WHA EIE

Lot ID: 268508
Date Received : Feb 03, 2026
Date Reported : Feb 11, 2026
Report Number : 3496466-1

Sample Number 268508-2
Sampled Date Feb 02, 2026
Sample Description Air Quality
Location วัดหนองแฟบ(A2) (GPS 47P 0729828, 1403318)
Date Analysis Commenced Feb 04, 2026
Condition of Sample Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Chlorodifluoromethane (HCFC-22)	02/02/26 - 03/02/26	ug/m3	0.60	1.77	<1.77	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Chloroethane	02/02/26 - 03/02/26	ug/m3	0.40	1.32	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Chloroform	02/02/26 - 03/02/26	ug/m3	0.08	0.24	0.39	57	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong
Chloromethane	02/02/26 - 03/02/26	ug/m3	0.30	1.03	1.73	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
cis-1,2-Dichloroethene	02/02/26 - 03/02/26	ug/m3	0.70	1.98	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
cis-1,3-Dichloropropene	02/02/26 - 03/02/26	ug/m3	0.80	2.27	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Cyclohexane	02/02/26 - 03/02/26	ug/m3	0.60	1.72	2.07	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Cyclopentane	02/02/26 - 03/02/26	ug/m3	0.50	1.43	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong

Approved by Chontichak
Chonticha Subongkoch
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Analysis / Test Report

Client : WHA Eastern Industrial Estate Co., Ltd.
18, Pakornsongkrohraj Road, Tambol Huaypong, Amphur Muang, Rayong Thailand
21150
P/O :
Project Name : Monitoring
Project Location : WHA EIE

Lot ID: 268508
Date Received : Feb 03, 2026
Date Reported : Feb 11, 2026
Report Number : 3496466-1

Sample Number 268508-2
Sampled Date Feb 02, 2026
Sample Description Air Quality
Location วัดหนองแฟบ(A2) (GPS 47P 0729828, 1403318)
Date Analysis Commenced Feb 04, 2026
Condition of Sample Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Dichlorodifluoromethane (CFC-112)	02/02/26 - 03/02/26	ug/m3	0.80	2.47	2.57	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Dichloromethane	02/02/26 - 03/02/26	ug/m3	0.06	0.17	6.81	210	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong
Ethanol	02/02/26 - 03/02/26	ug/m3	0.30	0.94	14.51	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Ethyl Benzene	02/02/26 - 03/02/26	ug/m3	0.70	2.17	<2.17	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Hexanal	02/02/26 - 03/02/26	ug/m3	0.60	2.05	<2.05	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Hexane	02/02/26 - 03/02/26	ug/m3	0.60	1.76	3.60	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Isobutene	02/02/26 - 03/02/26	ug/m3	0.40	1.15	2.62	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Isoprene	02/02/26 - 03/02/26	ug/m3	0.50	1.39	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong

Approved by Chontichak
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Analysis / Test Report

Client : WHA Eastern Industrial Estate Co., Ltd.
18, Pakornsongkrohraj Road, Tambol Huaypong, Amphur Muang, Rayong Thailand
21150
P/O :
Project Name : Monitoring
Project Location : WHA EIE

Lot ID: 268508
Date Received : Feb 03, 2026
Date Reported : Feb 11, 2026
Report Number : 3496466-1

Sample Number	268508-2
Sampled Date	Feb 02, 2026
Sample Description	Air Quality
Location	วัดหนองแฟบ(A2) (GPS 47P 0729828, 1403318)
Date Analysis Commenced	Feb 04, 2026
Condition of Sample	Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
m,p-Xylene	02/02/26 - 03/02/26	ug/m3	1.50	4.34	<4.34	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Methacrolein	02/02/26 - 03/02/26	ug/m3	0.50	1.43	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Methanol	02/02/26 - 03/02/26	ug/m3	0.20	0.66	19.08	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Methyl Ethyl Ketone	02/02/26 - 03/02/26	ug/m3	0.50	1.47	2.89	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Methyl Iodide	02/02/26 - 03/02/26	ug/m3	0.90	2.90	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Methyl Isobutyl Ketone	02/02/26 - 03/02/26	ug/m3	0.70	2.05	3.28	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Methyl tert butyl ether	02/02/26 - 03/02/26	ug/m3	0.60	1.80	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Methyl Vinyl Ketone	02/02/26 - 03/02/26	ug/m3	0.50	1.43	<1.43	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong

Approved by Chontichak
Chonticha Subongkoch
Scientist (3)

Analysis / Test Report

Client : WHA Eastern Industrial Estate Co., Ltd.
18, Pakornsongkrohraj Road, Tambol Huaypong, Amphur Muang, Rayong Thailand
21150
P/O :
Project Name : Monitoring
Project Location : WHA EIE

Lot ID: 268508
Date Received : Feb 03, 2026
Date Reported : Feb 11, 2026
Report Number : 3496466-1

Sample Number	268508-2
Sampled Date	Feb 02, 2026
Sample Description	Air Quality
Location	วัดหนองแฟบ(A2) (GPS 47P 0729828, 1403318)
Date Analysis Commenced	Feb 04, 2026
Condition of Sample	Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
o-Xylene	02/02/26 - 03/02/26	ug/m3	0.70	2.17	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Pentanal	02/02/26 - 03/02/26	ug/m3	0.50	1.76	<1.76	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Pentane	02/02/26 - 03/02/26	ug/m3	0.50	1.48	2.89	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Propanal	02/02/26 - 03/02/26	ug/m3	0.50	1.19	<1.19	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Propene (Propylene)	02/02/26 - 03/02/26	ug/m3	0.30	0.86	16.07	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Styrene	02/02/26 - 03/02/26	ug/m3	0.70	2.13	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Tetrachloroethylene	02/02/26 - 03/02/26	ug/m3	0.11	0.34	<0.34	400	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong
Toluene	02/02/26 - 03/02/26	ug/m3	0.60	1.88	8.22	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong

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Chonticha Subongkoch
Scientist (3)

Analysis / Test Report

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18, Pakornsongkrohraj Road, Tambol Huaypong, Amphur Muang, Rayong Thailand
21150
P/O :
Project Name : Monitoring
Project Location : WHA EIE

Lot ID: 268508
Date Received : Feb 03, 2026
Date Reported : Feb 11, 2026
Report Number : 3496466-1

Sample Number	268508-2
Sampled Date	Feb 02, 2026
Sample Description	Air Quality
Location	วัดหนองแฟบ(A2) (GPS 47P 0729828, 1403318)
Date Analysis Commenced	Feb 04, 2026
Condition of Sample	Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
trans-1,2-Dichloroethene	02/02/26 - 03/02/26	ug/m3	0.70	1.98	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
trans-1,3-Dichloropropene	02/02/26 - 03/02/26	ug/m3	0.80	2.27	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Trichloroethylene	02/02/26 - 03/02/26	ug/m3	0.09	0.27	Not Detected	130	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong
Trichlorofluoromethane (F-11)	02/02/26 - 03/02/26	ug/m3	0.90	2.81	<2.81	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Vinyl Acetate	02/02/26 - 03/02/26	ug/m3	0.60	1.76	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Vinyl Chloride	02/02/26 - 03/02/26	ug/m3	0.04	0.13	0.46	20	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong

Guideline :
NEB : Notification of National Environment Board, B.E. 2560 (2017)
PCD : Notification of the Pollution Control Department, which was published in the Royal Government Gazette Vol. 126 Special Part 13 D dated January 27, B.E. 2552 (2009).
Sampled By : Anuwet Tema

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

Approved by Chontichak
Chonticha Subongkoch
Scientist (3)

Analysis / Test Report

Client : WHA Eastern Industrial Estate Co., Ltd.
18, Pakornsongkrohraj Road, Tambol Huaypong, Amphur Muang, Rayong Thailand
21150
P/O :
Project Name : Monitoring
Project Location : WHA EIE

Lot ID: 268508
Date Received : Feb 03, 2026
Date Reported : Feb 11, 2026
Report Number : 3496466-1

Sample Number	268508-3
Sampled Date	Feb 02, 2026
Sample Description	Air Quality
Location	วัดมาบชลูด(A3) (GPS 47P 0730826, 1407360)
Date Analysis Commenced	Feb 04, 2026
Condition of Sample	Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
1,1,1-Trichloroethane	02/02/26 - 03/02/26	ug/m3	0.90	2.73	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
1,1,2,2-Tetrachloroethane	02/02/26 - 03/02/26	ug/m3	0.10	0.34	0.41	83	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong
1,1,2-Trichloro-1,2,2-Trifluoroethane	02/02/26 - 03/02/26	ug/m3	1.00	3.83	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
1,1,2-Trichloroethane	02/02/26 - 03/02/26	ug/m3	0.90	2.73	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
1,1-Dichloroethane	02/02/26 - 03/02/26	ug/m3	0.70	2.02	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
1,1-Dichloroethene	02/02/26 - 03/02/26	ug/m3	0.70	1.98	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
1,2,3-Trimethylbenzene	02/02/26 - 03/02/26	ug/m3	0.80	2.46	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
1,2,4-Trichlorobenzene	02/02/26 - 03/02/26	ug/m3	1.20	3.71	4.01	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong

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Analysis / Test Report

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21150
P/O :
Project Name : Monitoring
Project Location : WHA EIE

Lot ID: 268508
Date Received : Feb 03, 2026
Date Reported : Feb 11, 2026
Report Number : 3496466-1

Sample Number 268508-3
Sampled Date Feb 02, 2026
Sample Description Air Quality
Location วัดมาบชลูด(A3) (GPS 47P 0730826, 1407360)
Date Analysis Commenced Feb 04, 2026
Condition of Sample Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
1,2,4-Trimethylbenzene	02/02/26 - 03/02/26	ug/m3	0.80	2.46	<2.46	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
1,2-Dibromoethane	02/02/26 - 03/02/26	ug/m3	0.10	0.38	<0.38	370	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong
1,2-Dichlorobenzene	02/02/26 - 03/02/26	ug/m3	0.20	0.60	<0.60	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
1,2-Dichloroethane	02/02/26 - 03/02/26	ug/m3	0.07	0.20	0.24	48	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong
1,2-Dichloropropane	02/02/26 - 03/02/26	ug/m3	0.08	0.23	0.28	82	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong
1,2-Dichlorotetrafluoroethane	02/02/26 - 03/02/26	ug/m3	1.20	3.50	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
1,3,5-Trimethylbenzene	02/02/26 - 03/02/26	ug/m3	0.80	2.46	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
1,3-Butadiene	02/02/26 - 03/02/26	ug/m3	0.04	0.11	1.24	5.3	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong

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Analysis / Test Report

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21150
P/O :
Project Name : Monitoring
Project Location : WHA EIE

Lot ID: 268508
Date Received : Feb 03, 2026
Date Reported : Feb 11, 2026
Report Number : 3496466-1

Sample Number 268508-3
Sampled Date Feb 02, 2026
Sample Description Air Quality
Location วัดมาบชลูด(A3) (GPS 47P 0730826, 1407360)
Date Analysis Commenced Feb 04, 2026
Condition of Sample Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
1,3-Dichlorobenzene	02/02/26 - 03/02/26	ug/m3	0.20	0.60	<0.60	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
1,4-Dichlorobenzene	02/02/26 - 03/02/26	ug/m3	0.20	0.60	<0.60	1100	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong
1,4-Dioxane	02/02/26 - 03/02/26	ug/m3	0.10	0.36	<0.36	860	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong
1-Butanol	02/02/26 - 03/02/26	ug/m3	0.50	1.52	<1.52	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
1-Propanol	02/02/26 - 03/02/26	ug/m3	0.40	1.23	<1.23	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
2-Hexanone	02/02/26 - 03/02/26	ug/m3	0.70	2.05	5.16	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
2-Pentanone	02/02/26 - 03/02/26	ug/m3	0.60	1.76	<1.76	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
2-Propanol	02/02/26 - 03/02/26	ug/m3	0.40	1.23	3.34	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong

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Analysis / Test Report

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21150
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Project Name : Monitoring
Project Location : WHA EIE

Lot ID: 268508
Date Received : Feb 03, 2026
Date Reported : Feb 11, 2026
Report Number : 3496466-1

Sample Number 268508-3
Sampled Date Feb 02, 2026
Sample Description Air Quality
Location วัดมาบชลูด(A3) (GPS 47P 0730826, 1407360)
Date Analysis Commenced Feb 04, 2026
Condition of Sample Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
3-Hexanone	02/02/26 - 03/02/26	ug/m3	0.70	2.05	4.59	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
3-Pentanone	02/02/26 - 03/02/26	ug/m3	0.60	1.76	<1.76	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Acetaldehyde	02/02/26 - 03/02/26	ug/m3	0.05	0.18	4.11	860	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong
Acetone	02/02/26 - 03/02/26	ug/m3	0.08	0.24	12.45	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Acetonitrile	02/02/26 - 03/02/26	ug/m3	0.30	0.84	0.91	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Acrolein	02/02/26 - 03/02/26	ug/m3	0.08	0.23	0.37	0.55	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong
Acrylonitrile	02/02/26 - 03/02/26	ug/m3	0.07	0.22	<0.22	10	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong
Benzene	02/02/26 - 03/02/26	ug/m3	0.05	0.16	1.98	7.6	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong

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21150
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Project Name : Monitoring
Project Location : WHA EIE

Lot ID: 268508
Date Received : Feb 03, 2026
Date Reported : Feb 11, 2026
Report Number : 3496466-1

Sample Number 268508-3
Sampled Date Feb 02, 2026
Sample Description Air Quality
Location วัดมาบชลูด(A3) (GPS 47P 0730826, 1407360)
Date Analysis Commenced Feb 04, 2026
Condition of Sample Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Benzyl Chloride	02/02/26 - 03/02/26	ug/m3	0.17	0.52	<0.52	12	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong
Bromodichloromethane	02/02/26 - 03/02/26	ug/m3	1.00	3.35	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Bromoform	02/02/26 - 03/02/26	ug/m3	1.00	5.17	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Bromomethane	02/02/26 - 03/02/26	ug/m3	0.06	0.19	0.31	190	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong
Butanal	02/02/26 - 03/02/26	ug/m3	0.49	1.47	<1.47	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Carbon Disulfide	02/02/26 - 03/02/26	ug/m3	0.05	0.16	<0.16	100	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	NEB	Rayong
Carbon Tetrachloride	02/02/26 - 03/02/26	ug/m3	0.10	0.31	0.50	150	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong
Chlorobenzene	02/02/26 - 03/02/26	ug/m3	0.80	2.30	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong

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Lot ID: 268508
Date Received : Feb 03, 2026
Date Reported : Feb 11, 2026
Report Number : 3496466-1

Sample Number 268508-3
Sampled Date Feb 02, 2026
Sample Description Air Quality
Location วัดมาบชลูด(A3) (GPS 47P 0730826, 1407360)
Date Analysis Commenced Feb 04, 2026
Condition of Sample Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Chlorodifluoromethane (HCFC-22)	02/02/26 - 03/02/26	ug/m3	0.60	1.77	<1.77	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Chloroethane	02/02/26 - 03/02/26	ug/m3	0.40	1.32	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Chloroform	02/02/26 - 03/02/26	ug/m3	0.08	0.24	<0.24	57	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong
Chloromethane	02/02/26 - 03/02/26	ug/m3	0.30	1.03	1.86	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
cis-1,2-Dichloroethene	02/02/26 - 03/02/26	ug/m3	0.70	1.98	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
cis-1,3-Dichloropropene	02/02/26 - 03/02/26	ug/m3	0.80	2.27	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Cyclohexane	02/02/26 - 03/02/26	ug/m3	0.60	1.72	<1.72	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Cyclopentane	02/02/26 - 03/02/26	ug/m3	0.50	1.43	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong

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Analysis / Test Report

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21150
P/O :
Project Name : Monitoring
Project Location : WHA EIE

Lot ID: 268508
Date Received : Feb 03, 2026
Date Reported : Feb 11, 2026
Report Number : 3496466-1

Sample Number 268508-3
Sampled Date Feb 02, 2026
Sample Description Air Quality
Location วัดมาบชลูด(A3) (GPS 47P 0730826, 1407360)
Date Analysis Commenced Feb 04, 2026
Condition of Sample Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Dichlorodifluoromethane (CFC-112)	02/02/26 - 03/02/26	ug/m3	0.80	2.47	2.57	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Dichloromethane	02/02/26 - 03/02/26	ug/m3	0.06	0.17	3.54	210	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong
Ethanol	02/02/26 - 03/02/26	ug/m3	0.30	0.94	23.21	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Ethyl Benzene	02/02/26 - 03/02/26	ug/m3	0.70	2.17	<2.17	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Hexanal	02/02/26 - 03/02/26	ug/m3	0.60	2.05	2.54	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Hexane	02/02/26 - 03/02/26	ug/m3	0.60	1.76	2.26	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Isobutene	02/02/26 - 03/02/26	ug/m3	0.40	1.15	<1.15	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Isoprene	02/02/26 - 03/02/26	ug/m3	0.50	1.39	<1.39	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong

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Chonticha Subongkoch
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Analysis / Test Report

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21150
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Project Name : Monitoring
Project Location : WHA EIE

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Date Reported : Feb 11, 2026
Report Number : 3496466-1

Sample Number 268508-3
Sampled Date Feb 02, 2026
Sample Description Air Quality
Location วัดมาบชลูด(A3) (GPS 47P 0730826, 1407360)
Date Analysis Commenced Feb 04, 2026
Condition of Sample Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
m,p-Xylene	02/02/26 - 03/02/26	ug/m3	1.50	4.34	<4.34	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Methacrolein	02/02/26 - 03/02/26	ug/m3	0.50	1.43	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Methanol	02/02/26 - 03/02/26	ug/m3	0.20	0.66	19.26	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Methyl Ethyl Ketone	02/02/26 - 03/02/26	ug/m3	0.50	1.47	2.06	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Methyl Iodide	02/02/26 - 03/02/26	ug/m3	0.90	2.90	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Methyl Isobutyl Ketone	02/02/26 - 03/02/26	ug/m3	0.70	2.05	2.46	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Methyl tert butyl ether	02/02/26 - 03/02/26	ug/m3	0.60	1.80	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Methyl Vinyl Ketone	02/02/26 - 03/02/26	ug/m3	0.50	1.43	<1.43	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong

Approved by Chontichak
Chonticha Subongkoch
Scientist (3)

Analysis / Test Report

Client : WHA Eastern Industrial Estate Co., Ltd.
18, Pakornsongkrohraj Road, Tambol Huaypong, Amphur Muang, Rayong Thailand
21150
P/O :
Project Name : Monitoring
Project Location : WHA EIE

Lot ID: 268508
Date Received : Feb 03, 2026
Date Reported : Feb 11, 2026
Report Number : 3496466-1

Sample Number 268508-3
Sampled Date Feb 02, 2026
Sample Description Air Quality
Location วัดมาบชลูด(A3) (GPS 47P 0730826, 1407360)
Date Analysis Commenced Feb 04, 2026
Condition of Sample Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
o-Xylene	02/02/26 - 03/02/26	ug/m3	0.70	2.17	<2.17	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Pentanal	02/02/26 - 03/02/26	ug/m3	0.50	1.76	<1.76	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Pentane	02/02/26 - 03/02/26	ug/m3	0.50	1.48	2.71	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Propanal	02/02/26 - 03/02/26	ug/m3	0.50	1.19	1.28	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Propene (Propylene)	02/02/26 - 03/02/26	ug/m3	0.30	0.86	4.44	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Styrene	02/02/26 - 03/02/26	ug/m3	0.70	2.13	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Tetrachloroethylene	02/02/26 - 03/02/26	ug/m3	0.11	0.34	0.41	400	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong
Toluene	02/02/26 - 03/02/26	ug/m3	0.60	1.88	13.49	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong

Approved by Chontichak
Chonticha Subongkoch
Scientist (3)

Analysis / Test Report

Client : WHA Eastern Industrial Estate Co., Ltd.
18, Pakornsongkrohraj Road, Tambol Huaypong, Amphur Muang, Rayong Thailand 21150
P/O :
Project Name : Monitoring
Project Location : WHA EIE

Lot ID: 268508
Date Received : Feb 03, 2026
Date Reported : Feb 11, 2026
Report Number : 3496466-1

Sample Number	268508-3
Sampled Date	Feb 02, 2026
Sample Description	Air Quality
Location	วัดมาบชลูด(A3) (GPS 47P 0730826, 1407360)
Date Analysis Commenced	Feb 04, 2026
Condition of Sample	Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
trans-1,2-Dichloroethene	02/02/26 - 03/02/26	ug/m3	0.70	1.98	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
trans-1,3-Dichloropropene	02/02/26 - 03/02/26	ug/m3	0.80	2.27	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Trichloroethylene	02/02/26 - 03/02/26	ug/m3	0.09	0.27	Not Detected	130	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong
Trichlorofluoromethane (F-11)	02/02/26 - 03/02/26	ug/m3	0.90	2.81	<2.81	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Vinyl Acetate	02/02/26 - 03/02/26	ug/m3	0.60	1.76	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Vinyl Chloride	02/02/26 - 03/02/26	ug/m3	0.04	0.13	0.26	20	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong

Guideline :
NEB : Notification of National Environment Board, B.E. 2560 (2017)
PCD : Notification of the Pollution Control Department, which was published in the Royal Government Gazette Vol. 126 Special Part 13 D dated January 27, B.E. 2552 (2009).
Sampled By : Anuwet Tema

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

Approved by Chontichak
Chonticha Subongkoch
Scientist (3)

Analysis / Test Report

Client : WHA Eastern Industrial Estate Co., Ltd.
18, Pakornsongkrohraj Road, Tambol Huaypong, Amphur Muang, Rayong Thailand 21150

P/O :
Project Name : Monitoring
Project Location : WHA EIE

Lot ID: 268506
Date Received :Feb 03, 2026
Date Reported :Feb 06, 2026
Report Number :3496461-1

Sample Number	268506-1
Parameter	Wind Speed / Wind Direction
Location	สำนักงานนิคมอุตสาหกรรมดับบลิวเอชเอตะวันออก (มาบตาพุด) (A1) (GPS 47P 0730907, 1405264)
Sampling Date	Feb 02 - Feb 03, 2026
Sampling by	Anuwet Tema

Time	Feb 02 - Feb 03, 2026			-			-			-			-			-			-		
	WS (m/s)	WD (deg)		-	-		-	-		-	-		-	-		-	-		-	-	
10:00 AM - 11:00 AM	0.9	89.0	E	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11:00 AM - 12:00 PM	3.8	79.0	E	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12:00 PM - 01:00 PM	0.9	20.0	NNE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
01:00 PM - 02:00 PM	1.8	94.0	E	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
02:00 PM - 03:00 PM	4.3	134.0	SE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
03:00 PM - 04:00 PM	2.5	86.0	E	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
04:00 PM - 05:00 PM	2.2	159.0	SSE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
05:00 PM - 06:00 PM	3.8	105.0	ESE																		
06:00 PM - 07:00 PM	1.9	117.0	ESE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
07:00 PM - 08:00 PM	0.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
08:00 PM - 09:00 PM	0.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
09:00 PM - 10:00 PM	2.0	56.0	NE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10:00 PM - 11:00 PM	0.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11:00 PM - 12:00 AM	0.8	344.0	NNW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12:00 AM - 01:00 AM	0.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
01:00 AM - 02:00 AM	0.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
02:00 AM - 03:00 AM	2.6	358.0	N	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
03:00 AM - 04:00 AM	2.3	29.0	NNE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
04:00 AM - 05:00 AM	0.8	45.0	NE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
05:00 AM - 06:00 AM	2.0	345.0	NNW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
06:00 AM - 07:00 AM	1.3	28.0	NNE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
07:00 AM - 08:00 AM	0.9	21.0	NNE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
08:00 AM - 09:00 AM	3.5	31.0	NNE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
09:00 AM - 10:00 AM	2.3	35.0	NE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Reference Method : Cup Anemometer & Anodized Aluminum Vane Method

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Approved by
Sarayuth Jittranont
Assistant General Manager

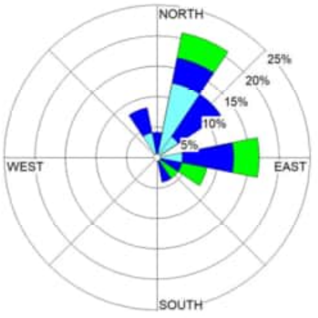
Analysis / Test Report

Client : WHA Eastern Industrial Estate Co., Ltd.
18, Pakornsongkrohraj Road, Tambol Huaypong, Amphur Muang, Rayong Thailand 21150

P/O :
Project Name : Monitoring
Project Location : WHA EIE

Lot ID: 268506
Date Received :Feb 03, 2026
Date Reported :Feb 06, 2026
Report Number :3496461-1

Wind Rose



Date : Feb 02-03, 2026

	WS (m/s)	%
🟥	≥ 10.0	0.00
🟧	8.0-10.0	0.00
🟨	5.5-8.0	0.00
🟩	3.3-5.5	16.67
🟦	1.7-3.3	37.50
▨	0.3-1.7	25.00
	Calms	20.83

Location : สำนักงานนิคมอุตสาหกรรมดับบลิวเอชเอตะวันออก (มาบตาพุด) (A1) (GPS 47P 0730907, 1405264)

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Approved by
Sarayuth Jittranont
Assistant General Manager

Analysis / Test Report

Client : WHA Eastern Industrial Estate Co., Ltd.
18, Pakornsongkrohraj Road, Tambol Huaypong, Amphur Muang, Rayong Thailand 21150

P/O :
Project Name : Monitoring
Project Location : WHA EIE

Lot ID: 268506
Date Received :Feb 03, 2026
Date Reported :Feb 06, 2026
Report Number :3496461-1

Sample Number	268506-2
Parameter	Wind Speed / Wind Direction
Location	วัดหนองแฟบ (A2) (GPS 47P 0729828, 1403318)
Sampling Date	Feb 02 - Feb 03, 2026
Sampling by	Anuwet Tema

Time	Feb 02 - Feb 03, 2026			-			-			-			-			-			-		
	WS (m/s)	WD (deg)		-	-		-	-		-	-		-	-		-	-		-	-	
11:00 AM - 12:00 PM	2.0	125.0	SE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12:00 PM - 01:00 PM	2.7	148.0	SSE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
01:00 PM - 02:00 PM	2.6	163.0	SSE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
02:00 PM - 03:00 PM	2.3	176.0	S	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
03:00 PM - 04:00 PM	1.4	175.0	S	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
04:00 PM - 05:00 PM	1.3	215.0	SW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
05:00 PM - 06:00 PM	1.1	149.0	SSE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
06:00 PM - 07:00 PM	2.0	146.0	SE																		
07:00 PM - 08:00 PM	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
08:00 PM - 09:00 PM	1.3	90.0	E	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
09:00 PM - 10:00 PM	1.8	112.0	ESE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10:00 PM - 11:00 PM	2.8	61.0	ENE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11:00 PM - 12:00 AM	0.4	315.0	NW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12:00 AM - 01:00 AM	0.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
01:00 AM - 02:00 AM	0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
02:00 AM - 03:00 AM	1.4	356.0	N	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
03:00 AM - 04:00 AM	0.9	59.0	ENE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
04:00 AM - 05:00 AM	1.9	9.0	N	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
05:00 AM - 06:00 AM	1.7	60.0	ENE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
06:00 AM - 07:00 AM	0.3	106.0	ESE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
07:00 AM - 08:00 AM	3.2	77.0	ENE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
08:00 AM - 09:00 AM	0.7	74.0	ENE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
09:00 AM - 10:00 AM	1.2	71.0	ENE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10:00 AM - 11:00 AM	0.9	78.0	ENE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Reference Method : Cup Anemometer & Anodized Aluminum Vane Method

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Approved by
Sarayuth Jittranont
Assistant General Manager

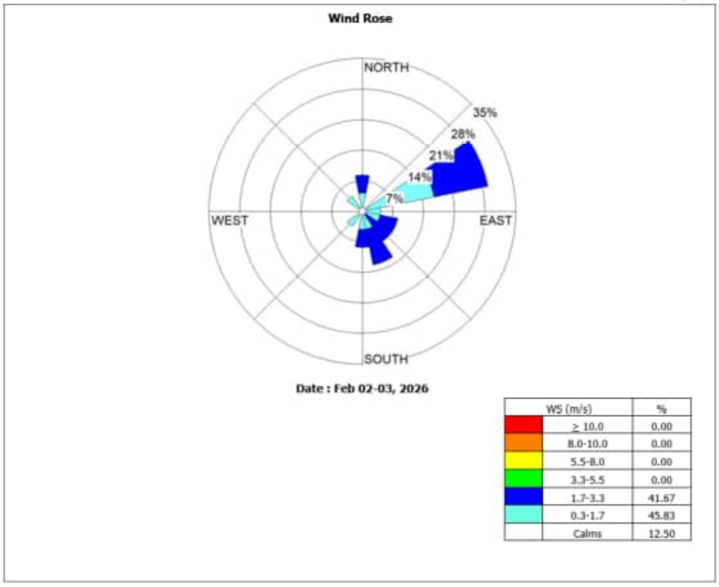
Analysis / Test Report

Client : WHA Eastern Industrial Estate Co., Ltd.
18, Pakornsongkrohraj Road, Tambol Huaypong, Amphur Muang, Rayong Thailand 21150

Lot ID: 268506
Date Received :Feb 03, 2026
Date Reported :Feb 06, 2026
Report Number :3496461-1

P/O :
Project Name : Monitoring
Project Location : WHA EIE

Wind Rose



Date : Feb 02-03, 2026

Location : วัดหนองแฟบ (A2) (GPS 47P 0729828, 1403318)

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

Approved by

Sarayuth Jittranont
Assistant General Manager

Analysis / Test Report

Client : WHA Eastern Industrial Estate Co., Ltd.
18, Pakornsongkrohraj Road, Tambol Huaypong, Amphur Muang, Rayong Thailand 21150

Lot ID: 268506
Date Received :Feb 03, 2026
Date Reported :Feb 06, 2026
Report Number :3496461-1

P/O :
Project Name : Monitoring
Project Location : WHA EIE

Sample Number 268506-3
Parameter Wind Speed / Wind Direction
Location วัดมาบชลูด (A3) (GPS 47P 0730826, 1407360)
Sampling Date Feb 02 - Feb 03, 2026
Sampling by Anuwet Tema

Time	Feb 02 - Feb 03, 2026			-			-			-			-			-			-		
	WS (m/s)	WD (deg)		-	-		-	-		-	-		-	-		-	-		-	-	
12:00 PM - 01:00 PM	1.2	10.0	N	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
01:00 PM - 02:00 PM	0.5	53.0	NE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
02:00 PM - 03:00 PM	5.1	87.0	E	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
03:00 PM - 04:00 PM	1.0	134.0	SE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
04:00 PM - 05:00 PM	2.5	98.0	E	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
05:00 PM - 06:00 PM	3.0	94.0	E	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
06:00 PM - 07:00 PM	0.7	155.0	SSE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
07:00 PM - 08:00 PM	0.0																				
08:00 PM - 09:00 PM	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
09:00 PM - 10:00 PM	1.1	359.0	N	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10:00 PM - 11:00 PM	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11:00 PM - 12:00 AM	0.6	359.0	N	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12:00 AM - 01:00 AM	0.6	354.0	N	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
01:00 AM - 02:00 AM	0.8	351.0	N	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
02:00 AM - 03:00 AM	1.3	350.0	N	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
03:00 AM - 04:00 AM	0.9	0.0	N	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
04:00 AM - 05:00 AM	0.9	356.0	N	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
05:00 AM - 06:00 AM	0.4	355.0	N	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
06:00 AM - 07:00 AM	0.9	357.0	N	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
07:00 AM - 08:00 AM	1.5	0.0	N	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
08:00 AM - 09:00 AM	1.5	357.0	N	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
09:00 AM - 10:00 AM	2.2	334.0	NNW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10:00 AM - 11:00 AM	1.8	353.0	N	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11:00 AM - 12:00 PM	1.3	351.0	N	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Reference Method : Cup Anemometer & Anodized Aluminium Vane Method

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Approved by

Sarayuth Jittranont
Assistant General Manager

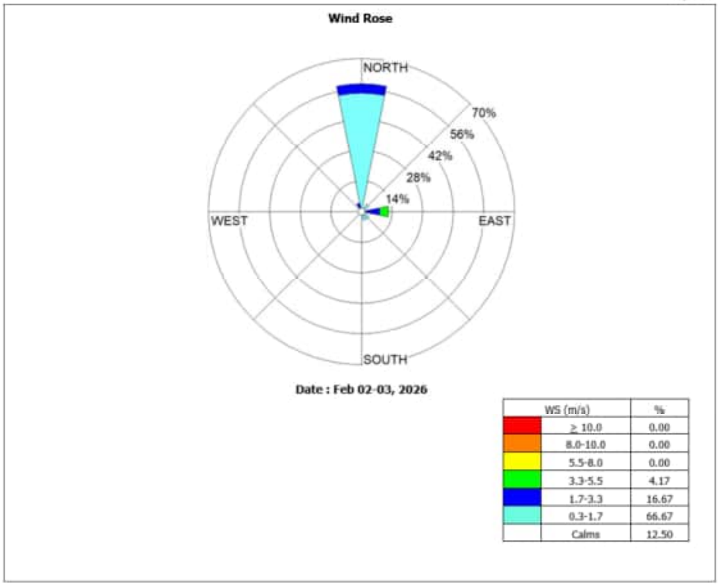
Analysis / Test Report

Client : WHA Eastern Industrial Estate Co., Ltd.
18, Pakornsongkrohraj Road, Tambol Huaypong, Amphur Muang, Rayong Thailand 21150

Lot ID: 268506
Date Received :Feb 03, 2026
Date Reported :Feb 06, 2026
Report Number :3496461-1

P/O :
Project Name : Monitoring
Project Location : WHA EIE

Wind Rose



Date : Feb 02-03, 2026

Location : วัดมาบชลูด (A3) (GPS 47P 0730826, 1407360)

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Sarayuth Jittranont
Assistant General Manager

Analysis / Test Report

Client : WHA Eastern Industrial Estate Co., Ltd.
18, Pakornsongkrohraj Road, Tambol Huaypong, Amphur Muang, Rayong Thailand 21150

Lot ID: 268501
Date Received :Feb 03, 2026
Date Reported :Feb 06, 2026
Report Number :3496455-1

P/O :
Project Name : Monitoring
Project Location : WHA EIE

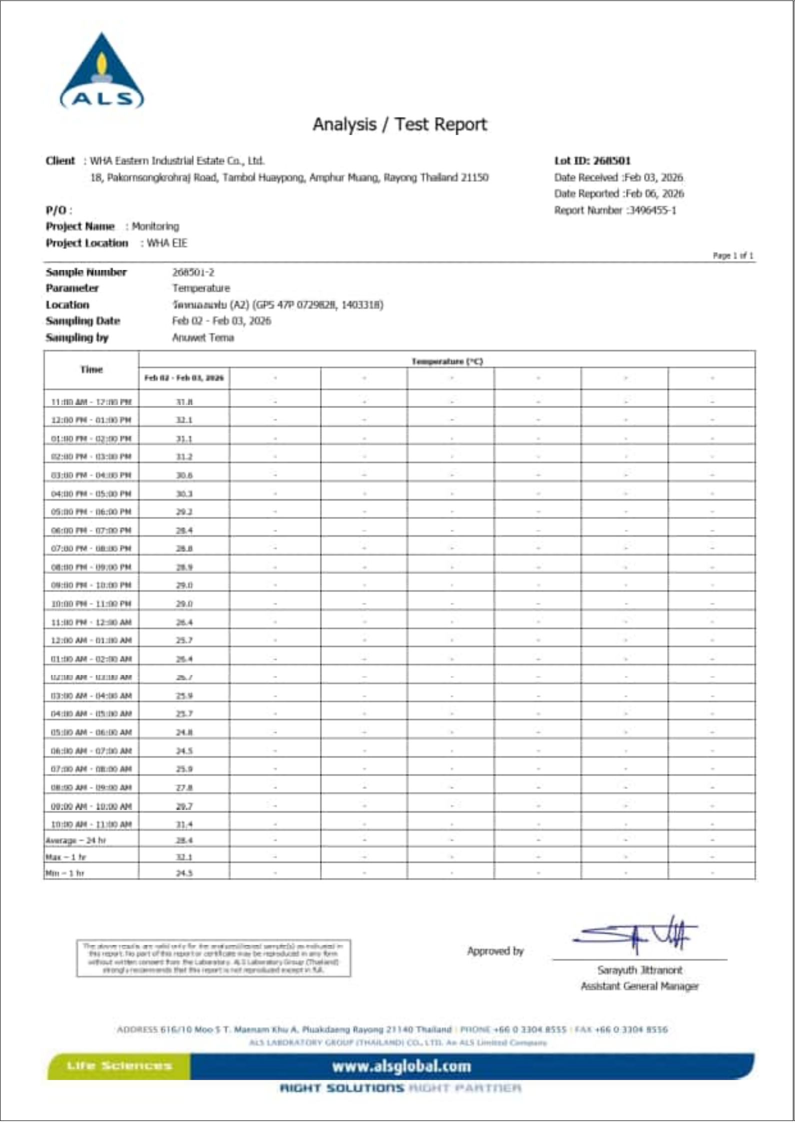
Sample Number 268501-1
Parameter Temperature
Location สำนักงานนิคมอุตสาหกรรมดับบลิวเอชเอตะวันออก (มาบตาพุด) (A1) (GPS 47P 0730907, 1405264)
Sampling Date Feb 02 - Feb 03, 2026
Sampling by Anuwet Tema

Time	Temperature (°C)						
	Feb 02 - Feb 03, 2026	-	-	-	-	-	-
10:00 AM - 11:00 AM	30.3	-	-	-	-	-	-
11:00 AM - 12:00 PM	30.6	-	-	-	-	-	-
12:00 PM - 01:00 PM	31.8	-	-	-	-	-	-
01:00 PM - 02:00 PM	30.6	-	-	-	-	-	-
02:00 PM - 03:00 PM	30.4	-	-	-	-	-	-
03:00 PM - 04:00 PM	30.8	-	-	-	-	-	-
04:00 PM - 05:00 PM	30.6	-	-	-	-	-	-
05:00 PM - 06:00 PM	29.5	-	-	-	-	-	-
06:00 PM - 07:00 PM	28.7	-	-	-	-	-	-
07:00 PM - 08:00 PM	28.3	-	-	-	-	-	-
08:00 PM - 09:00 PM	27.5	-	-	-	-	-	-
09:00 PM - 10:00 PM	28.1	-	-	-	-	-	-
10:00 PM - 11:00 PM	27.7	-	-	-	-	-	-
11:00 PM - 12:00 AM	25.7	-	-	-	-	-	-
12:00 AM - 01:00 AM	26.2	-	-	-	-	-	-
01:00 AM - 02:00 AM	26.0	-	-	-	-	-	-
02:00 AM - 03:00 AM	25.5	-	-	-	-	-	-
03:00 AM - 04:00 AM	25.1	-	-	-	-	-	-
04:00 AM - 05:00 AM	24.4	-	-	-	-	-	-
05:00 AM - 06:00 AM	23.9	-	-	-	-	-	-
06:00 AM - 07:00 AM	23.9	-	-	-	-	-	-
07:00 AM - 08:00 AM	24.3	-	-	-	-	-	-
08:00 AM - 09:00 AM	25.7	-	-	-	-	-	-
09:00 AM - 10:00 AM	26.1	-	-	-	-	-	-
Average – 24 hr	27.6	-	-	-	-	-	-
Max – 1 hr	31.6	-	-	-	-	-	-
Min – 1 hr	23.9	-	-	-	-	-	-

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

Approved by

Sarayuth Jittranont
Assistant General Manager



Analysis / Test Report

Client : WHA Eastern Industrial Estate Co., Ltd.
18, Pakornsongkrohraj Road, Tambol Huaypong, Amphur Muang, Rayong Thailand 21150

P/O :
Project Name : Monitoring
Project Location : WHA EIE

Lot ID: 268501
Date Received :Feb 03, 2026
Date Reported :Feb 06, 2026
Report Number :3496455-1

Sample Number 268501-2
Parameter Temperature
Location วัดหนองแฟบ (A2) (GPS 47P 0729828, 1403318)
Sampling Date Feb 02 - Feb 03, 2026
Sampling by Anuwet Tema

Time	Temperature (°C)							
	Feb 02 - Feb 03, 2026	-	-	-	-	-	-	-
11:00 AM - 12:00 PM	31.8	-	-	-	-	-	-	-
12:00 PM - 01:00 PM	32.1	-	-	-	-	-	-	-
01:00 PM - 02:00 PM	31.1	-	-	-	-	-	-	-
02:00 PM - 03:00 PM	31.2	-	-	-	-	-	-	-
03:00 PM - 04:00 PM	30.6	-	-	-	-	-	-	-
04:00 PM - 05:00 PM	30.3	-	-	-	-	-	-	-
05:00 PM - 06:00 PM	29.2	-	-	-	-	-	-	-
06:00 PM - 07:00 PM	28.4	-	-	-	-	-	-	-
07:00 PM - 08:00 PM	28.8	-	-	-	-	-	-	-
08:00 PM - 09:00 PM	28.9	-	-	-	-	-	-	-
09:00 PM - 10:00 PM	29.0	-	-	-	-	-	-	-
10:00 PM - 11:00 PM	29.0	-	-	-	-	-	-	-
11:00 PM - 12:00 AM	26.4	-	-	-	-	-	-	-
12:00 AM - 01:00 AM	25.7	-	-	-	-	-	-	-
01:00 AM - 02:00 AM	26.4	-	-	-	-	-	-	-
02:00 AM - 03:00 AM	26.7	-	-	-	-	-	-	-
03:00 AM - 04:00 AM	25.9	-	-	-	-	-	-	-
04:00 AM - 05:00 AM	25.7	-	-	-	-	-	-	-
05:00 AM - 06:00 AM	24.8	-	-	-	-	-	-	-
06:00 AM - 07:00 AM	24.5	-	-	-	-	-	-	-
07:00 AM - 08:00 AM	25.9	-	-	-	-	-	-	-
08:00 AM - 09:00 AM	27.8	-	-	-	-	-	-	-
09:00 AM - 10:00 AM	29.7	-	-	-	-	-	-	-
10:00 AM - 11:00 AM	31.4	-	-	-	-	-	-	-
Average – 24 hr	28.4	-	-	-	-	-	-	-
Max – 1 hr	32.1	-	-	-	-	-	-	-
Min – 1 hr	24.5	-	-	-	-	-	-	-

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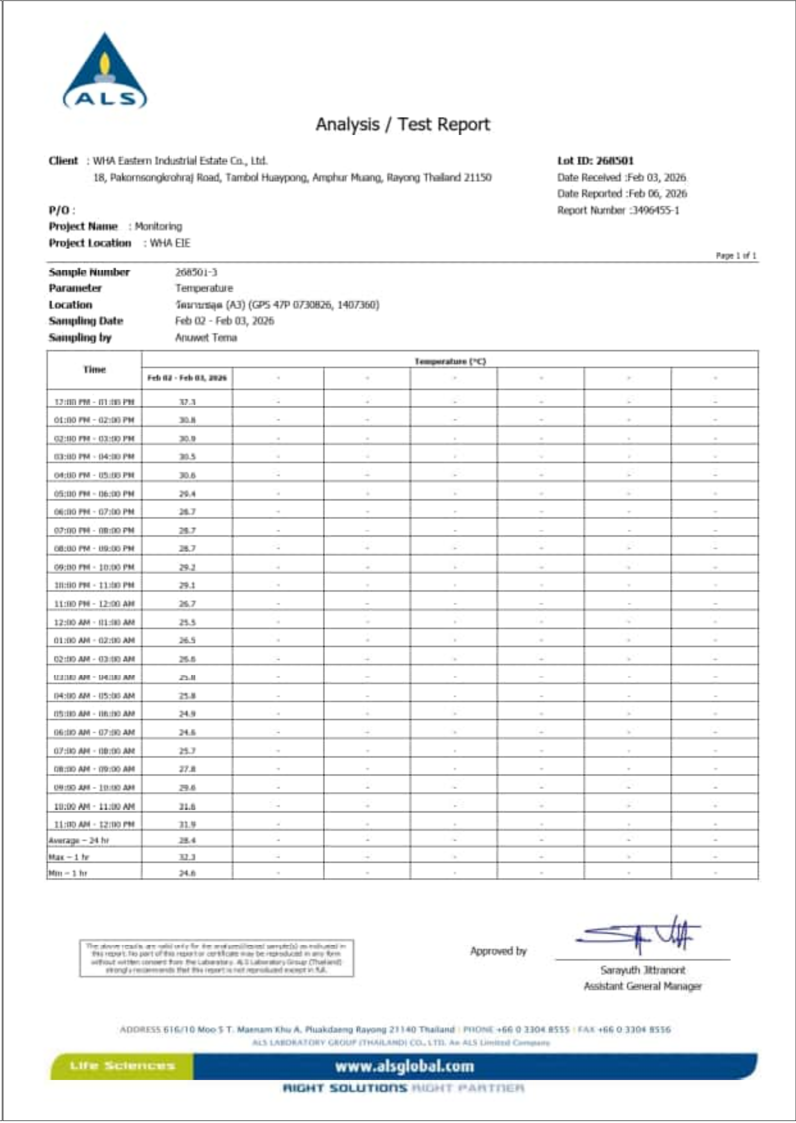
Assistant General Manager



Analysis / Test Report

Client : WHA Eastern Industrial Estate Co., Ltd.
18, Pakornsongkrohraj Road, Tambol Huaypong, Amphur Muang, Rayong Thailand 21150

P/O :
Project Name : Monitoring
Project Location : WHA EIE

Lot ID: 268501
Date Received :Feb 03, 2026
Date Reported :Feb 06, 2026
Report Number :3496455-1

Sample Number 268501-3
Parameter Temperature
Location วัดมาบชลูด (A3) (GPS 47P 0730826, 1407360)
Sampling Date Feb 02 - Feb 03, 2026
Sampling by Anuwet Tema

Time	Temperature (°C)							
	Feb 02 - Feb 03, 2026	-	-	-	-	-	-	-
12:00 PM - 01:00 PM	32.3	-	-	-	-	-	-	-
01:00 PM - 02:00 PM	30.8	-	-	-	-	-	-	-
02:00 PM - 03:00 PM	30.9	-	-	-	-	-	-	-
03:00 PM - 04:00 PM	30.5	-	-	-	-	-	-	-
04:00 PM - 05:00 PM	30.6	-	-	-	-	-	-	-
05:00 PM - 06:00 PM	29.4	-	-	-	-	-	-	-
06:00 PM - 07:00 PM	28.7	-	-	-	-	-	-	-
07:00 PM - 08:00 PM	28.7	-	-	-	-	-	-	-
08:00 PM - 09:00 PM	28.7	-	-	-	-	-	-	-
09:00 PM - 10:00 PM	29.2	-	-	-	-	-	-	-
10:00 PM - 11:00 PM	29.1	-	-	-	-	-	-	-
11:00 PM - 12:00 AM	26.7	-	-	-	-	-	-	-
12:00 AM - 01:00 AM	25.5	-	-	-	-	-	-	-
01:00 AM - 02:00 AM	26.5	-	-	-	-	-	-	-
02:00 AM - 03:00 AM	26.6	-	-	-	-	-	-	-
03:00 AM - 04:00 AM	25.8	-	-	-	-	-	-	-
04:00 AM - 05:00 AM	25.8	-	-	-	-	-	-	-
05:00 AM - 06:00 AM	24.9	-	-	-	-	-	-	-
06:00 AM - 07:00 AM	24.6	-	-	-	-	-	-	-
07:00 AM - 08:00 AM	25.7	-	-	-	-	-	-	-
08:00 AM - 09:00 AM	27.8	-	-	-	-	-	-	-
09:00 AM - 10:00 AM	29.6	-	-	-	-	-	-	-
10:00 AM - 11:00 AM	31.6	-	-	-	-	-	-	-
11:00 AM - 12:00 PM	31.9	-	-	-	-	-	-	-
Average – 24 hr	28.4	-	-	-	-	-	-	-
Max – 1 hr	32.3	-	-	-	-	-	-	-
Min – 1 hr	24.6	-	-	-	-	-	-	-

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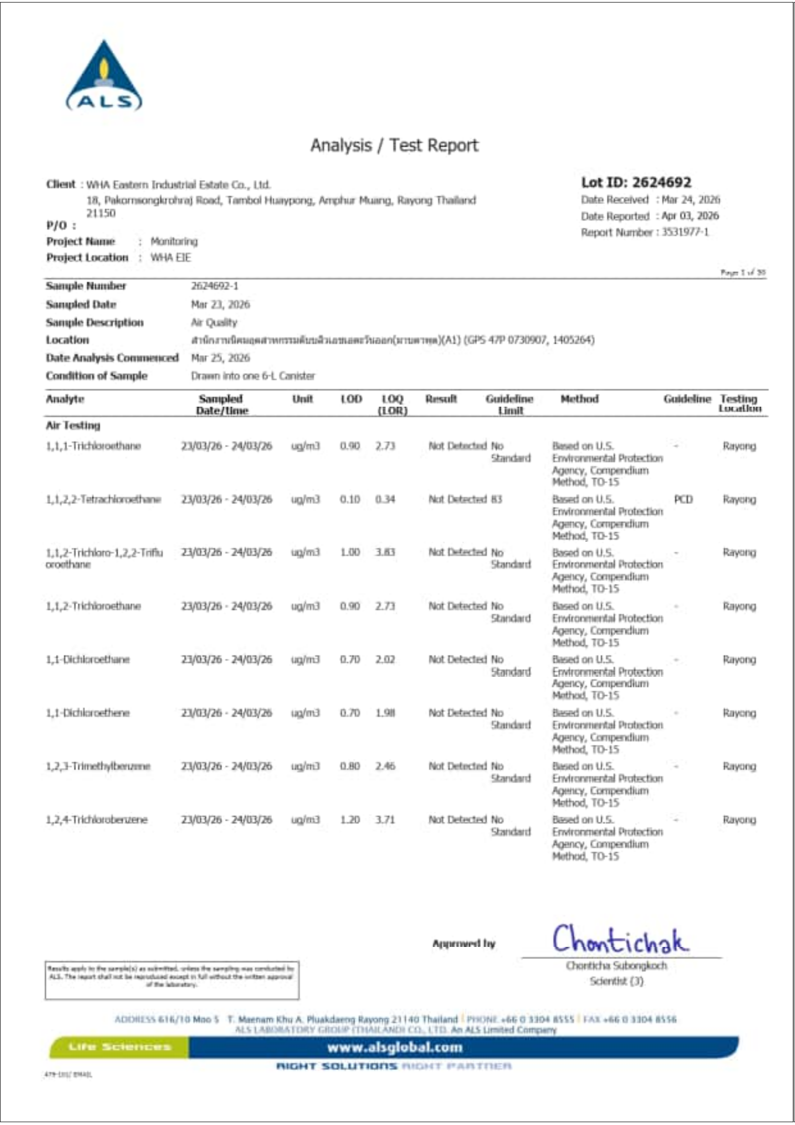
Assistant General Manager



Analysis / Test Report

Client : WHA Eastern Industrial Estate Co., Ltd.
18, Pakornsongkrohraj Road, Tambol Huaypong, Amphur Muang, Rayong Thailand
21150
P/O :
Project Name : Monitoring
Project Location : WHA EIE

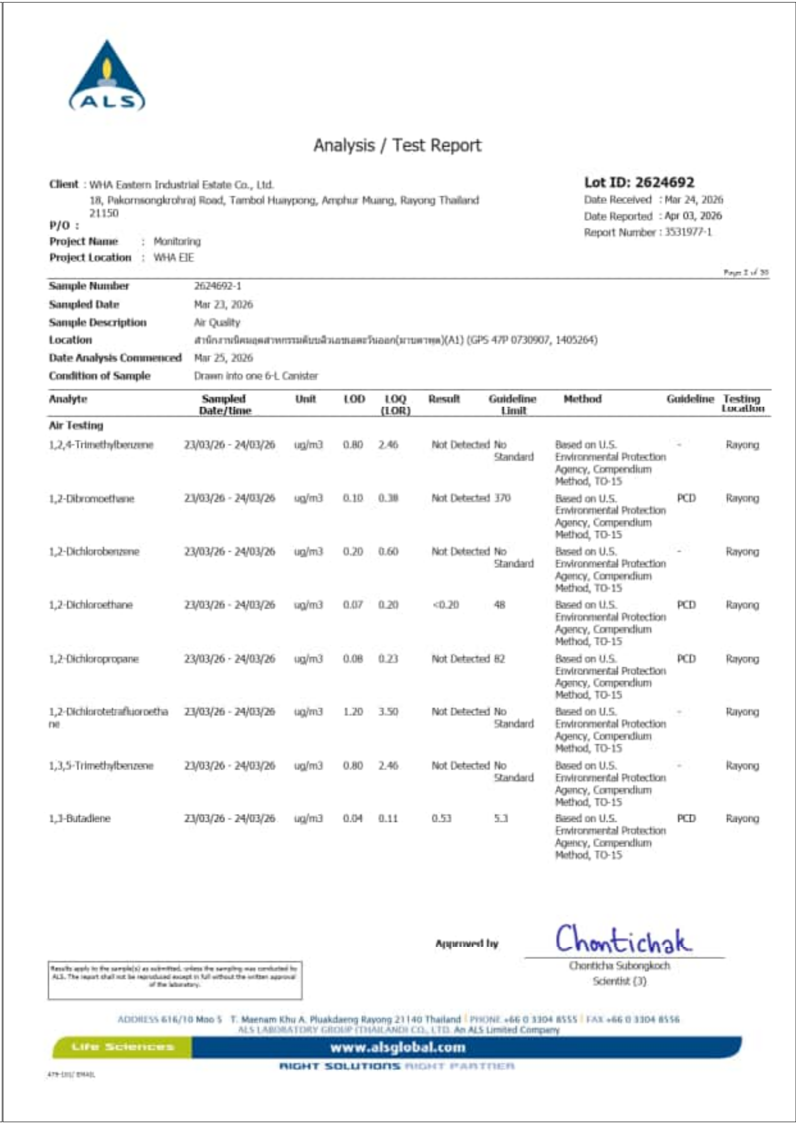
Lot ID: 2624692
Date Received : Mar 24, 2026
Date Reported : Apr 03, 2026
Report Number : 3531977-1

Sample Number 2624692-1
Sampled Date Mar 23, 2026
Sample Description Air Quality
Location สำนักงานนิคมอุตสาหกรรมดับบลิวเอชเอตะวันออก(มาบตาพุด)(A1) (GPS 47P 0730907, 1405264)
Date Analysis Commenced Mar 25, 2026
Condition of Sample Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
1,1,1-Trichloroethane	23/03/26 - 24/03/26	ug/m3	0.90	2.73	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
1,1,2,2-Tetrachloroethane	23/03/26 - 24/03/26	ug/m3	0.10	0.34	Not Detected	83	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong
1,1,2-Trichloro-1,2,2-Trifluoroethane	23/03/26 - 24/03/26	ug/m3	1.00	3.83	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
1,1,2-Trichloroethane	23/03/26 - 24/03/26	ug/m3	0.90	2.73	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
1,1-Dichloroethane	23/03/26 - 24/03/26	ug/m3	0.70	2.02	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
1,1-Dichloroethene	23/03/26 - 24/03/26	ug/m3	0.70	1.98	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
1,2,3-Trimethylbenzene	23/03/26 - 24/03/26	ug/m3	0.80	2.46	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
1,2,4-Trichlorobenzene	23/03/26 - 24/03/26	ug/m3	1.20	3.71	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong

Approved by Chontichak

Chonticha Subongkoch
Scientist (3)



Analysis / Test Report

Client : WHA Eastern Industrial Estate Co., Ltd.
18, Pakornsongkrohraj Road, Tambol Huaypong, Amphur Muang, Rayong Thailand
21150
P/O :
Project Name : Monitoring
Project Location : WHA EIE

Lot ID: 2624692
Date Received : Mar 24, 2026
Date Reported : Apr 03, 2026
Report Number : 3531977-1

Sample Number 2624692-1
Sampled Date Mar 23, 2026
Sample Description Air Quality
Location สำนักงานนิคมอุตสาหกรรมดับบลิวเอชเอตะวันออก(มาบตาพุด)(A1) (GPS 47P 0730907, 1405264)
Date Analysis Commenced Mar 25, 2026
Condition of Sample Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
1,2,4-Trimethylbenzene	23/03/26 - 24/03/26	ug/m3	0.80	2.46	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
1,2-Dibromoethane	23/03/26 - 24/03/26	ug/m3	0.10	0.38	Not Detected	370	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong
1,2-Dichlorobenzene	23/03/26 - 24/03/26	ug/m3	0.20	0.60	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
1,2-Dichloroethane	23/03/26 - 24/03/26	ug/m3	0.07	0.20	<0.20	48	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong
1,2-Dichloropropane	23/03/26 - 24/03/26	ug/m3	0.08	0.23	Not Detected	82	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong
1,2-Dichlorotetrafluoroethane	23/03/26 - 24/03/26	ug/m3	1.20	3.50	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
1,3,5-Trimethylbenzene	23/03/26 - 24/03/26	ug/m3	0.80	2.46	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
1,3-Butadiene	23/03/26 - 24/03/26	ug/m3	0.04	0.11	0.53	5.3	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong

Approved by Chontichak

Chonticha Subongkoch
Scientist (3)

Analysis / Test Report

Client : WHA Eastern Industrial Estate Co., Ltd.
18, Pakornsongkrohraj Road, Tambol Huaypong, Amphur Muang, Rayong Thailand
21150
P/O :
Project Name : Monitoring
Project Location : WHA EIE

Lot ID: 2624692
Date Received : Mar 24, 2026
Date Reported : Apr 03, 2026
Report Number : 3531977-1

Sample Number	2624692-1
Sampled Date	Mar 23, 2026
Sample Description	Air Quality
Location	สำนักงานนิคมอุตสาหกรรมดับบลิวเอชเอตะวันออก(มาบตาพุด)(A1) (GPS 47P 0730907, 1405264)
Date Analysis Commenced	Mar 25, 2026
Condition of Sample	Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
1,3-Dichlorobenzene	23/03/26 - 24/03/26	ug/m3	0.20	0.60	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
1,4-Dichlorobenzene	23/03/26 - 24/03/26	ug/m3	0.20	0.60	Not Detected	1100	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong
1,4-Dioxane	23/03/26 - 24/03/26	ug/m3	0.10	0.36	Not Detected	860	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong
1-Butanol	23/03/26 - 24/03/26	ug/m3	0.50	1.52	4.73	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
1-Propanol	23/03/26 - 24/03/26	ug/m3	0.40	1.23	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
2-Hexanone	23/03/26 - 24/03/26	ug/m3	0.70	2.05	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
2-Pentanone	23/03/26 - 24/03/26	ug/m3	0.60	1.76	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
2-Propanol	23/03/26 - 24/03/26	ug/m3	0.40	1.23	<1.23	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong

Approved by Chontichak
Chonticha Subongkoch
Scientist (3)

Analysis / Test Report

Client : WHA Eastern Industrial Estate Co., Ltd.
18, Pakornsongkrohraj Road, Tambol Huaypong, Amphur Muang, Rayong Thailand
21150
P/O :
Project Name : Monitoring
Project Location : WHA EIE

Lot ID: 2624692
Date Received : Mar 24, 2026
Date Reported : Apr 03, 2026
Report Number : 3531977-1

Sample Number	2624692-1
Sampled Date	Mar 23, 2026
Sample Description	Air Quality
Location	สำนักงานนิคมอุตสาหกรรมดับบลิวเอชเอตะวันออก(มาบตาพุด)(A1) (GPS 47P 0730907, 1405264)
Date Analysis Commenced	Mar 25, 2026
Condition of Sample	Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
3-Hexanone	23/03/26 - 24/03/26	ug/m3	0.70	2.05	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
3-Pentanone	23/03/26 - 24/03/26	ug/m3	0.60	1.76	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Acetaldehyde	23/03/26 - 24/03/26	ug/m3	0.05	0.18	1.59	860	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong
Acetone	23/03/26 - 24/03/26	ug/m3	0.08	0.24	13.92	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Acetonitrile	23/03/26 - 24/03/26	ug/m3	0.30	0.84	<0.84	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Acrolein	23/03/26 - 24/03/26	ug/m3	0.08	0.23	0.46	0.55	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong
Acrylonitrile	23/03/26 - 24/03/26	ug/m3	0.07	0.22	Not Detected	10	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong
Benzene	23/03/26 - 24/03/26	ug/m3	0.05	0.16	0.96	7.6	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong

Approved by Chontichak
Chonticha Subongkoch
Scientist (3)

Analysis / Test Report

Client : WHA Eastern Industrial Estate Co., Ltd.
18, Pakornsongkrohraj Road, Tambol Huaypong, Amphur Muang, Rayong Thailand
21150
P/O :
Project Name : Monitoring
Project Location : WHA EIE

Lot ID: 2624692
Date Received : Mar 24, 2026
Date Reported : Apr 03, 2026
Report Number : 3531977-1

Sample Number	2624692-1
Sampled Date	Mar 23, 2026
Sample Description	Air Quality
Location	สำนักงานนิคมอุตสาหกรรมดับบลิวเอชเอตะวันออก(มาบตาพุด)(A1) (GPS 47P 0730907, 1405264)
Date Analysis Commenced	Mar 25, 2026
Condition of Sample	Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Benzyl Chloride	23/03/26 - 24/03/26	ug/m3	0.17	0.52	<0.52	12	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong
Bromodichloromethane	23/03/26 - 24/03/26	ug/m3	1.00	3.35	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Bromoform	23/03/26 - 24/03/26	ug/m3	1.00	5.17	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Bromomethane	23/03/26 - 24/03/26	ug/m3	0.06	0.19	0.23	190	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong
Butanal	23/03/26 - 24/03/26	ug/m3	0.49	1.47	<1.47	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Carbon Disulfide	23/03/26 - 24/03/26	ug/m3	0.05	0.16	<0.16	100	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	NEB	Rayong
Carbon Tetrachloride	23/03/26 - 24/03/26	ug/m3	0.10	0.31	<0.31	150	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong
Chlorobenzene	23/03/26 - 24/03/26	ug/m3	0.80	2.30	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong

Approved by Chontichak
Chonticha Subongkoch
Scientist (3)

Analysis / Test Report

Client : WHA Eastern Industrial Estate Co., Ltd.
18, Pakornsongkrohraj Road, Tambol Huaypong, Amphur Muang, Rayong Thailand
21150
P/O :
Project Name : Monitoring
Project Location : WHA EIE

Lot ID: 2624692
Date Received : Mar 24, 2026
Date Reported : Apr 03, 2026
Report Number : 3531977-1

Sample Number	2624692-1
Sampled Date	Mar 23, 2026
Sample Description	Air Quality
Location	สำนักงานนิคมอุตสาหกรรมดับบลิวเอชเอตะวันออก(มาบตาพุด)(A1) (GPS 47P 0730907, 1405264)
Date Analysis Commenced	Mar 25, 2026
Condition of Sample	Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Chlorodifluoromethane (HCFC-22)	23/03/26 - 24/03/26	ug/m3	0.60	1.77	<1.77	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Chloroethane	23/03/26 - 24/03/26	ug/m3	0.40	1.32	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Chloroform	23/03/26 - 24/03/26	ug/m3	0.08	0.24	<0.24	57	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong
Chloromethane	23/03/26 - 24/03/26	ug/m3	0.30	1.03	1.78	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
cis-1,2-Dichloroethene	23/03/26 - 24/03/26	ug/m3	0.70	1.98	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
cis-1,3-Dichloropropene	23/03/26 - 24/03/26	ug/m3	0.80	2.27	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Cyclohexane	23/03/26 - 24/03/26	ug/m3	0.60	1.72	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Cyclopentane	23/03/26 - 24/03/26	ug/m3	0.50	1.43	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong

Approved by Chontichak
Chonticha Subongkoch
Scientist (3)

Analysis / Test Report

Client : WHA Eastern Industrial Estate Co., Ltd.
18, Pakornsongkrohraj Road, Tambol Huaypong, Amphur Muang, Rayong Thailand
21150
P/O :
Project Name : Monitoring
Project Location : WHA EIE

Lot ID: 2624692
Date Received : Mar 24, 2026
Date Reported : Apr 03, 2026
Report Number : 3531977-1

Sample Number 2624692-1
Sampled Date Mar 23, 2026
Sample Description Air Quality
Location สำนักงานนิคมอุตสาหกรรมดับบลิวเอชเอตะวันออก(มาบตาพุด)(A1) (GPS 47P 0730907, 1405264)
Date Analysis Commenced Mar 25, 2026
Condition of Sample Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Dichlorodifluoromethane (CFC-112)	23/03/26 - 24/03/26	ug/m3	0.80	2.47	<2.47	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Dichloromethane	23/03/26 - 24/03/26	ug/m3	0.06	0.17	0.90	210	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong
Ethanol	23/03/26 - 24/03/26	ug/m3	0.30	0.94	4.90	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Ethyl Benzene	23/03/26 - 24/03/26	ug/m3	0.70	2.17	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Hexanal	23/03/26 - 24/03/26	ug/m3	0.60	2.05	2.29	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Hexane	23/03/26 - 24/03/26	ug/m3	0.60	1.76	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Isobutene	23/03/26 - 24/03/26	ug/m3	0.40	1.15	<1.15	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Isoprene	23/03/26 - 24/03/26	ug/m3	0.50	1.39	<1.39	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong

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Chonticha Subongkoch
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Location สำนักงานนิคมอุตสาหกรรมดับบลิวเอชเอตะวันออก(มาบตาพุด)(A1) (GPS 47P 0730907, 1405264)
Date Analysis Commenced Mar 25, 2026
Condition of Sample Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
m,p-Xylene	23/03/26 - 24/03/26	ug/m3	1.50	4.34	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Methacrolein	23/03/26 - 24/03/26	ug/m3	0.50	1.43	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Methanol	23/03/26 - 24/03/26	ug/m3	0.20	0.66	5.35	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Methyl Ethyl Ketone	23/03/26 - 24/03/26	ug/m3	0.50	1.47	8.32	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Methyl Iodide	23/03/26 - 24/03/26	ug/m3	0.90	2.90	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Methyl Isobutyl Ketone	23/03/26 - 24/03/26	ug/m3	0.70	2.05	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Methyl tert butyl ether	23/03/26 - 24/03/26	ug/m3	0.60	1.80	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Methyl Vinyl Ketone	23/03/26 - 24/03/26	ug/m3	0.50	1.43	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong

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Sample Description Air Quality
Location สำนักงานนิคมอุตสาหกรรมดับบลิวเอชเอตะวันออก(มาบตาพุด)(A1) (GPS 47P 0730907, 1405264)
Date Analysis Commenced Mar 25, 2026
Condition of Sample Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
o-Xylene	23/03/26 - 24/03/26	ug/m3	0.70	2.17	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Pentanal	23/03/26 - 24/03/26	ug/m3	0.50	1.76	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Pentane	23/03/26 - 24/03/26	ug/m3	0.50	1.48	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Propanal	23/03/26 - 24/03/26	ug/m3	0.50	1.19	1.24	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Propene (Propylene)	23/03/26 - 24/03/26	ug/m3	0.30	0.86	2.65	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Styrene	23/03/26 - 24/03/26	ug/m3	0.70	2.13	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Tetrachloroethylene	23/03/26 - 24/03/26	ug/m3	0.11	0.34	Not Detected	400	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong
Toluene	23/03/26 - 24/03/26	ug/m3	0.60	1.88	<1.88	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong

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Sample Number 2624692-1
Sampled Date Mar 23, 2026
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Location สำนักงานนิคมอุตสาหกรรมดับบลิวเอชเอตะวันออก(มาบตาพุด)(A1) (GPS 47P 0730907, 1405264)
Date Analysis Commenced Mar 25, 2026
Condition of Sample Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
trans-1,2-Dichloroethene	23/03/26 - 24/03/26	ug/m3	0.70	1.98	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
trans-1,3-Dichloropropene	23/03/26 - 24/03/26	ug/m3	0.80	2.27	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Trichloroethylene	23/03/26 - 24/03/26	ug/m3	0.09	0.27	Not Detected	130	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong
Trichlorofluoromethane (F-11)	23/03/26 - 24/03/26	ug/m3	0.90	2.81	<2.81	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Vinyl Acetate	23/03/26 - 24/03/26	ug/m3	0.60	1.76	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Vinyl Chloride	23/03/26 - 24/03/26	ug/m3	0.04	0.13	Not Detected	20	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong

Guideline :
NEB : Notification of National Environment Board, B.E. 2560 (2017)
PCD : Notification of the Pollution Control Department, which was published in the Royal Government Gazette Vol. 126 Special Part 13 D dated January 27, B.E. 2552 (2009).
Sampled By : Apichart Wilars

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

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Project Name : Monitoring
Project Location : WHA EIE

Lot ID: 2624692
Date Received : Mar 24, 2026
Date Reported : Apr 03, 2026
Report Number : 3531977-1

Sample Number	2624692-2
Sampled Date	Mar 23, 2026
Sample Description	Air Quality
Location	วัดหนองแฟบ(A2) (GPS 47P 0729828, 1403318)
Date Analysis Commenced	Mar 25, 2026
Condition of Sample	Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
1,1,1-Trichloroethane	23/03/26 - 24/03/26	ug/m3	0.90	2.73	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
1,1,2,2-Tetrachloroethane	23/03/26 - 24/03/26	ug/m3	0.10	0.34	Not Detected	83	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong
1,1,2-Trichloro-1,2,2-Trifluoroethane	23/03/26 - 24/03/26	ug/m3	1.00	3.83	<3.83	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
1,1,2-Trichloroethane	23/03/26 - 24/03/26	ug/m3	0.90	2.73	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
1,1-Dichloroethane	23/03/26 - 24/03/26	ug/m3	0.70	2.02	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
1,1-Dichloroethene	23/03/26 - 24/03/26	ug/m3	0.70	1.98	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
1,2,3-Trimethylbenzene	23/03/26 - 24/03/26	ug/m3	0.80	2.46	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
1,2,4-Trichlorobenzene	23/03/26 - 24/03/26	ug/m3	1.20	3.71	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong

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21150
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Project Name : Monitoring
Project Location : WHA EIE

Lot ID: 2624692
Date Received : Mar 24, 2026
Date Reported : Apr 03, 2026
Report Number : 3531977-1

Sample Number	2624692-2
Sampled Date	Mar 23, 2026
Sample Description	Air Quality
Location	วัดหนองแฟบ(A2) (GPS 47P 0729828, 1403318)
Date Analysis Commenced	Mar 25, 2026
Condition of Sample	Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
1,2,4-Trimethylbenzene	23/03/26 - 24/03/26	ug/m3	0.80	2.46	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
1,2-Dibromoethane	23/03/26 - 24/03/26	ug/m3	0.10	0.38	Not Detected	370	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong
1,2-Dichlorobenzene	23/03/26 - 24/03/26	ug/m3	0.20	0.60	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
1,2-Dichloroethane	23/03/26 - 24/03/26	ug/m3	0.07	0.20	Not Detected	48	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong
1,2-Dichloropropane	23/03/26 - 24/03/26	ug/m3	0.08	0.23	Not Detected	82	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong
1,2-Dichlorotetrafluoroethane	23/03/26 - 24/03/26	ug/m3	1.20	3.50	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
1,3,5-Trimethylbenzene	23/03/26 - 24/03/26	ug/m3	0.80	2.46	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
1,3-Butadiene	23/03/26 - 24/03/26	ug/m3	0.04	0.11	0.13	5.3	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong

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Date Received : Mar 24, 2026
Date Reported : Apr 03, 2026
Report Number : 3531977-1

Sample Number	2624692-2
Sampled Date	Mar 23, 2026
Sample Description	Air Quality
Location	วัดหนองแฟบ(A2) (GPS 47P 0729828, 1403318)
Date Analysis Commenced	Mar 25, 2026
Condition of Sample	Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
1,3-Dichlorobenzene	23/03/26 - 24/03/26	ug/m3	0.20	0.60	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
1,4-Dichlorobenzene	23/03/26 - 24/03/26	ug/m3	0.20	0.60	Not Detected	1100	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong
1,4-Dioxane	23/03/26 - 24/03/26	ug/m3	0.10	0.36	Not Detected	860	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong
1-Butanol	23/03/26 - 24/03/26	ug/m3	0.50	1.52	1.70	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
1-Propanol	23/03/26 - 24/03/26	ug/m3	0.40	1.23	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
2-Hexanone	23/03/26 - 24/03/26	ug/m3	0.70	2.05	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
2-Pentanone	23/03/26 - 24/03/26	ug/m3	0.60	1.76	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
2-Propanol	23/03/26 - 24/03/26	ug/m3	0.40	1.23	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong

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Date Received : Mar 24, 2026
Date Reported : Apr 03, 2026
Report Number : 3531977-1

Sample Number	2624692-2
Sampled Date	Mar 23, 2026
Sample Description	Air Quality
Location	วัดหนองแฟบ(A2) (GPS 47P 0729828, 1403318)
Date Analysis Commenced	Mar 25, 2026
Condition of Sample	Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
3-Hexanone	23/03/26 - 24/03/26	ug/m3	0.70	2.05	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
3-Pentanone	23/03/26 - 24/03/26	ug/m3	0.60	1.76	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Acetaldehyde	23/03/26 - 24/03/26	ug/m3	0.05	0.18	1.48	860	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong
Acetone	23/03/26 - 24/03/26	ug/m3	0.08	0.24	8.17	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Acetonitrile	23/03/26 - 24/03/26	ug/m3	0.30	0.84	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Acrolein	23/03/26 - 24/03/26	ug/m3	0.08	0.23	0.32	0.55	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong
Acrylonitrile	23/03/26 - 24/03/26	ug/m3	0.07	0.22	Not Detected	10	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong
Benzene	23/03/26 - 24/03/26	ug/m3	0.05	0.16	<0.16	7.6	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong

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Sample Number	2624692-2
Sampled Date	Mar 23, 2026
Sample Description	Air Quality
Location	วัดหนองแฟบ(A2) (GPS 47P 0729828, 1403318)
Date Analysis Commenced	Mar 25, 2026
Condition of Sample	Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Benzyl Chloride	23/03/26 - 24/03/26	ug/m3	0.17	0.52	Not Detected	12	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong
Bromodichloromethane	23/03/26 - 24/03/26	ug/m3	1.00	3.35	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Bromoform	23/03/26 - 24/03/26	ug/m3	1.00	5.17	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Bromomethane	23/03/26 - 24/03/26	ug/m3	0.06	0.19	<0.19	190	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong
Butanal	23/03/26 - 24/03/26	ug/m3	0.49	1.47	<1.47	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Carbon Disulfide	23/03/26 - 24/03/26	ug/m3	0.05	0.16	<0.16	100	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	NEB	Rayong
Carbon Tetrachloride	23/03/26 - 24/03/26	ug/m3	0.10	0.31	<0.31	150	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong
Chlorobenzene	23/03/26 - 24/03/26	ug/m3	0.80	2.30	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong

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Date Received : Mar 24, 2026
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Report Number : 3531977-1

Sample Number	2624692-2
Sampled Date	Mar 23, 2026
Sample Description	Air Quality
Location	วัดหนองแฟบ(A2) (GPS 47P 0729828, 1403318)
Date Analysis Commenced	Mar 25, 2026
Condition of Sample	Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Chlorodifluoromethane (HCFC-22)	23/03/26 - 24/03/26	ug/m3	0.60	1.77	<1.77	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Chloroethane	23/03/26 - 24/03/26	ug/m3	0.40	1.32	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Chloroform	23/03/26 - 24/03/26	ug/m3	0.08	0.24	<0.24	57	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong
Chloromethane	23/03/26 - 24/03/26	ug/m3	0.30	1.03	2.40	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
cis-1,2-Dichloroethene	23/03/26 - 24/03/26	ug/m3	0.70	1.98	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
cis-1,3-Dichloropropene	23/03/26 - 24/03/26	ug/m3	0.80	2.27	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Cyclohexane	23/03/26 - 24/03/26	ug/m3	0.60	1.72	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Cyclopentane	23/03/26 - 24/03/26	ug/m3	0.50	1.43	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong

Approved by Chontichak
Chonticha Subongkoch
Scientist (3)

Analysis / Test Report

Client : WHA Eastern Industrial Estate Co., Ltd.
18, Pakornsongkrohraj Road, Tambol Huaypong, Amphur Muang, Rayong Thailand
21150
P/O :
Project Name : Monitoring
Project Location : WHA EIE

Lot ID: 2624692
Date Received : Mar 24, 2026
Date Reported : Apr 03, 2026
Report Number : 3531977-1

Sample Number	2624692-2
Sampled Date	Mar 23, 2026
Sample Description	Air Quality
Location	วัดหนองแฟบ(A2) (GPS 47P 0729828, 1403318)
Date Analysis Commenced	Mar 25, 2026
Condition of Sample	Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Dichlorodifluoromethane (CFC-112)	23/03/26 - 24/03/26	ug/m3	0.80	2.47	<2.47	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Dichloromethane	23/03/26 - 24/03/26	ug/m3	0.06	0.17	0.56	210	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong
Ethanol	23/03/26 - 24/03/26	ug/m3	0.30	0.94	9.23	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Ethyl Benzene	23/03/26 - 24/03/26	ug/m3	0.70	2.17	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Hexanal	23/03/26 - 24/03/26	ug/m3	0.60	2.05	<2.05	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Hexane	23/03/26 - 24/03/26	ug/m3	0.60	1.76	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Isobutene	23/03/26 - 24/03/26	ug/m3	0.40	1.15	<1.15	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Isoprene	23/03/26 - 24/03/26	ug/m3	0.50	1.39	<1.39	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong

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Analysis / Test Report

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21150
P/O :
Project Name : Monitoring
Project Location : WHA EIE

Lot ID: 2624692
Date Received : Mar 24, 2026
Date Reported : Apr 03, 2026
Report Number : 3531977-1

Sample Number	2624692-2
Sampled Date	Mar 23, 2026
Sample Description	Air Quality
Location	วัดหนองแฟบ(A2) (GPS 47P 0729828, 1403318)
Date Analysis Commenced	Mar 25, 2026
Condition of Sample	Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
m,p-Xylene	23/03/26 - 24/03/26	ug/m3	1.50	4.34	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Methacrolein	23/03/26 - 24/03/26	ug/m3	0.50	1.43	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Methanol	23/03/26 - 24/03/26	ug/m3	0.20	0.66	<0.66	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Methyl Ethyl Ketone	23/03/26 - 24/03/26	ug/m3	0.50	1.47	7.85	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Methyl Iodide	23/03/26 - 24/03/26	ug/m3	0.90	2.90	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Methyl Isobutyl Ketone	23/03/26 - 24/03/26	ug/m3	0.70	2.05	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Methyl tert butyl ether	23/03/26 - 24/03/26	ug/m3	0.60	1.80	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Methyl Vinyl Ketone	23/03/26 - 24/03/26	ug/m3	0.50	1.43	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong

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Project Location : WHA EIE

Lot ID: 2624692
Date Received : Mar 24, 2026
Date Reported : Apr 03, 2026
Report Number : 3531977-1

Sample Number 2624692-2
Sampled Date Mar 23, 2026
Sample Description Air Quality
Location วัดหนองแฟบ(A2) (GPS 47P 0729828, 1403318)
Date Analysis Commenced Mar 25, 2026
Condition of Sample Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
o-Xylene	23/03/26 - 24/03/26	ug/m3	0.70	2.17	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Pentanal	23/03/26 - 24/03/26	ug/m3	0.50	1.76	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Pentane	23/03/26 - 24/03/26	ug/m3	0.50	1.48	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Propanal	23/03/26 - 24/03/26	ug/m3	0.50	1.19	1.57	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Propene (Propylene)	23/03/26 - 24/03/26	ug/m3	0.30	0.86	<0.86	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Styrene	23/03/26 - 24/03/26	ug/m3	0.70	2.13	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Tetrachloroethylene	23/03/26 - 24/03/26	ug/m3	0.11	0.34	Not Detected	400	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong
Toluene	23/03/26 - 24/03/26	ug/m3	0.60	1.88	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong

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Date Received : Mar 24, 2026
Date Reported : Apr 03, 2026
Report Number : 3531977-1

Sample Number 2624692-2
Sampled Date Mar 23, 2026
Sample Description Air Quality
Location วัดหนองแฟบ(A2) (GPS 47P 0729828, 1403318)
Date Analysis Commenced Mar 25, 2026
Condition of Sample Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
trans-1,2-Dichloroethene	23/03/26 - 24/03/26	ug/m3	0.70	1.98	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
trans-1,3-Dichloropropene	23/03/26 - 24/03/26	ug/m3	0.80	2.27	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Trichloroethylene	23/03/26 - 24/03/26	ug/m3	0.09	0.27	Not Detected	130	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong
Trichlorofluoromethane (F-11)	23/03/26 - 24/03/26	ug/m3	0.90	2.81	<2.81	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Vinyl Acetate	23/03/26 - 24/03/26	ug/m3	0.60	1.76	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Vinyl Chloride	23/03/26 - 24/03/26	ug/m3	0.04	0.13	Not Detected	20	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong

Guideline :
NEB : Notification of National Environment Board, B.E. 2560 (2017)
PCD : Notification of the Pollution Control Department, which was published in the Royal Government Gazette Vol. 126 Special Part 13 D dated January 27, B.E. 2552 (2009).
Sampled By : Apichart Wilars

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

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Analysis / Test Report

Client : WHA Eastern Industrial Estate Co., Ltd.
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21150
P/O :
Project Name : Monitoring
Project Location : WHA EIE

Lot ID: 2624692
Date Received : Mar 24, 2026
Date Reported : Apr 03, 2026
Report Number : 3531977-1

Sample Number 2624692-3
Sampled Date Mar 23, 2026
Sample Description Air Quality
Location วัดมาบชลูด(A3) (GPS 47P 0730826, 1407360)
Date Analysis Commenced Mar 25, 2026
Condition of Sample Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
1,1,1-Trichloroethane	23/03/26 - 24/03/26	ug/m3	0.90	2.73	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
1,1,2,2-Tetrachloroethane	23/03/26 - 24/03/26	ug/m3	0.10	0.34	Not Detected	83	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong
1,1,2-Trichloro-1,2,2-Trifluoroethane	23/03/26 - 24/03/26	ug/m3	1.00	3.83	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
1,1,2-Trichloroethane	23/03/26 - 24/03/26	ug/m3	0.90	2.73	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
1,1-Dichloroethane	23/03/26 - 24/03/26	ug/m3	0.70	2.02	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
1,1-Dichloroethene	23/03/26 - 24/03/26	ug/m3	0.70	1.98	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
1,2,3-Trimethylbenzene	23/03/26 - 24/03/26	ug/m3	0.80	2.46	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
1,2,4-Trichlorobenzene	23/03/26 - 24/03/26	ug/m3	1.20	3.71	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong

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Analysis / Test Report

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21150
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Project Location : WHA EIE

Lot ID: 2624692
Date Received : Mar 24, 2026
Date Reported : Apr 03, 2026
Report Number : 3531977-1

Sample Number 2624692-3
Sampled Date Mar 23, 2026
Sample Description Air Quality
Location วัดมาบชลูด(A3) (GPS 47P 0730826, 1407360)
Date Analysis Commenced Mar 25, 2026
Condition of Sample Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
1,2,4-Trimethylbenzene	23/03/26 - 24/03/26	ug/m3	0.80	2.46	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
1,2-Dibromoethane	23/03/26 - 24/03/26	ug/m3	0.10	0.38	Not Detected	370	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong
1,2-Dichlorobenzene	23/03/26 - 24/03/26	ug/m3	0.20	0.60	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
1,2-Dichloroethane	23/03/26 - 24/03/26	ug/m3	0.07	0.20	<0.20	48	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong
1,2-Dichloropropane	23/03/26 - 24/03/26	ug/m3	0.08	0.23	<0.23	82	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong
1,2-Dichlorotetrafluoroethane	23/03/26 - 24/03/26	ug/m3	1.20	3.50	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
1,3,5-Trimethylbenzene	23/03/26 - 24/03/26	ug/m3	0.80	2.46	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
1,3-Butadiene	23/03/26 - 24/03/26	ug/m3	0.04	0.11	0.18	5.3	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong

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Analysis / Test Report

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Lot ID: 2624692
Date Received : Mar 24, 2026
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Sample Number	2624692-3
Sampled Date	Mar 23, 2026
Sample Description	Air Quality
Location	วัดมาบชลูด(A3) (GPS 47P 0730826, 1407360)
Date Analysis Commenced	Mar 25, 2026
Condition of Sample	Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
1,3-Dichlorobenzene	23/03/26 - 24/03/26	ug/m3	0.20	0.60	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
1,4-Dichlorobenzene	23/03/26 - 24/03/26	ug/m3	0.20	0.60	Not Detected	1100	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong
1,4-Dioxane	23/03/26 - 24/03/26	ug/m3	0.10	0.36	Not Detected	860	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong
1-Butanol	23/03/26 - 24/03/26	ug/m3	0.50	1.52	2.43	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
1-Propanol	23/03/26 - 24/03/26	ug/m3	0.40	1.23	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
2-Hexanone	23/03/26 - 24/03/26	ug/m3	0.70	2.05	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
2-Pentanone	23/03/26 - 24/03/26	ug/m3	0.60	1.76	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
2-Propanol	23/03/26 - 24/03/26	ug/m3	0.40	1.23	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong

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Lot ID: 2624692
Date Received : Mar 24, 2026
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Report Number : 3531977-1

Sample Number	2624692-3
Sampled Date	Mar 23, 2026
Sample Description	Air Quality
Location	วัดมาบชลูด(A3) (GPS 47P 0730826, 1407360)
Date Analysis Commenced	Mar 25, 2026
Condition of Sample	Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
3-Hexanone	23/03/26 - 24/03/26	ug/m3	0.70	2.05	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
3-Pentanone	23/03/26 - 24/03/26	ug/m3	0.60	1.76	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Acetaldehyde	23/03/26 - 24/03/26	ug/m3	0.05	0.18	1.44	860	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong
Acetone	23/03/26 - 24/03/26	ug/m3	0.08	0.24	7.27	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Acetonitrile	23/03/26 - 24/03/26	ug/m3	0.30	0.84	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Acrolein	23/03/26 - 24/03/26	ug/m3	0.08	0.23	0.32	0.55	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong
Acrylonitrile	23/03/26 - 24/03/26	ug/m3	0.07	0.22	Not Detected	10	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong
Benzene	23/03/26 - 24/03/26	ug/m3	0.05	0.16	0.45	7.6	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong

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Date Received : Mar 24, 2026
Date Reported : Apr 03, 2026
Report Number : 3531977-1

Sample Number	2624692-3
Sampled Date	Mar 23, 2026
Sample Description	Air Quality
Location	วัดมาบชลูด(A3) (GPS 47P 0730826, 1407360)
Date Analysis Commenced	Mar 25, 2026
Condition of Sample	Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Benzyl Chloride	23/03/26 - 24/03/26	ug/m3	0.17	0.52	Not Detected	12	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong
Bromodichloromethane	23/03/26 - 24/03/26	ug/m3	1.00	3.35	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Bromoform	23/03/26 - 24/03/26	ug/m3	1.00	5.17	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Bromomethane	23/03/26 - 24/03/26	ug/m3	0.06	0.19	0.39	190	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong
Butanal	23/03/26 - 24/03/26	ug/m3	0.49	1.47	<1.47	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Carbon Disulfide	23/03/26 - 24/03/26	ug/m3	0.05	0.16	<0.16	100	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	NEB	Rayong
Carbon Tetrachloride	23/03/26 - 24/03/26	ug/m3	0.10	0.31	0.63	150	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong
Chlorobenzene	23/03/26 - 24/03/26	ug/m3	0.80	2.30	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong

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Date Received : Mar 24, 2026
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Report Number : 3531977-1

Sample Number	2624692-3
Sampled Date	Mar 23, 2026
Sample Description	Air Quality
Location	วัดมาบชลูด(A3) (GPS 47P 0730826, 1407360)
Date Analysis Commenced	Mar 25, 2026
Condition of Sample	Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Chlorodifluoromethane (HCFC-22)	23/03/26 - 24/03/26	ug/m3	0.60	1.77	<1.77	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Chloroethane	23/03/26 - 24/03/26	ug/m3	0.40	1.32	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Chloroform	23/03/26 - 24/03/26	ug/m3	0.08	0.24	0.29	57	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong
Chloromethane	23/03/26 - 24/03/26	ug/m3	0.30	1.03	2.15	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
cis-1,2-Dichloroethene	23/03/26 - 24/03/26	ug/m3	0.70	1.98	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
cis-1,3-Dichloropropene	23/03/26 - 24/03/26	ug/m3	0.80	2.27	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Cyclohexane	23/03/26 - 24/03/26	ug/m3	0.60	1.72	5.51	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Cyclopentane	23/03/26 - 24/03/26	ug/m3	0.50	1.43	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong

Approved by Chontichak
Chonticha Subongkoch
Scientist (3)

Analysis / Test Report

Client : WHA Eastern Industrial Estate Co., Ltd.
18, Pakornsongkrohraj Road, Tambol Huaypong, Amphur Muang, Rayong Thailand
21150
P/O :
Project Name : Monitoring
Project Location : WHA EIE

Lot ID: 2624692
Date Received : Mar 24, 2026
Date Reported : Apr 03, 2026
Report Number : 3531977-1

Sample Number	2624692-3
Sampled Date	Mar 23, 2026
Sample Description	Air Quality
Location	วัดมาบชลูด(A3) (GPS 47P 0730826, 1407360)
Date Analysis Commenced	Mar 25, 2026
Condition of Sample	Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Dichlorodifluoromethane (CFC-112)	23/03/26 - 24/03/26	ug/m3	0.80	2.47	<2.47	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Dichloromethane	23/03/26 - 24/03/26	ug/m3	0.06	0.17	0.56	210	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong
Ethanol	23/03/26 - 24/03/26	ug/m3	0.30	0.94	3.96	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Ethyl Benzene	23/03/26 - 24/03/26	ug/m3	0.70	2.17	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Hexanal	23/03/26 - 24/03/26	ug/m3	0.60	2.05	<2.05	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Hexane	23/03/26 - 24/03/26	ug/m3	0.60	1.76	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Isobutene	23/03/26 - 24/03/26	ug/m3	0.40	1.15	<1.15	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Isoprene	23/03/26 - 24/03/26	ug/m3	0.50	1.39	<1.39	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong

Approved by Chontichak
Chonticha Subongkoch
Scientist (3)

Analysis / Test Report

Client : WHA Eastern Industrial Estate Co., Ltd.
18, Pakornsongkrohraj Road, Tambol Huaypong, Amphur Muang, Rayong Thailand
21150
P/O :
Project Name : Monitoring
Project Location : WHA EIE

Lot ID: 2624692
Date Received : Mar 24, 2026
Date Reported : Apr 03, 2026
Report Number : 3531977-1

Sample Number	2624692-3
Sampled Date	Mar 23, 2026
Sample Description	Air Quality
Location	วัดมาบชลูด(A3) (GPS 47P 0730826, 1407360)
Date Analysis Commenced	Mar 25, 2026
Condition of Sample	Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
m,p-Xylene	23/03/26 - 24/03/26	ug/m3	1.50	4.34	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Methacrolein	23/03/26 - 24/03/26	ug/m3	0.50	1.43	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Methanol	23/03/26 - 24/03/26	ug/m3	0.20	0.66	5.79	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Methyl Ethyl Ketone	23/03/26 - 24/03/26	ug/m3	0.50	1.47	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Methyl Iodide	23/03/26 - 24/03/26	ug/m3	0.90	2.90	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Methyl Isobutyl Ketone	23/03/26 - 24/03/26	ug/m3	0.70	2.05	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Methyl tert butyl ether	23/03/26 - 24/03/26	ug/m3	0.60	1.80	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Methyl Vinyl Ketone	23/03/26 - 24/03/26	ug/m3	0.50	1.43	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong

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Analysis / Test Report

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21150
P/O :
Project Name : Monitoring
Project Location : WHA EIE

Lot ID: 2624692
Date Received : Mar 24, 2026
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Report Number : 3531977-1

Sample Number	2624692-3
Sampled Date	Mar 23, 2026
Sample Description	Air Quality
Location	วัดมาบชลูด(A3) (GPS 47P 0730826, 1407360)
Date Analysis Commenced	Mar 25, 2026
Condition of Sample	Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
o-Xylene	23/03/26 - 24/03/26	ug/m3	0.70	2.17	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Pentanal	23/03/26 - 24/03/26	ug/m3	0.50	1.76	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Pentane	23/03/26 - 24/03/26	ug/m3	0.50	1.48	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Propanal	23/03/26 - 24/03/26	ug/m3	0.50	1.19	<1.19	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Propene (Propylene)	23/03/26 - 24/03/26	ug/m3	0.30	0.86	3.03	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Styrene	23/03/26 - 24/03/26	ug/m3	0.70	2.13	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Tetrachloroethylene	23/03/26 - 24/03/26	ug/m3	0.11	0.34	Not Detected	400	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong
Toluene	23/03/26 - 24/03/26	ug/m3	0.60	1.88	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong

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Chonticha Subongkoch
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Analysis / Test Report

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18, Pakornsongkrohraj Road, Tambol Huaypong, Amphur Muang, Rayong Thailand
21150
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Project Name : Monitoring
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Lot ID: 2624692
Date Received : Mar 24, 2026
Date Reported : Apr 03, 2026
Report Number : 3531977-1

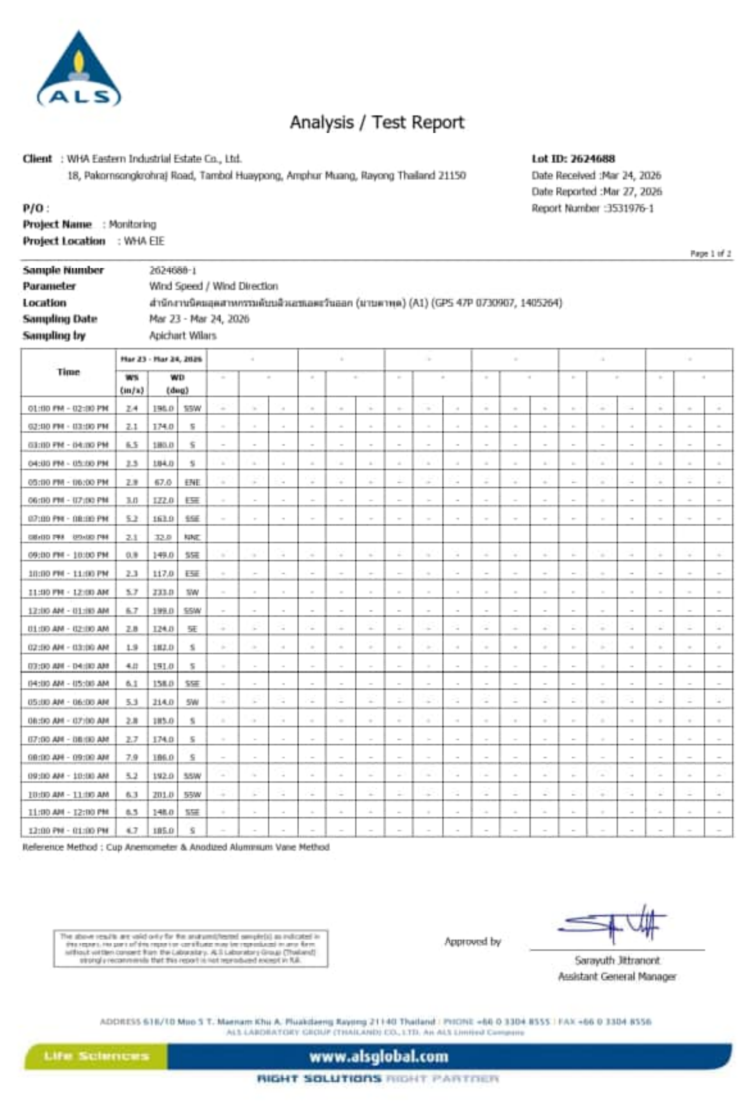
Sample Number	2624692-3
Sampled Date	Mar 23, 2026
Sample Description	Air Quality
Location	วัดมาบชลูด(A3) (GPS 47P 0730826, 1407360)
Date Analysis Commenced	Mar 25, 2026
Condition of Sample	Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
trans-1,2-Dichloroethene	23/03/26 - 24/03/26	ug/m3	0.70	1.98	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
trans-1,3-Dichloropropene	23/03/26 - 24/03/26	ug/m3	0.80	2.27	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Trichloroethylene	23/03/26 - 24/03/26	ug/m3	0.09	0.27	Not Detected	130	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong
Trichlorofluoromethane (F-11)	23/03/26 - 24/03/26	ug/m3	0.90	2.81	<2.81	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Vinyl Acetate	23/03/26 - 24/03/26	ug/m3	0.60	1.76	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Vinyl Chloride	23/03/26 - 24/03/26	ug/m3	0.04	0.13	Not Detected	20	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong

Guideline :
NEB : Notification of National Environment Board, B.E. 2560 (2017)
PCD : Notification of the Pollution Control Department, which was published in the Royal Government Gazette Vol. 126 Special Part 13 D dated January 27, B.E. 2552 (2009).
Sampled By : Apichart Wilars

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

Approved by Chontichak
Chonticha Subongkoch
Scientist (3)



Analysis / Test Report

Client : WHA Eastern Industrial Estate Co., Ltd.
18, Pakornsongkrohraj Road, Tambol Huaypong, Amphur Muang, Rayong Thailand 21150

Lot ID: 2624688
Date Received :Mar 24, 2026
Date Reported :Mar 27, 2026
Report Number :3531976-1

P/O :
Project Name : Monitoring
Project Location : WHA EIE

Page 1 of 2

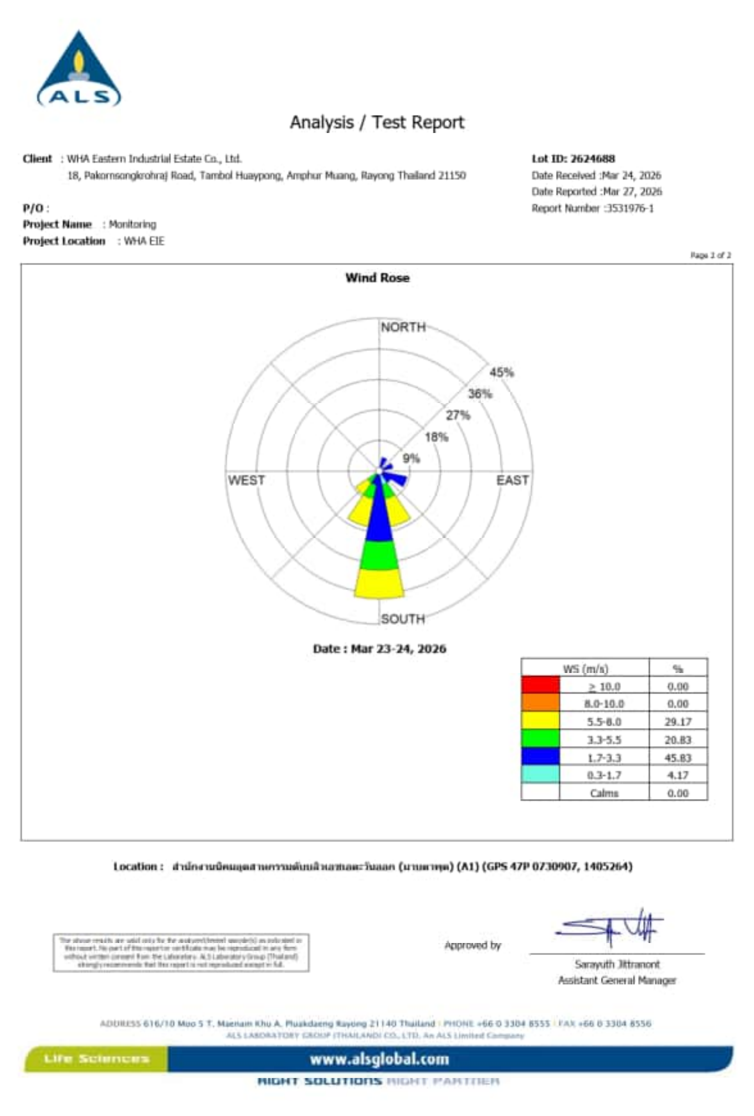
Sample Number 2624688-1
Parameter Wind Speed / Wind Direction
Location สำนักงานนิคมอุตสาหกรรมดับบลิวเอชเอตะวันออก (มาบตาพุด) (A1) (GPS 47P 0730907, 1405264)
Sampling Date Mar 23 - Mar 24, 2026
Sampling by Apichart Wilars

Time	Mar 23 - Mar 24, 2026			-			-			-			-			-			-		
	WS (m/s)	WD (deg)		-	-		-	-		-	-		-	-		-	-		-	-	
01:00 PM - 02:00 PM	2.4	196.0	SSW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
02:00 PM - 03:00 PM	2.1	174.0	S	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
03:00 PM - 04:00 PM	6.5	180.0	S	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
04:00 PM - 05:00 PM	2.5	184.0	S	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
05:00 PM - 06:00 PM	2.9	67.0	ENE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
06:00 PM - 07:00 PM	3.0	122.0	ESE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
07:00 PM - 08:00 PM	5.2	163.0	SSE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
08:00 PM 09:00 PM	2.1	32.0	NNE																		
09:00 PM - 10:00 PM	0.9	149.0	SSE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10:00 PM - 11:00 PM	2.3	117.0	ESE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11:00 PM - 12:00 AM	5.7	233.0	SW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12:00 AM - 01:00 AM	6.7	199.0	SSW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
01:00 AM - 02:00 AM	2.8	124.0	SE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
02:00 AM - 03:00 AM	1.9	182.0	S	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
03:00 AM - 04:00 AM	4.0	191.0	S	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
04:00 AM - 05:00 AM	6.1	158.0	SSE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
05:00 AM - 06:00 AM	5.3	214.0	SW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
06:00 AM - 07:00 AM	2.8	185.0	S	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
07:00 AM - 08:00 AM	2.7	174.0	S	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
08:00 AM - 09:00 AM	7.9	186.0	S	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
09:00 AM - 10:00 AM	5.2	192.0	SSW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10:00 AM - 11:00 AM	6.3	201.0	SSW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11:00 AM - 12:00 PM	6.5	148.0	SSE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12:00 PM - 01:00 PM	4.7	185.0	S	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Reference Method : Cup Anemometer & Anodized Aluminium Vane Method

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

Approved by
Sarayuth Jittranont
Assistant General Manager



Analysis / Test Report

Client : WHA Eastern Industrial Estate Co., Ltd.
18, Pakornsongkrohraj Road, Tambol Huaypong, Amphur Muang, Rayong Thailand 21150

Lot ID: 2624688
Date Received :Mar 24, 2026
Date Reported :Mar 27, 2026
Report Number :3531976-1

P/O :
Project Name : Monitoring
Project Location : WHA EIE

Page 2 of 2

Wind Rose

Date : Mar 23-24, 2026

WS (m/s)		%
🟥	≥ 10.0	0.00
🟧	8.0-10.0	0.00
🟨	5.5-8.0	29.17
🟩	3.3-5.5	20.83
🟦	1.7-3.3	45.83
▨	0.3-1.7	4.17
	Calms	0.00

Location : สำนักงานนิคมอุตสาหกรรมดับบลิวเอชเอตะวันออก (มาบตาพุด) (A1) (GPS 47P 0730907, 1405264)

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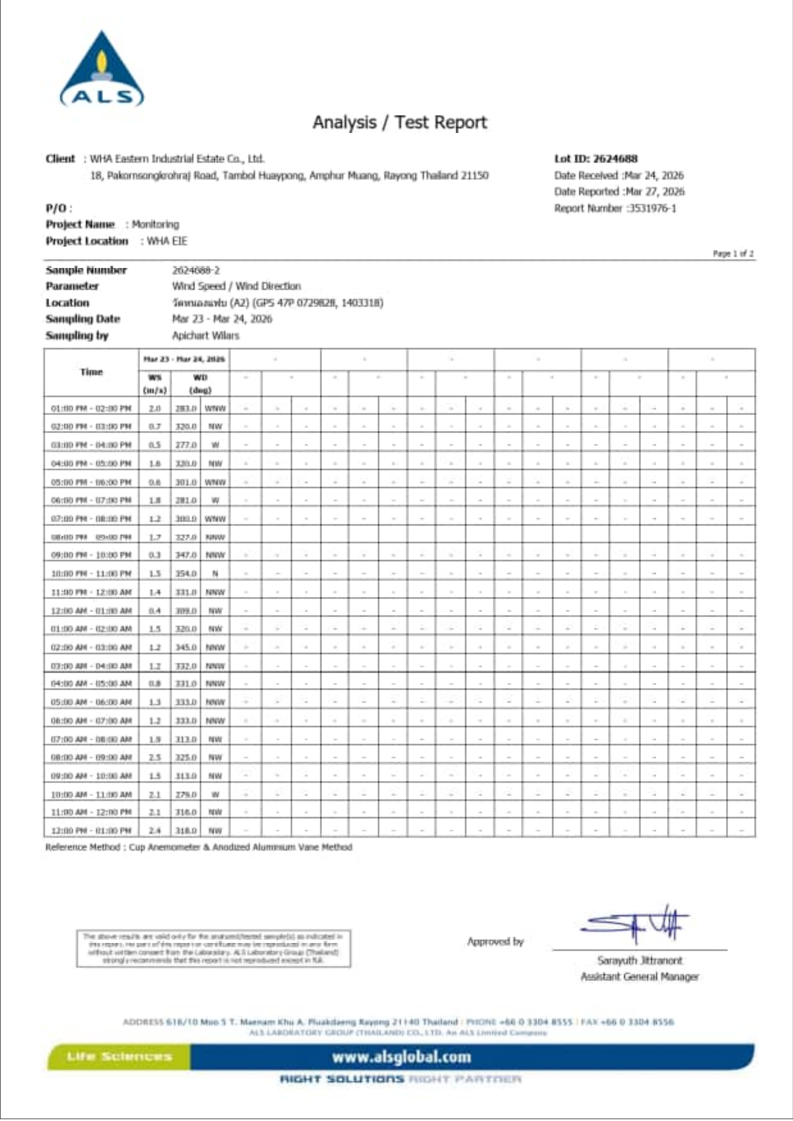
Sarayuth Jittranont
Assistant General Manager



Analysis / Test Report

Client : WHA Eastern Industrial Estate Co., Ltd.
18, Pakornsongkrohraj Road, Tambol Huaypong, Amphur Muang, Rayong Thailand 21150

Lot ID: 2624688
Date Received :Mar 24, 2026
Date Reported :Mar 27, 2026
Report Number :3531976-1

P/O :
Project Name : Monitoring
Project Location : WHA EIE

Page 1 of 2

Sample Number 2624688-2
Parameter Wind Speed / Wind Direction
Location วัดหนองแฟบ (A2) (GPS 47P 0729828, 1403318)
Sampling Date Mar 23 - Mar 24, 2026
Sampling by Apichart Wilars

Time	Mar 23 - Mar 24, 2026			-			-			-			-			-			-		
	WS (m/s)	WD (deg)		-	-		-	-		-	-		-	-		-	-		-	-	
01:00 PM - 02:00 PM	2.0	283.0	WNW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
02:00 PM - 03:00 PM	0.7	320.0	NW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
03:00 PM - 04:00 PM	0.5	277.0	W	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
04:00 PM - 05:00 PM	1.6	320.0	NW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
05:00 PM - 06:00 PM	0.6	301.0	WNW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
06:00 PM - 07:00 PM	1.8	281.0	W	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
07:00 PM - 08:00 PM	1.2	300.0	WNW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
08:00 PM 09:00 PM	1.7	327.0	NNW																		
09:00 PM - 10:00 PM	0.3	347.0	NNW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10:00 PM - 11:00 PM	1.5	354.0	N	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11:00 PM - 12:00 AM	1.4	331.0	NNW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12:00 AM - 01:00 AM	0.4	309.0	NW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
01:00 AM - 02:00 AM	1.5	320.0	NW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
02:00 AM - 03:00 AM	1.2	345.0	NNW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
03:00 AM - 04:00 AM	1.2	332.0	NNW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
04:00 AM - 05:00 AM	0.8	331.0	NNW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
05:00 AM - 06:00 AM	1.3	333.0	NNW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
06:00 AM - 07:00 AM	1.2	333.0	NNW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
07:00 AM - 08:00 AM	1.9	313.0	NW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
08:00 AM - 09:00 AM	2.5	325.0	NW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
09:00 AM - 10:00 AM	1.5	313.0	NW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10:00 AM - 11:00 AM	2.1	279.0	W	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11:00 AM - 12:00 PM	2.1	316.0	NW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12:00 PM - 01:00 PM	2.4	318.0	NW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Reference Method : Cup Anemometer & Anodized Aluminium Vane Method

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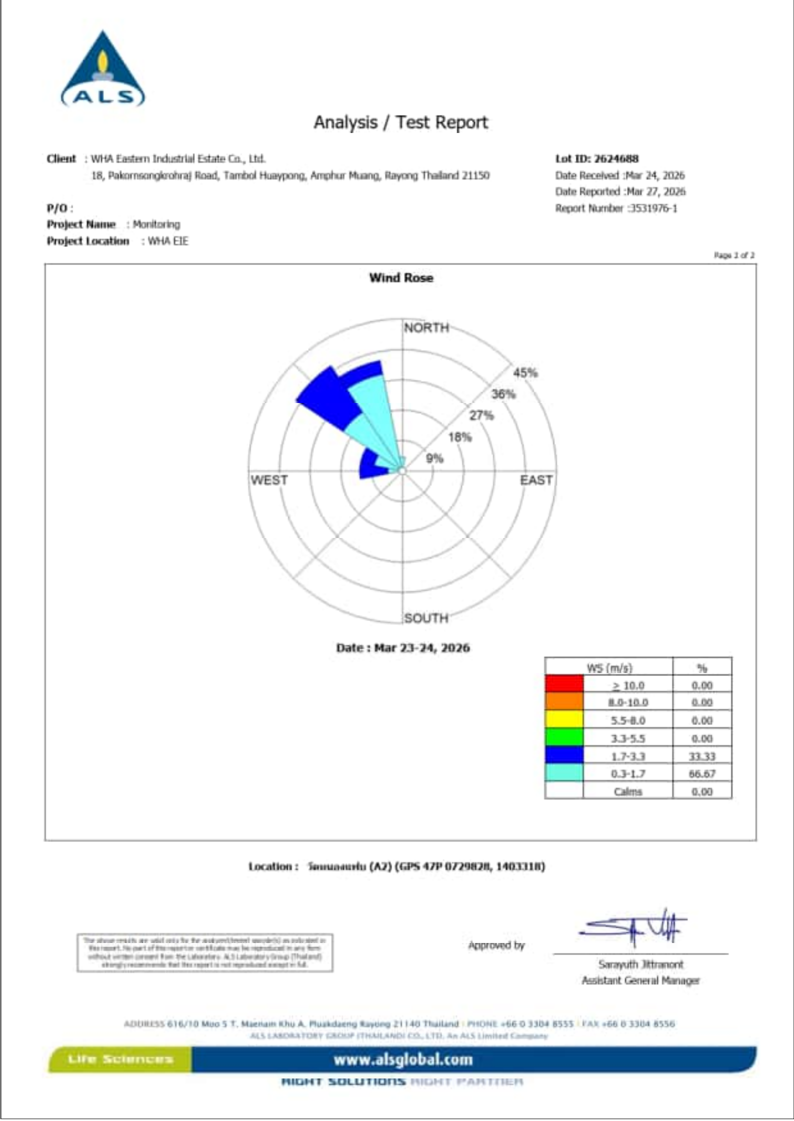
Assistant General Manager



Analysis / Test Report

Client : WHA Eastern Industrial Estate Co., Ltd.
18, Pakornsongkrohraj Road, Tambol Huaypong, Amphur Muang, Rayong Thailand 21150

Lot ID: 2624688
Date Received :Mar 24, 2026
Date Reported :Mar 27, 2026
Report Number :3531976-1

P/O :
Project Name : Monitoring
Project Location : WHA EIE

Page 2 of 2

Wind Rose

Date : Mar 23-24, 2026

WS (m/s)		%
🟥	≥ 10.0	0.00
🟧	8.0-10.0	0.00
🟨	5.5-8.0	0.00
🟩	3.3-5.5	0.00
🟦	1.7-3.3	33.33
▨	0.3-1.7	66.67
	Calms	0.00

Location : วัดหนองแฟบ (A2) (GPS 47P 0729828, 1403318)

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Sarayuth Jittranont
Assistant General Manager

Analysis / Test Report

Client : WHA Eastern Industrial Estate Co., Ltd.
18, Pakornsongkrohraj Road, Tambol Huaypong, Amphur Muang, Rayong Thailand 21150

Lot ID: 2624688
Date Received :Mar 24, 2026
Date Reported :Mar 27, 2026
Report Number :3531976-1

P/O :
Project Name : Monitoring
Project Location : WHA EIE

Sample Number 2624688-3
Parameter Wind Speed / Wind Direction
Location วัดมาบชลูด (A3) (GPS 47P 0730826, 1407360)
Sampling Date Mar 23 - Mar 24, 2026
Sampling by Apichart Wilars

Time	Mar 23 - Mar 24, 2026			-			-			-			-			-			-		
	WS (m/s)	WD (deg)		-	-		-	-		-	-		-	-		-	-		-	-	
01:00 PM - 02:00 PM	1.2	234.0	SW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
02:00 PM - 03:00 PM	0.8	245.0	WSW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
03:00 PM - 04:00 PM	0.7	189.0	S	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
04:00 PM - 05:00 PM	1.0	290.0	WNW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
05:00 PM - 06:00 PM	1.0	237.0	WSW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
06:00 PM - 07:00 PM	0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
07:00 PM - 08:00 PM	0.6	243.0	WSW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
08:00 PM - 09:00 PM	0.8	247.0	WSW																		
09:00 PM - 10:00 PM	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10:00 PM - 11:00 PM	1.0	250.0	WSW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11:00 PM - 12:00 AM	1.1	208.0	SSW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12:00 AM - 01:00 AM	0.8	213.0	SSW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
01:00 AM - 02:00 AM	1.5	249.0	WSW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
02:00 AM - 03:00 AM	0.3	266.0	W	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
03:00 AM - 04:00 AM	1.0	192.0	SSW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
04:00 AM - 05:00 AM	0.8	254.0	WSW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
05:00 AM - 06:00 AM	0.5	271.0	W	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
06:00 AM - 07:00 AM	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
07:00 AM - 08:00 AM	0.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
08:00 AM - 09:00 AM	0.9	259.0	W	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
09:00 AM - 10:00 AM	0.3	233.0	SW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10:00 AM - 11:00 AM	1.7	252.0	WSW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11:00 AM - 12:00 PM	1.4	240.0	WSW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12:00 PM - 01:00 PM	1.2	244.0	WSW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Reference Method : Cup Anemometer & Anodized Aluminium Vane Method

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Approved by

Sarayuth Jittranont
Assistant General Manager

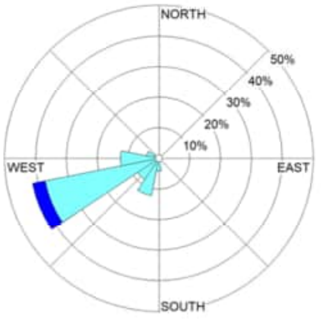
Analysis / Test Report

Client : WHA Eastern Industrial Estate Co., Ltd.
18, Pakornsongkrohraj Road, Tambol Huaypong, Amphur Muang, Rayong Thailand 21150

Lot ID: 2624688
Date Received :Mar 24, 2026
Date Reported :Mar 27, 2026
Report Number :3531976-1

P/O :
Project Name : Monitoring
Project Location : WHA EIE

Wind Rose



Date : Mar 23-24, 2026

WS (m/s)		%
🟥	≥ 10.0	0.00
🟧	8.0-10.0	0.00
🟨	5.5-8.0	0.00
🟩	3.3-5.5	0.00
🟦	1.7-3.3	4.17
🟦	0.3-1.7	79.17
	Calms	16.67

Location : วัดมาบชลูด (A3) (GPS 47P 0730826, 1407360)

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Sarayuth Jittranont
Assistant General Manager

Analysis / Test Report

Client : WHA Eastern Industrial Estate Co., Ltd.
18, Pakornsongkrohraj Road, Tambol Huaypong, Amphur Muang, Rayong Thailand 21150

Lot ID: 2624685
Date Received :Mar 24, 2026
Date Reported :Mar 27, 2026
Report Number :3531966-1

P/O :
Project Name : Monitoring
Project Location : WHA EIE

Sample Number 2624685-1
Parameter Temperature
Location สำนักงานนิคมอุตสาหกรรมดับบลิวเอชเอตะวันออก (มาบตาพุด) (A1) (GPS 47P 0730907, 1405264)
Sampling Date Mar 23 - Mar 24, 2026
Sampling by Apichart Wilars

Time	Temperature (°C)						
	Mar 23 - Mar 24, 2026	-	-	-	-	-	-
01:00 PM - 02:00 PM	37.4	-	-	-	-	-	-
02:00 PM - 03:00 PM	32.7	-	-	-	-	-	-
03:00 PM - 04:00 PM	32.1	-	-	-	-	-	-
04:00 PM - 05:00 PM	31.5	-	-	-	-	-	-
05:00 PM - 06:00 PM	30.2	-	-	-	-	-	-
06:00 PM - 07:00 PM	29.1	-	-	-	-	-	-
07:00 PM - 08:00 PM	28.4	-	-	-	-	-	-
08:00 PM - 09:00 PM	28.2	-	-	-	-	-	-
09:00 PM - 10:00 PM	28.4	-	-	-	-	-	-
10:00 PM - 11:00 PM	27.8	-	-	-	-	-	-
11:00 PM - 12:00 AM	27.5	-	-	-	-	-	-
12:00 AM - 01:00 AM	27.2	-	-	-	-	-	-
01:00 AM - 02:00 AM	26.7	-	-	-	-	-	-
02:00 AM - 03:00 AM	27.7	-	-	-	-	-	-
03:00 AM - 04:00 AM	27.4	-	-	-	-	-	-
04:00 AM - 05:00 AM	26.9	-	-	-	-	-	-
05:00 AM - 06:00 AM	27.2	-	-	-	-	-	-
06:00 AM - 07:00 AM	28.4	-	-	-	-	-	-
07:00 AM - 08:00 AM	29.6	-	-	-	-	-	-
08:00 AM - 09:00 AM	30.2	-	-	-	-	-	-
09:00 AM - 10:00 AM	31.4	-	-	-	-	-	-
10:00 AM - 11:00 AM	32.3	-	-	-	-	-	-
11:00 AM - 12:00 PM	32.7	-	-	-	-	-	-
12:00 PM - 01:00 PM	33.1	-	-	-	-	-	-
Average – 24 hr	29.5	-	-	-	-	-	-
Max – 1 hr	33.1	-	-	-	-	-	-
Min – 1 hr	26.7	-	-	-	-	-	-

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Sarayuth Jittranont
Assistant General Manager

Analysis / Test Report

Client : WHA Eastern Industrial Estate Co., Ltd.
18, Pakornsongkrohraj Road, Tambol Huaypong, Amphur Muang, Rayong Thailand 21150

Lot ID: 2624685
Date Received :Mar 24, 2026
Date Reported :Mar 27, 2026
Report Number :3531966-1

P/O :
Project Name : Monitoring
Project Location : WHA EIE

Sample Number 2624685-2
Parameter Temperature
Location วัดหนองแฟบ (A2) (GPS 47P 0729828, 1403318)
Sampling Date Mar 23 - Mar 24, 2026
Sampling by Apichart Wilars

Time	Temperature (°C)						
	Mar 23 - Mar 24, 2026	-	-	-	-	-	-
01:00 PM - 02:00 PM	37.8	-	-	-	-	-	-
02:00 PM - 03:00 PM	32.8	-	-	-	-	-	-
03:00 PM - 04:00 PM	32.3	-	-	-	-	-	-
04:00 PM - 05:00 PM	31.6	-	-	-	-	-	-
05:00 PM - 06:00 PM	29.9	-	-	-	-	-	-
06:00 PM - 07:00 PM	28.7	-	-	-	-	-	-
07:00 PM - 08:00 PM	28.4	-	-	-	-	-	-
08:00 PM - 09:00 PM	28.3	-	-	-	-	-	-
09:00 PM - 10:00 PM	28.4	-	-	-	-	-	-
10:00 PM - 11:00 PM	28.4	-	-	-	-	-	-
11:00 PM - 12:00 AM	28.3	-	-	-	-	-	-
12:00 AM - 01:00 AM	28.3	-	-	-	-	-	-
01:00 AM - 02:00 AM	28.1	-	-	-	-	-	-
02:00 AM - 03:00 AM	27.8	-	-	-	-	-	-
03:00 AM - 04:00 AM	27.9	-	-	-	-	-	-
04:00 AM - 05:00 AM	27.7	-	-	-	-	-	-
05:00 AM - 06:00 AM	27.6	-	-	-	-	-	-
06:00 AM - 07:00 AM	28.1	-	-	-	-	-	-
07:00 AM - 08:00 AM	29.2	-	-	-	-	-	-
08:00 AM - 09:00 AM	30.3	-	-	-	-	-	-
09:00 AM - 10:00 AM	32.3	-	-	-	-	-	-
10:00 AM - 11:00 AM	32.1	-	-	-	-	-	-
11:00 AM - 12:00 PM	33.1	-	-	-	-	-	-
12:00 PM - 01:00 PM	33.5	-	-	-	-	-	-
Average – 24 hr	29.8	-	-	-	-	-	-
Max – 1 hr	33.5	-	-	-	-	-	-
Min – 1 hr	27.6	-	-	-	-	-	-

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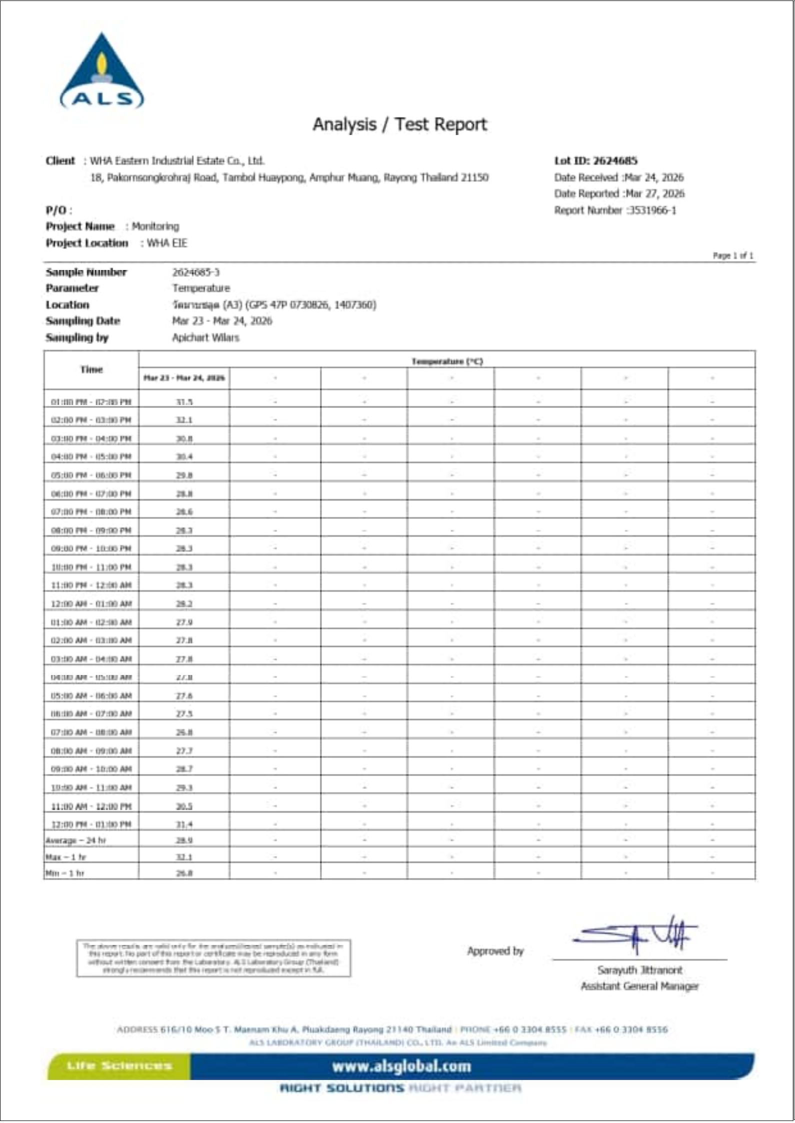
Assistant General Manager



Analysis / Test Report

Client : WHA Eastern Industrial Estate Co., Ltd.
18, Pakornsongkrohraj Road, Tambol Huaypong, Amphur Muang, Rayong Thailand 21150

P/O :
Project Name : Monitoring
Project Location : WHA EIE

Lot ID: 2624685
Date Received :Mar 24, 2026
Date Reported :Mar 27, 2026
Report Number :3531966-1

Sample Number	2624685-3
Parameter	Temperature
Location	วัดมาบชลูด (A3) (GPS 47P 0730826, 1407360)
Sampling Date	Mar 23 - Mar 24, 2026
Sampling by	Apichart Wilars

Time	Temperature (°C)						
	Mar 23 - Mar 24, 2026	-	-	-	-	-	-
01:00 PM - 02:00 PM	31.5	-	-	-	-	-	-
02:00 PM - 03:00 PM	32.1	-	-	-	-	-	-
03:00 PM - 04:00 PM	30.8	-	-	-	-	-	-
04:00 PM - 05:00 PM	30.4	-	-	-	-	-	-
05:00 PM - 06:00 PM	29.8	-	-	-	-	-	-
06:00 PM - 07:00 PM	28.8	-	-	-	-	-	-
07:00 PM - 08:00 PM	28.6	-	-	-	-	-	-
08:00 PM - 09:00 PM	28.3	-	-	-	-	-	-
09:00 PM - 10:00 PM	28.3	-	-	-	-	-	-
10:00 PM - 11:00 PM	28.3	-	-	-	-	-	-
11:00 PM - 12:00 AM	28.3	-	-	-	-	-	-
12:00 AM - 01:00 AM	28.2	-	-	-	-	-	-
01:00 AM - 02:00 AM	27.9	-	-	-	-	-	-
02:00 AM - 03:00 AM	27.8	-	-	-	-	-	-
03:00 AM - 04:00 AM	27.8	-	-	-	-	-	-
04:00 AM - 05:00 AM	27.8	-	-	-	-	-	-
05:00 AM - 06:00 AM	27.6	-	-	-	-	-	-
06:00 AM - 07:00 AM	27.5	-	-	-	-	-	-
07:00 AM - 08:00 AM	26.8	-	-	-	-	-	-
08:00 AM - 09:00 AM	27.7	-	-	-	-	-	-
09:00 AM - 10:00 AM	28.7	-	-	-	-	-	-
10:00 AM - 11:00 AM	29.3	-	-	-	-	-	-
11:00 AM - 12:00 PM	30.5	-	-	-	-	-	-
12:00 PM - 01:00 PM	31.4	-	-	-	-	-	-
Average – 24 hr	28.9	-	-	-	-	-	-
Max – 1 hr	32.1	-	-	-	-	-	-
Min – 1 hr	26.8	-	-	-	-	-	-

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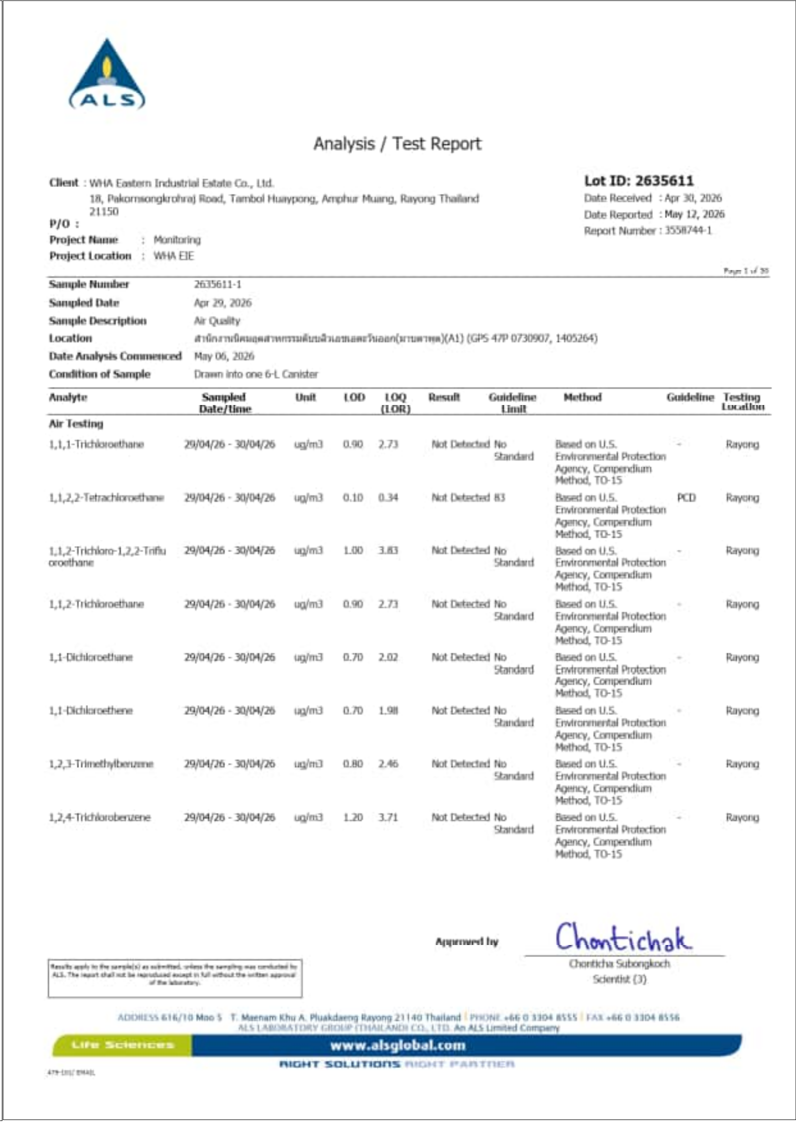
Assistant General Manager



Analysis / Test Report

Client : WHA Eastern Industrial Estate Co., Ltd.
18, Pakornsongkrohraj Road, Tambol Huaypong, Amphur Muang, Rayong Thailand
21150
P/O :
Project Name : Monitoring
Project Location : WHA EIE

Lot ID: 2635611
Date Received : Apr 30, 2026
Date Reported : May 12, 2026
Report Number : 3558744-1

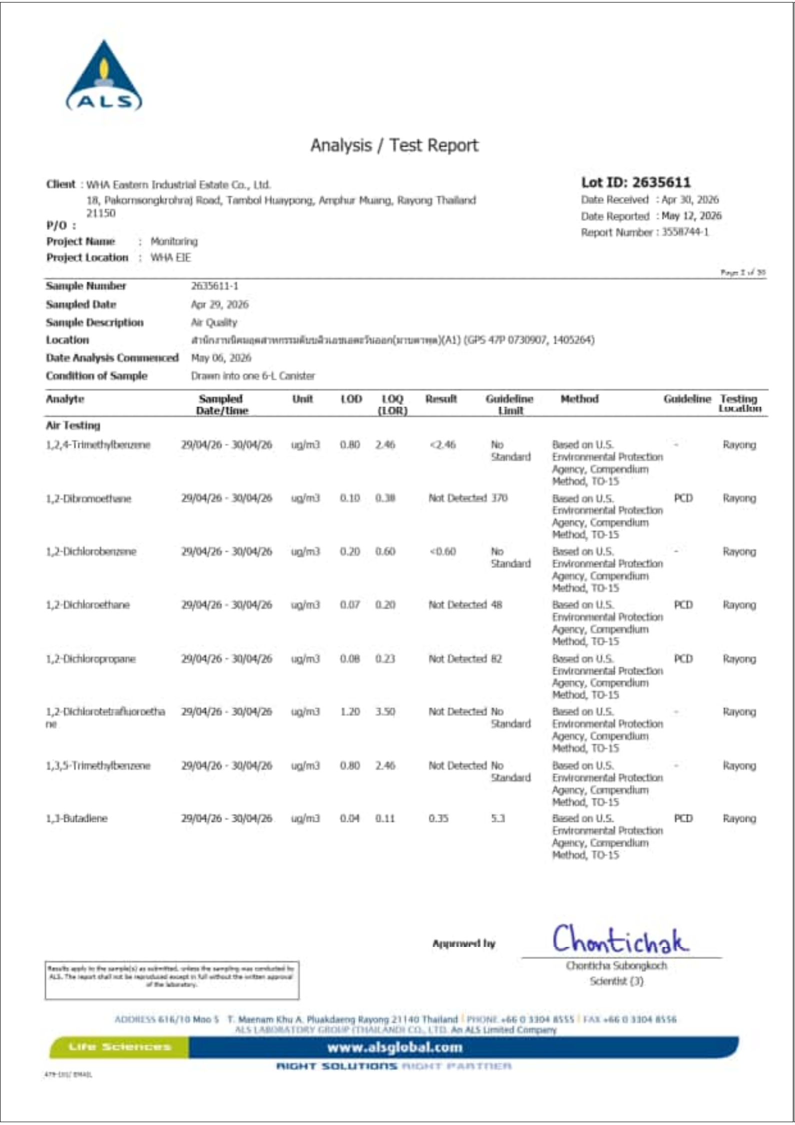
Sample Number	2635611-1
Sampled Date	Apr 29, 2026
Sample Description	Air Quality
Location	สำนักงานนิคมอุตสาหกรรมดับบลิวเอชเอตะวันออก(มาบตาพุด)(A1) (GPS 47P 0730907, 1405264)
Date Analysis Commenced	May 06, 2026
Condition of Sample	Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
1,1,1-Trichloroethane	29/04/26 - 30/04/26	ug/m3	0.90	2.73	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
1,1,2,2-Tetrachloroethane	29/04/26 - 30/04/26	ug/m3	0.10	0.34	Not Detected	83	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong
1,1,2-Trichloro-1,2,2-Trifluoroethane	29/04/26 - 30/04/26	ug/m3	1.00	3.83	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
1,1,2-Trichloroethane	29/04/26 - 30/04/26	ug/m3	0.90	2.73	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
1,1-Dichloroethane	29/04/26 - 30/04/26	ug/m3	0.70	2.02	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
1,1-Dichloroethene	29/04/26 - 30/04/26	ug/m3	0.70	1.98	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
1,2,3-Trimethylbenzene	29/04/26 - 30/04/26	ug/m3	0.80	2.46	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
1,2,4-Trichlorobenzene	29/04/26 - 30/04/26	ug/m3	1.20	3.71	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong

Approved by

Chontichak

Chonticha Subongkoch
Scientist (3)



Analysis / Test Report

Client : WHA Eastern Industrial Estate Co., Ltd.
18, Pakornsongkrohraj Road, Tambol Huaypong, Amphur Muang, Rayong Thailand
21150
P/O :
Project Name : Monitoring
Project Location : WHA EIE

Lot ID: 2635611
Date Received : Apr 30, 2026
Date Reported : May 12, 2026
Report Number : 3558744-1

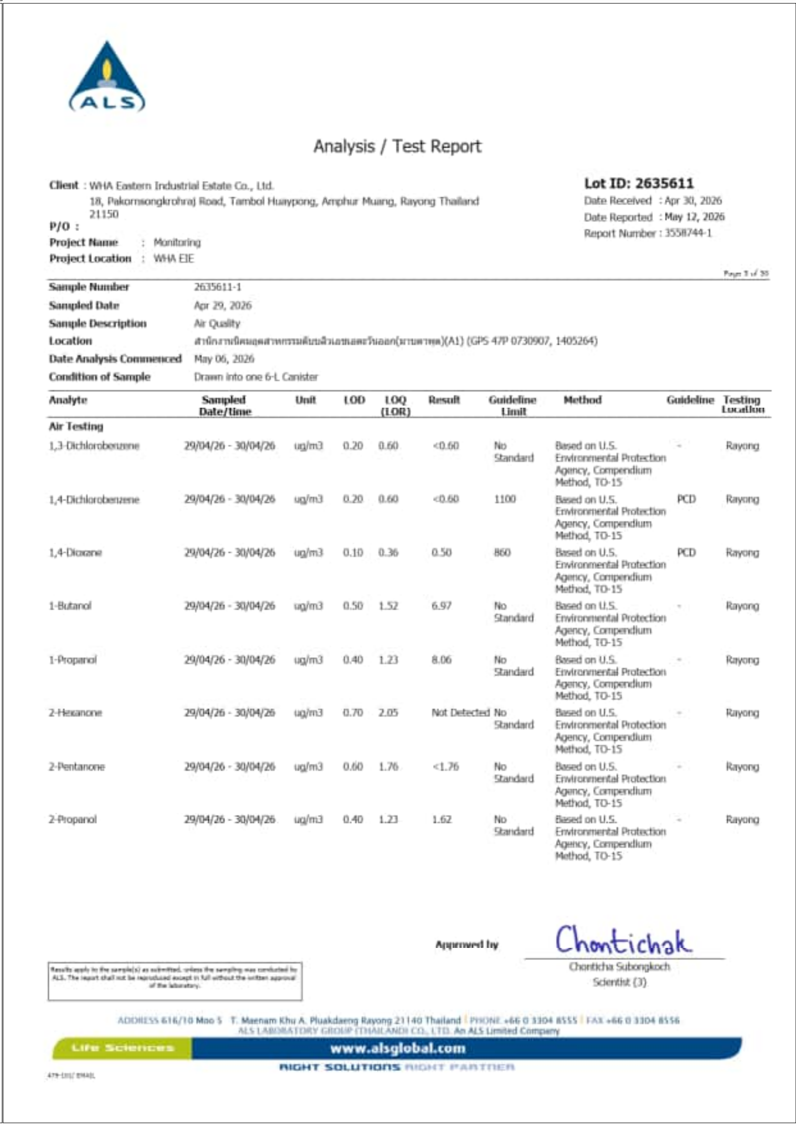
Sample Number	2635611-1
Sampled Date	Apr 29, 2026
Sample Description	Air Quality
Location	สำนักงานนิคมอุตสาหกรรมดับบลิวเอชเอตะวันออก(มาบตาพุด)(A1) (GPS 47P 0730907, 1405264)
Date Analysis Commenced	May 06, 2026
Condition of Sample	Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
1,2,4-Trimethylbenzene	29/04/26 - 30/04/26	ug/m3	0.80	2.46	<2.46	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
1,2-Dibromoethane	29/04/26 - 30/04/26	ug/m3	0.10	0.38	Not Detected	370	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong
1,2-Dichlorobenzene	29/04/26 - 30/04/26	ug/m3	0.20	0.60	<0.60	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
1,2-Dichloroethane	29/04/26 - 30/04/26	ug/m3	0.07	0.20	Not Detected	48	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong
1,2-Dichloropropane	29/04/26 - 30/04/26	ug/m3	0.08	0.23	Not Detected	82	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong
1,2-Dichlorotetrafluoroethane	29/04/26 - 30/04/26	ug/m3	1.20	3.50	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
1,3,5-Trimethylbenzene	29/04/26 - 30/04/26	ug/m3	0.80	2.46	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
1,3-Butadiene	29/04/26 - 30/04/26	ug/m3	0.04	0.11	0.35	5.3	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong

Approved by

Chontichak

Chonticha Subongkoch
Scientist (3)



Analysis / Test Report

Client : WHA Eastern Industrial Estate Co., Ltd.
18, Pakornsongkrohraj Road, Tambol Huaypong, Amphur Muang, Rayong Thailand
21150
P/O :
Project Name : Monitoring
Project Location : WHA EIE

Lot ID: 2635611
Date Received : Apr 30, 2026
Date Reported : May 12, 2026
Report Number : 3558744-1

Sample Number	2635611-1
Sampled Date	Apr 29, 2026
Sample Description	Air Quality
Location	สำนักงานนิคมอุตสาหกรรมดับบลิวเอชเอตะวันออก(มาบตาพุด)(A1) (GPS 47P 0730907, 1405264)
Date Analysis Commenced	May 06, 2026
Condition of Sample	Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
1,3-Dichlorobenzene	29/04/26 - 30/04/26	ug/m3	0.20	0.60	<0.60	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
1,4-Dichlorobenzene	29/04/26 - 30/04/26	ug/m3	0.20	0.60	<0.60	1100	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong
1,4-Dioxane	29/04/26 - 30/04/26	ug/m3	0.10	0.36	0.50	860	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong
1-Butanol	29/04/26 - 30/04/26	ug/m3	0.50	1.52	6.97	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
1-Propanol	29/04/26 - 30/04/26	ug/m3	0.40	1.23	8.06	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
2-Hexanone	29/04/26 - 30/04/26	ug/m3	0.70	2.05	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
2-Pentanone	29/04/26 - 30/04/26	ug/m3	0.60	1.76	<1.76	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
2-Propanol	29/04/26 - 30/04/26	ug/m3	0.40	1.23	1.62	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong

Approved by

Chontichak

Chonticha Subongkoch
Scientist (3)

Analysis / Test Report

Client : WHA Eastern Industrial Estate Co., Ltd.
18, Pakornsongkrohraj Road, Tambol Huaypong, Amphur Muang, Rayong Thailand
21150
P/O :
Project Name : Monitoring
Project Location : WHA EIE

Lot ID: 2635611
Date Received : Apr 30, 2026
Date Reported : May 12, 2026
Report Number : 3558744-1

Sample Number	2635611-1
Sampled Date	Apr 29, 2026
Sample Description	Air Quality
Location	สำนักงานนิคมอุตสาหกรรมดับบลิวเอชเอตะวันออก(มาบตาพุด)(A1) (GPS 47P 0730907, 1405264)
Date Analysis Commenced	May 06, 2026
Condition of Sample	Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
3-Hexanone	29/04/26 - 30/04/26	ug/m3	0.70	2.05	<2.05	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
3-Pentanone	29/04/26 - 30/04/26	ug/m3	0.60	1.76	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Acetaldehyde	29/04/26 - 30/04/26	ug/m3	0.05	0.18	2.63	860	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong
Acetone	29/04/26 - 30/04/26	ug/m3	0.08	0.24	11.35	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Acetonitrile	29/04/26 - 30/04/26	ug/m3	0.30	0.84	<0.84	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Acrolein	29/04/26 - 30/04/26	ug/m3	0.08	0.23	0.46	0.55	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong
Acrylonitrile	29/04/26 - 30/04/26	ug/m3	0.07	0.22	Not Detected	10	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong
Benzene	29/04/26 - 30/04/26	ug/m3	0.05	0.16	1.79	7.6	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong

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Chonticha Subongkoch
Scientist (3)

Analysis / Test Report

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18, Pakornsongkrohraj Road, Tambol Huaypong, Amphur Muang, Rayong Thailand
21150
P/O :
Project Name : Monitoring
Project Location : WHA EIE

Lot ID: 2635611
Date Received : Apr 30, 2026
Date Reported : May 12, 2026
Report Number : 3558744-1

Sample Number	2635611-1
Sampled Date	Apr 29, 2026
Sample Description	Air Quality
Location	สำนักงานนิคมอุตสาหกรรมดับบลิวเอชเอตะวันออก(มาบตาพุด)(A1) (GPS 47P 0730907, 1405264)
Date Analysis Commenced	May 06, 2026
Condition of Sample	Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Benzyl Chloride	29/04/26 - 30/04/26	ug/m3	0.17	0.52	0.62	12	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong
Bromodichloromethane	29/04/26 - 30/04/26	ug/m3	1.00	3.35	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Bromoform	29/04/26 - 30/04/26	ug/m3	1.00	5.17	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Bromomethane	29/04/26 - 30/04/26	ug/m3	0.06	0.19	<0.19	190	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong
Butanal	29/04/26 - 30/04/26	ug/m3	0.49	1.47	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Carbon Disulfide	29/04/26 - 30/04/26	ug/m3	0.05	0.16	Not Detected	100	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	NEB	Rayong
Carbon Tetrachloride	29/04/26 - 30/04/26	ug/m3	0.10	0.31	0.38	150	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong
Chlorobenzene	29/04/26 - 30/04/26	ug/m3	0.80	2.30	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong

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21150
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Date Reported : May 12, 2026
Report Number : 3558744-1

Sample Number	2635611-1
Sampled Date	Apr 29, 2026
Sample Description	Air Quality
Location	สำนักงานนิคมอุตสาหกรรมดับบลิวเอชเอตะวันออก(มาบตาพุด)(A1) (GPS 47P 0730907, 1405264)
Date Analysis Commenced	May 06, 2026
Condition of Sample	Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Chlorodifluoromethane (HCFC-22)	29/04/26 - 30/04/26	ug/m3	0.60	1.77	<1.77	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Chloroethane	29/04/26 - 30/04/26	ug/m3	0.40	1.32	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Chloroform	29/04/26 - 30/04/26	ug/m3	0.08	0.24	Not Detected	57	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong
Chloromethane	29/04/26 - 30/04/26	ug/m3	0.30	1.03	1.61	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
cis-1,2-Dichloroethene	29/04/26 - 30/04/26	ug/m3	0.70	1.98	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
cis-1,3-Dichloropropene	29/04/26 - 30/04/26	ug/m3	0.80	2.27	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Cyclohexane	29/04/26 - 30/04/26	ug/m3	0.60	1.72	2.20	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Cyclopentane	29/04/26 - 30/04/26	ug/m3	0.50	1.43	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong

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Analysis / Test Report

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Date Received : Apr 30, 2026
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Report Number : 3558744-1

Sample Number	2635611-1
Sampled Date	Apr 29, 2026
Sample Description	Air Quality
Location	สำนักงานนิคมอุตสาหกรรมดับบลิวเอชเอตะวันออก(มาบตาพุด)(A1) (GPS 47P 0730907, 1405264)
Date Analysis Commenced	May 06, 2026
Condition of Sample	Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Dichlorodifluoromethane (CFC-112)	29/04/26 - 30/04/26	ug/m3	0.80	2.47	2.47	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Dichloromethane	29/04/26 - 30/04/26	ug/m3	0.06	0.17	3.54	210	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong
Ethanol	29/04/26 - 30/04/26	ug/m3	0.30	0.94	3.88	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Ethyl Benzene	29/04/26 - 30/04/26	ug/m3	0.70	2.17	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Hexanal	29/04/26 - 30/04/26	ug/m3	0.60	2.05	4.10	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Hexane	29/04/26 - 30/04/26	ug/m3	0.60	1.76	<1.76	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Isobutene	29/04/26 - 30/04/26	ug/m3	0.40	1.15	1.61	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Isoprene	29/04/26 - 30/04/26	ug/m3	0.50	1.39	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong

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Sample Number	2635611-1
Sampled Date	Apr 29, 2026
Sample Description	Air Quality
Location	สำนักงานนิคมอุตสาหกรรมดับบลิวเอชเอตะวันออก(มาบตาพุด)(A1) (GPS 47P 0730907, 1405264)
Date Analysis Commenced	May 06, 2026
Condition of Sample	Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
m,p-Xylene	29/04/26 - 30/04/26	ug/m3	1.50	4.34	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Methacrolein	29/04/26 - 30/04/26	ug/m3	0.50	1.43	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Methanol	29/04/26 - 30/04/26	ug/m3	0.20	0.66	11.82	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Methyl Ethyl Ketone	29/04/26 - 30/04/26	ug/m3	0.50	1.47	5.37	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Methyl Iodide	29/04/26 - 30/04/26	ug/m3	0.90	2.90	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Methyl Isobutyl Ketone	29/04/26 - 30/04/26	ug/m3	0.70	2.05	4.59	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Methyl tert butyl ether	29/04/26 - 30/04/26	ug/m3	0.60	1.80	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Methyl Vinyl Ketone	29/04/26 - 30/04/26	ug/m3	0.50	1.43	<1.43	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong

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21150
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Report Number : 3558744-1

Sample Number	2635611-1
Sampled Date	Apr 29, 2026
Sample Description	Air Quality
Location	สำนักงานนิคมอุตสาหกรรมดับบลิวเอชเอตะวันออก(มาบตาพุด)(A1) (GPS 47P 0730907, 1405264)
Date Analysis Commenced	May 06, 2026
Condition of Sample	Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
o-Xylene	29/04/26 - 30/04/26	ug/m3	0.70	2.17	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Pentanal	29/04/26 - 30/04/26	ug/m3	0.50	1.76	<1.76	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Pentane	29/04/26 - 30/04/26	ug/m3	0.50	1.48	1.65	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Propanal	29/04/26 - 30/04/26	ug/m3	0.50	1.19	2.09	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Propene (Propylene)	29/04/26 - 30/04/26	ug/m3	0.30	0.86	1.89	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Styrene	29/04/26 - 30/04/26	ug/m3	0.70	2.13	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Tetrachloroethylene	29/04/26 - 30/04/26	ug/m3	0.11	0.34	Not Detected	400	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong
Toluene	29/04/26 - 30/04/26	ug/m3	0.60	1.88	7.84	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong

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Date Received : Apr 30, 2026
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Report Number : 3558744-1

Sample Number	2635611-1
Sampled Date	Apr 29, 2026
Sample Description	Air Quality
Location	สำนักงานนิคมอุตสาหกรรมดับบลิวเอชเอตะวันออก(มาบตาพุด)(A1) (GPS 47P 0730907, 1405264)
Date Analysis Commenced	May 06, 2026
Condition of Sample	Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
trans-1,2-Dichloroethene	29/04/26 - 30/04/26	ug/m3	0.70	1.98	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
trans-1,3-Dichloropropene	29/04/26 - 30/04/26	ug/m3	0.80	2.27	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Trichloroethylene	29/04/26 - 30/04/26	ug/m3	0.09	0.27	Not Detected	130	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong
Trichlorofluoromethane (F-11)	29/04/26 - 30/04/26	ug/m3	0.90	2.81	<2.81	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Vinyl Acetate	29/04/26 - 30/04/26	ug/m3	0.60	1.76	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Vinyl Chloride	29/04/26 - 30/04/26	ug/m3	0.04	0.13	<0.13	20	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong

Guideline :
NEB : Notification of National Environment Board, B.E. 2560 (2017)
PCD : Notification of the Pollution Control Department, which was published in the Royal Government Gazette Vol. 126 Special Part 13 D dated January 27, B.E. 2552 (2009).
Sampled By : Nattakarn Vonginyoo

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

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Analysis / Test Report

Client : WHA Eastern Industrial Estate Co., Ltd.
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21150
P/O :
Project Name : Monitoring
Project Location : WHA EIE

Lot ID: 2635611
Date Received : Apr 30, 2026
Date Reported : May 12, 2026
Report Number : 3558744-1

Sample Number	2635611-2
Sampled Date	Apr 29, 2026
Sample Description	Air Quality
Location	วัดหนองแฟบ(A2) (GPS 47P 0729828, 1403318)
Date Analysis Commenced	May 06, 2026
Condition of Sample	Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
1,1,1-Trichloroethane	29/04/26 - 30/04/26	ug/m3	0.90	2.73	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
1,1,2,2-Tetrachloroethane	29/04/26 - 30/04/26	ug/m3	0.10	0.34	Not Detected	83	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong
1,1,2-Trichloro-1,2,2-Trifluoroethane	29/04/26 - 30/04/26	ug/m3	1.00	3.83	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
1,1,2-Trichloroethane	29/04/26 - 30/04/26	ug/m3	0.90	2.73	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
1,1-Dichloroethane	29/04/26 - 30/04/26	ug/m3	0.70	2.02	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
1,1-Dichloroethene	29/04/26 - 30/04/26	ug/m3	0.70	1.98	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
1,2,3-Trimethylbenzene	29/04/26 - 30/04/26	ug/m3	0.80	2.46	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
1,2,4-Trichlorobenzene	29/04/26 - 30/04/26	ug/m3	1.20	3.71	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong

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Project Location : WHA EIE

Lot ID: 2635611
Date Received : Apr 30, 2026
Date Reported : May 12, 2026
Report Number : 3558744-1

Sample Number	2635611-2
Sampled Date	Apr 29, 2026
Sample Description	Air Quality
Location	วัดหนองแฟบ(A2) (GPS 47P 0729828, 1403318)
Date Analysis Commenced	May 06, 2026
Condition of Sample	Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
1,2,4-Trimethylbenzene	29/04/26 - 30/04/26	ug/m3	0.80	2.46	<2.46	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
1,2-Dibromoethane	29/04/26 - 30/04/26	ug/m3	0.10	0.38	<0.38	370	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong
1,2-Dichlorobenzene	29/04/26 - 30/04/26	ug/m3	0.20	0.60	<0.60	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
1,2-Dichloroethane	29/04/26 - 30/04/26	ug/m3	0.07	0.20	Not Detected	48	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong
1,2-Dichloropropane	29/04/26 - 30/04/26	ug/m3	0.08	0.23	Not Detected	82	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong
1,2-Dichlorotetrafluoroethane	29/04/26 - 30/04/26	ug/m3	1.20	3.50	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
1,3,5-Trimethylbenzene	29/04/26 - 30/04/26	ug/m3	0.80	2.46	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
1,3-Butadiene	29/04/26 - 30/04/26	ug/m3	0.04	0.11	<0.11	5.3	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong

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Date Reported : May 12, 2026
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Sample Number	2635611-2
Sampled Date	Apr 29, 2026
Sample Description	Air Quality
Location	วัดหนองแฟบ(A2) (GPS 47P 0729828, 1403318)
Date Analysis Commenced	May 06, 2026
Condition of Sample	Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
1,3-Dichlorobenzene	29/04/26 - 30/04/26	ug/m3	0.20	0.60	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
1,4-Dichlorobenzene	29/04/26 - 30/04/26	ug/m3	0.20	0.60	Not Detected	1100	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong
1,4-Dioxane	29/04/26 - 30/04/26	ug/m3	0.10	0.36	Not Detected	860	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong
1-Butanol	29/04/26 - 30/04/26	ug/m3	0.50	1.52	<1.52	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
1-Propanol	29/04/26 - 30/04/26	ug/m3	0.40	1.23	6.54	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
2-Hexanone	29/04/26 - 30/04/26	ug/m3	0.70	2.05	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
2-Pentanone	29/04/26 - 30/04/26	ug/m3	0.60	1.76	<1.76	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
2-Propanol	29/04/26 - 30/04/26	ug/m3	0.40	1.23	<1.23	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong

Approved by Chontichak

Chonticha Subongkoch
Scientist (3)

Analysis / Test Report

Client : WHA Eastern Industrial Estate Co., Ltd.
18, Pakornsongkrohraj Road, Tambol Huaypong, Amphur Muang, Rayong Thailand
21150
P/O :
Project Name : Monitoring
Project Location : WHA EIE

Lot ID: 2635611
Date Received : Apr 30, 2026
Date Reported : May 12, 2026
Report Number : 3558744-1

Sample Number	2635611-2
Sampled Date	Apr 29, 2026
Sample Description	Air Quality
Location	วัดหนองแฟบ(A2) (GPS 47P 0729828, 1403318)
Date Analysis Commenced	May 06, 2026
Condition of Sample	Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
3-Hexanone	29/04/26 - 30/04/26	ug/m3	0.70	2.05	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
3-Pentanone	29/04/26 - 30/04/26	ug/m3	0.60	1.76	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Acetaldehyde	29/04/26 - 30/04/26	ug/m3	0.05	0.18	3.43	860	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong
Acetone	29/04/26 - 30/04/26	ug/m3	0.08	0.24	11.78	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Acetonitrile	29/04/26 - 30/04/26	ug/m3	0.30	0.84	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Acrolein	29/04/26 - 30/04/26	ug/m3	0.08	0.23	<0.23	0.55	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong
Acrylonitrile	29/04/26 - 30/04/26	ug/m3	0.07	0.22	Not Detected	10	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong
Benzene	29/04/26 - 30/04/26	ug/m3	0.05	0.16	0.64	7.6	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong

Approved by Chontichak

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21150
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Project Location : WHA EIE

Lot ID: 2635611
Date Received : Apr 30, 2026
Date Reported : May 12, 2026
Report Number : 3558744-1

Sample Number	2635611-2
Sampled Date	Apr 29, 2026
Sample Description	Air Quality
Location	วัดหนองแฟบ(A2) (GPS 47P 0729828, 1403318)
Date Analysis Commenced	May 06, 2026
Condition of Sample	Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Benzyl Chloride	29/04/26 - 30/04/26	ug/m3	0.17	0.52	<0.52	12	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong
Bromodichloromethane	29/04/26 - 30/04/26	ug/m3	1.00	3.35	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Bromoform	29/04/26 - 30/04/26	ug/m3	1.00	5.17	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Bromomethane	29/04/26 - 30/04/26	ug/m3	0.06	0.19	0.23	190	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong
Butanal	29/04/26 - 30/04/26	ug/m3	0.49	1.47	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Carbon Disulfide	29/04/26 - 30/04/26	ug/m3	0.05	0.16	0.44	100	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	NEB	Rayong
Carbon Tetrachloride	29/04/26 - 30/04/26	ug/m3	0.10	0.31	0.63	150	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong
Chlorobenzene	29/04/26 - 30/04/26	ug/m3	0.80	2.30	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong

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Sample Number	2635611-2
Sampled Date	Apr 29, 2026
Sample Description	Air Quality
Location	วัดหนองแฟบ(A2) (GPS 47P 0729828, 1403318)
Date Analysis Commenced	May 06, 2026
Condition of Sample	Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Chlorodifluoromethane (HCFC-22)	29/04/26 - 30/04/26	ug/m3	0.60	1.77	<1.77	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Chloroethane	29/04/26 - 30/04/26	ug/m3	0.40	1.32	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Chloroform	29/04/26 - 30/04/26	ug/m3	0.08	0.24	Not Detected	57	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong
Chloromethane	29/04/26 - 30/04/26	ug/m3	0.30	1.03	1.61	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
cis-1,2-Dichloroethene	29/04/26 - 30/04/26	ug/m3	0.70	1.98	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
cis-1,3-Dichloropropene	29/04/26 - 30/04/26	ug/m3	0.80	2.27	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Cyclohexane	29/04/26 - 30/04/26	ug/m3	0.60	1.72	<1.72	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Cyclopentane	29/04/26 - 30/04/26	ug/m3	0.50	1.43	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong

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Sample Description	Air Quality
Location	วัดหนองแฟบ(A2) (GPS 47P 0729828, 1403318)
Date Analysis Commenced	May 06, 2026
Condition of Sample	Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Dichlorodifluoromethane (CFC-112)	29/04/26 - 30/04/26	ug/m3	0.80	2.47	<2.47	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Dichloromethane	29/04/26 - 30/04/26	ug/m3	0.06	0.17	Not Detected	210	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong
Ethanol	29/04/26 - 30/04/26	ug/m3	0.30	0.94	8.48	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Ethyl Benzene	29/04/26 - 30/04/26	ug/m3	0.70	2.17	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Hexanal	29/04/26 - 30/04/26	ug/m3	0.60	2.05	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Hexane	29/04/26 - 30/04/26	ug/m3	0.60	1.76	<1.76	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Isobutene	29/04/26 - 30/04/26	ug/m3	0.40	1.15	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Isoprene	29/04/26 - 30/04/26	ug/m3	0.50	1.39	1.56	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong

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Sample Description	Air Quality
Location	วัดหนองแฟบ(A2) (GPS 47P 0729828, 1403318)
Date Analysis Commenced	May 06, 2026
Condition of Sample	Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
m,p-Xylene	29/04/26 - 30/04/26	ug/m3	1.50	4.34	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Methacrolein	29/04/26 - 30/04/26	ug/m3	0.50	1.43	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Methanol	29/04/26 - 30/04/26	ug/m3	0.20	0.66	15.20	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Methyl Ethyl Ketone	29/04/26 - 30/04/26	ug/m3	0.50	1.47	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Methyl Iodide	29/04/26 - 30/04/26	ug/m3	0.90	2.90	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Methyl Isobutyl Ketone	29/04/26 - 30/04/26	ug/m3	0.70	2.05	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Methyl tert butyl ether	29/04/26 - 30/04/26	ug/m3	0.60	1.80	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Methyl Vinyl Ketone	29/04/26 - 30/04/26	ug/m3	0.50	1.43	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong

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Sample Number	2635611-2
Sampled Date	Apr 29, 2026
Sample Description	Air Quality
Location	วัดหนองแฟบ(A2) (GPS 47P 0729828, 1403318)
Date Analysis Commenced	May 06, 2026
Condition of Sample	Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
o-Xylene	29/04/26 - 30/04/26	ug/m3	0.70	2.17	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Pentanal	29/04/26 - 30/04/26	ug/m3	0.50	1.76	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Pentane	29/04/26 - 30/04/26	ug/m3	0.50	1.48	<1.48	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Propanal	29/04/26 - 30/04/26	ug/m3	0.50	1.19	1.47	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Propene (Propylene)	29/04/26 - 30/04/26	ug/m3	0.30	0.86	0.96	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Styrene	29/04/26 - 30/04/26	ug/m3	0.70	2.13	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Tetrachloroethylene	29/04/26 - 30/04/26	ug/m3	0.11	0.34	<0.34	400	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong
Toluene	29/04/26 - 30/04/26	ug/m3	0.60	1.88	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong

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Analysis / Test Report

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21150
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Project Location : WHA EIE

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Sample Number	2635611-2
Sampled Date	Apr 29, 2026
Sample Description	Air Quality
Location	วัดหนองแฟบ(A2) (GPS 47P 0729828, 1403318)
Date Analysis Commenced	May 06, 2026
Condition of Sample	Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
trans-1,2-Dichloroethene	29/04/26 - 30/04/26	ug/m3	0.70	1.98	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
trans-1,3-Dichloropropene	29/04/26 - 30/04/26	ug/m3	0.80	2.27	<2.27	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Trichloroethylene	29/04/26 - 30/04/26	ug/m3	0.09	0.27	Not Detected	130	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong
Trichlorofluoromethane (F-11)	29/04/26 - 30/04/26	ug/m3	0.90	2.81	<2.81	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Vinyl Acetate	29/04/26 - 30/04/26	ug/m3	0.60	1.76	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Vinyl Chloride	29/04/26 - 30/04/26	ug/m3	0.04	0.13	Not Detected	20	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong

Guideline :
NEB : Notification of National Environment Board, B.E. 2560 (2017)
PCD : Notification of the Pollution Control Department, which was published in the Royal Government Gazette Vol. 126 Special Part 13 D dated January 27, B.E. 2552 (2009).
Sampled By : Nattakarn Vonginyoo

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

Approved by Chontichak
Chonticha Subongkoch
Scientist (3)

Analysis / Test Report

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21150
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Lot ID: 2635611
Date Received : Apr 30, 2026
Date Reported : May 12, 2026
Report Number : 3558744-1

Sample Number	2635611-3
Sampled Date	Apr 29, 2026
Sample Description	Air Quality
Location	วัดมาบชลูด(A3) (GPS 47P 0730826, 1407360)
Date Analysis Commenced	May 06, 2026
Condition of Sample	Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
1,1,1-Trichloroethane	29/04/26 - 30/04/26	ug/m3	0.90	2.73	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
1,1,2,2-Tetrachloroethane	29/04/26 - 30/04/26	ug/m3	0.10	0.34	Not Detected	83	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong
1,1,2-Trichloro-1,2,2-Trifluoroethane	29/04/26 - 30/04/26	ug/m3	1.00	3.83	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
1,1,2-Trichloroethane	29/04/26 - 30/04/26	ug/m3	0.90	2.73	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
1,1-Dichloroethane	29/04/26 - 30/04/26	ug/m3	0.70	2.02	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
1,1-Dichloroethene	29/04/26 - 30/04/26	ug/m3	0.70	1.98	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
1,2,3-Trimethylbenzene	29/04/26 - 30/04/26	ug/m3	0.80	2.46	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
1,2,4-Trichlorobenzene	29/04/26 - 30/04/26	ug/m3	1.20	3.71	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong

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Date Received : Apr 30, 2026
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Report Number : 3558744-1

Sample Number	2635611-3
Sampled Date	Apr 29, 2026
Sample Description	Air Quality
Location	วัดมาบชลูด(A3) (GPS 47P 0730826, 1407360)
Date Analysis Commenced	May 06, 2026
Condition of Sample	Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
1,2,4-Trimethylbenzene	29/04/26 - 30/04/26	ug/m3	0.80	2.46	<2.46	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
1,2-Dibromoethane	29/04/26 - 30/04/26	ug/m3	0.10	0.38	Not Detected	370	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong
1,2-Dichlorobenzene	29/04/26 - 30/04/26	ug/m3	0.20	0.60	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
1,2-Dichloroethane	29/04/26 - 30/04/26	ug/m3	0.07	0.20	Not Detected	48	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong
1,2-Dichloropropane	29/04/26 - 30/04/26	ug/m3	0.08	0.23	Not Detected	82	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong
1,2-Dichlorotetrafluoroethane	29/04/26 - 30/04/26	ug/m3	1.20	3.50	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
1,3,5-Trimethylbenzene	29/04/26 - 30/04/26	ug/m3	0.80	2.46	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
1,3-Butadiene	29/04/26 - 30/04/26	ug/m3	0.04	0.11	0.13	5.3	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong

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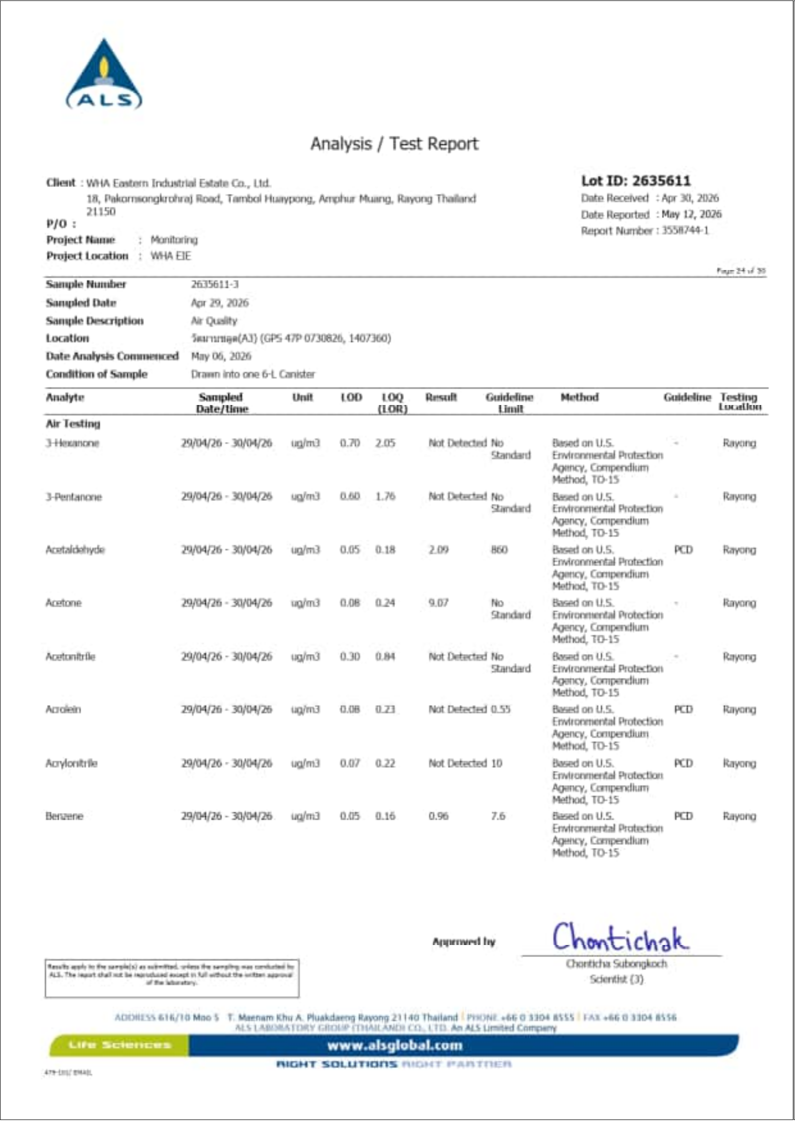
Sample Number	2635611-3
Sampled Date	Apr 29, 2026
Sample Description	Air Quality
Location	วัดมาบชลูด(A3) (GPS 47P 0730826, 1407360)
Date Analysis Commenced	May 06, 2026
Condition of Sample	Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
1,3-Dichlorobenzene	29/04/26 - 30/04/26	ug/m3	0.20	0.60	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
1,4-Dichlorobenzene	29/04/26 - 30/04/26	ug/m3	0.20	0.60	Not Detected	1100	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong
1,4-Dioxane	29/04/26 - 30/04/26	ug/m3	0.10	0.36	Not Detected	860	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong
1-Butanol	29/04/26 - 30/04/26	ug/m3	0.50	1.52	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
1-Propanol	29/04/26 - 30/04/26	ug/m3	0.40	1.23	6.29	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
2-Hexanone	29/04/26 - 30/04/26	ug/m3	0.70	2.05	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
2-Pentanone	29/04/26 - 30/04/26	ug/m3	0.60	1.76	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
2-Propanol	29/04/26 - 30/04/26	ug/m3	0.40	1.23	<1.23	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong

Approved by Chontichak
Chonticha Subongkoch
Scientist (3)



Analysis / Test Report

Client : WHA Eastern Industrial Estate Co., Ltd.
18, Pakornsongkrohraj Road, Tambol Huaypong, Amphur Muang, Rayong Thailand
21150
P/O :
Project Name : Monitoring
Project Location : WHA EIE

Lot ID: 2635611
Date Received : Apr 30, 2026
Date Reported : May 12, 2026
Report Number : 3558744-1

Sample Number	2635611-3
Sampled Date	Apr 29, 2026
Sample Description	Air Quality
Location	วัดมาบชลูด(A3) (GPS 47P 0730826, 1407360)
Date Analysis Commenced	May 06, 2026
Condition of Sample	Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
3-Hexanone	29/04/26 - 30/04/26	ug/m3	0.70	2.05	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
3-Pentanone	29/04/26 - 30/04/26	ug/m3	0.60	1.76	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Acetaldehyde	29/04/26 - 30/04/26	ug/m3	0.05	0.18	2.09	860	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong
Acetone	29/04/26 - 30/04/26	ug/m3	0.08	0.24	9.07	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Acetonitrile	29/04/26 - 30/04/26	ug/m3	0.30	0.84	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Acrolein	29/04/26 - 30/04/26	ug/m3	0.08	0.23	Not Detected	0.55	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong
Acrylonitrile	29/04/26 - 30/04/26	ug/m3	0.07	0.22	Not Detected	10	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong
Benzene	29/04/26 - 30/04/26	ug/m3	0.05	0.16	0.96	7.6	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong

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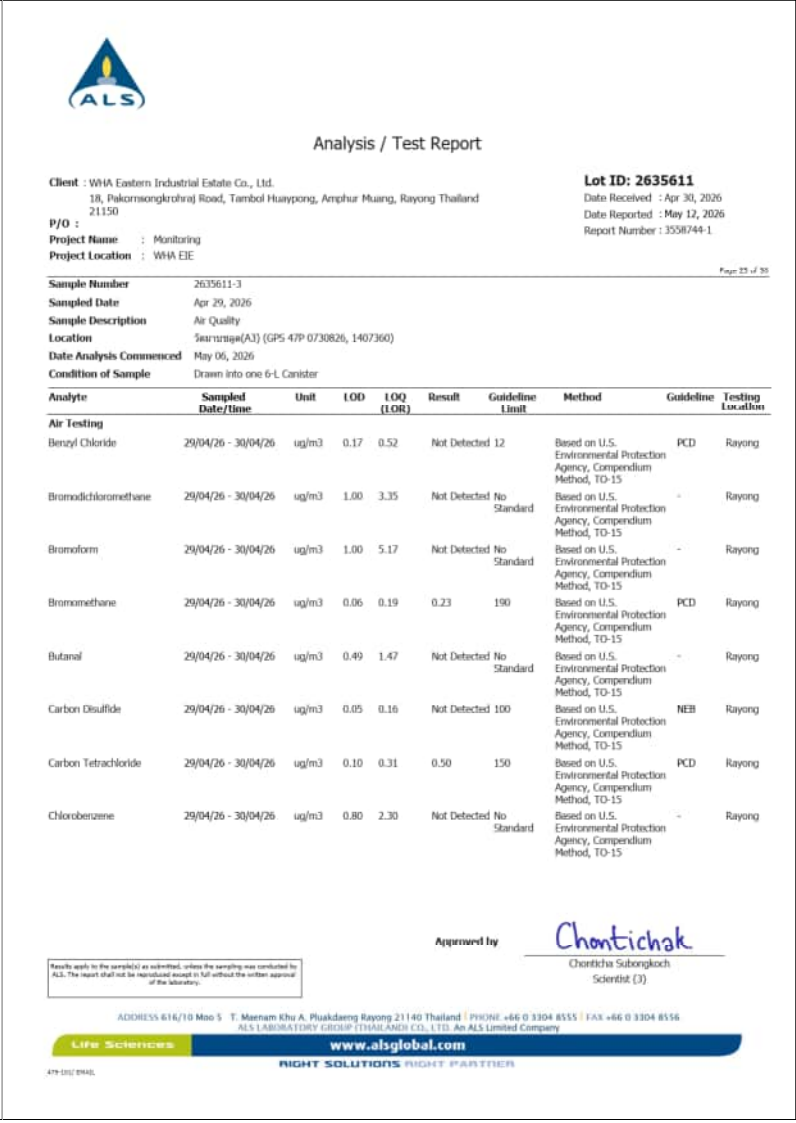
Chonticha Subongkoch
Scientist (3)



Analysis / Test Report

Client : WHA Eastern Industrial Estate Co., Ltd.
18, Pakornsongkrohraj Road, Tambol Huaypong, Amphur Muang, Rayong Thailand
21150
P/O :
Project Name : Monitoring
Project Location : WHA EIE

Lot ID: 2635611
Date Received : Apr 30, 2026
Date Reported : May 12, 2026
Report Number : 3558744-1

Sample Number	2635611-3
Sampled Date	Apr 29, 2026
Sample Description	Air Quality
Location	วัดมาบชลูด(A3) (GPS 47P 0730826, 1407360)
Date Analysis Commenced	May 06, 2026
Condition of Sample	Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Benzyl Chloride	29/04/26 - 30/04/26	ug/m3	0.17	0.52	Not Detected	12	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong
Bromodichloromethane	29/04/26 - 30/04/26	ug/m3	1.00	3.35	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Bromoform	29/04/26 - 30/04/26	ug/m3	1.00	5.17	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Bromomethane	29/04/26 - 30/04/26	ug/m3	0.06	0.19	0.23	190	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong
Butanal	29/04/26 - 30/04/26	ug/m3	0.49	1.47	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Carbon Disulfide	29/04/26 - 30/04/26	ug/m3	0.05	0.16	Not Detected	100	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	NEB	Rayong
Carbon Tetrachloride	29/04/26 - 30/04/26	ug/m3	0.10	0.31	0.50	150	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong
Chlorobenzene	29/04/26 - 30/04/26	ug/m3	0.80	2.30	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong

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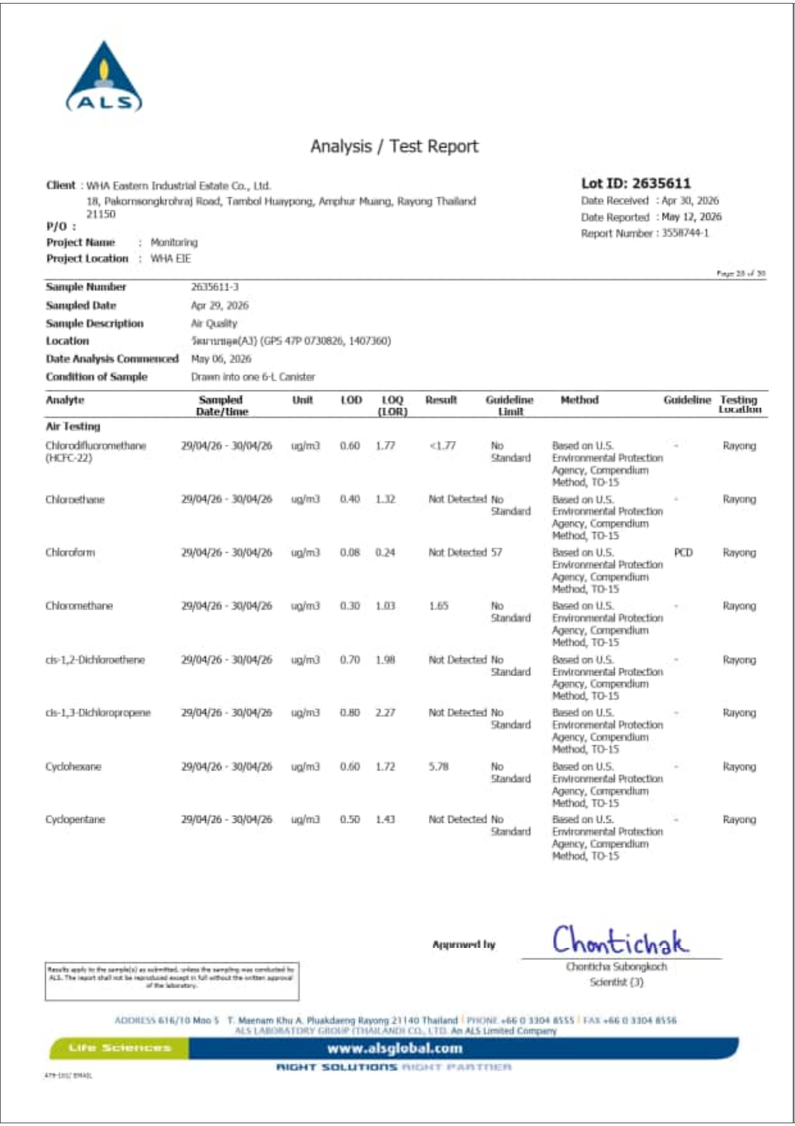
Chonticha Subongkoch
Scientist (3)



Analysis / Test Report

Client : WHA Eastern Industrial Estate Co., Ltd.
18, Pakornsongkrohraj Road, Tambol Huaypong, Amphur Muang, Rayong Thailand
21150
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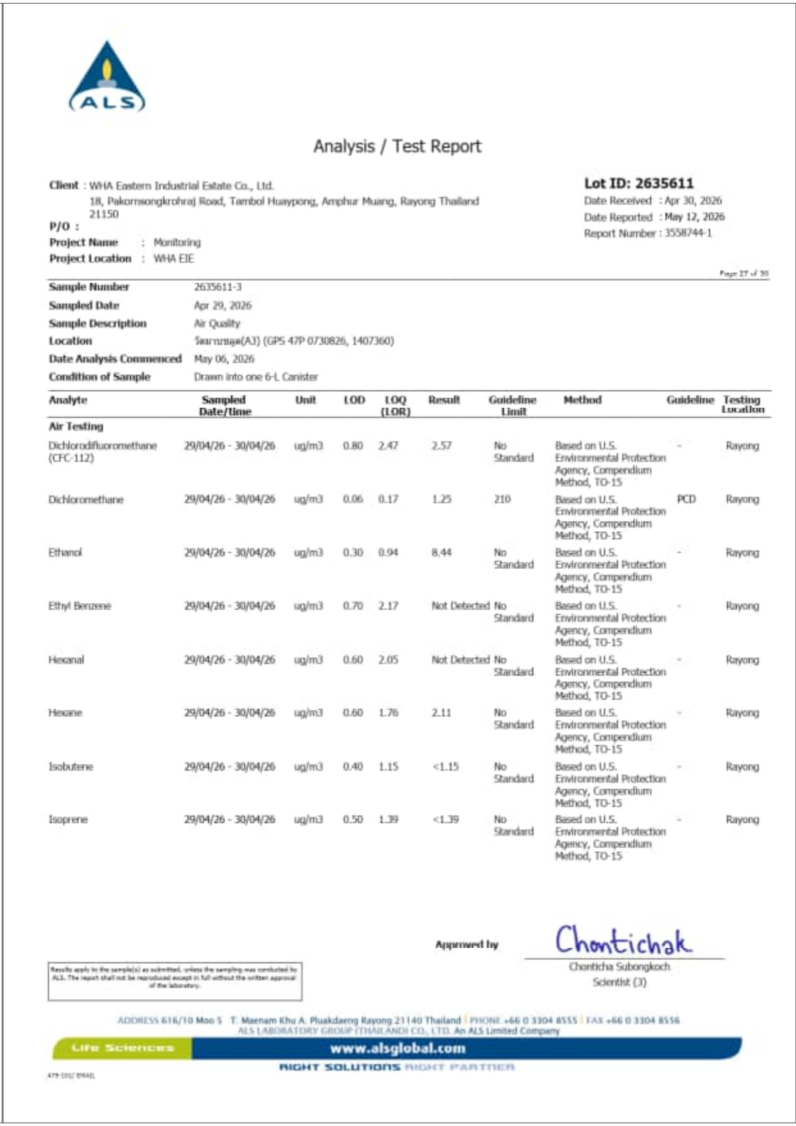
Sample Number	2635611-3
Sampled Date	Apr 29, 2026
Sample Description	Air Quality
Location	วัดมาบชลูด(A3) (GPS 47P 0730826, 1407360)
Date Analysis Commenced	May 06, 2026
Condition of Sample	Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Chlorodifluoromethane (HCFC-22)	29/04/26 - 30/04/26	ug/m3	0.60	1.77	<1.77	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Chloroethane	29/04/26 - 30/04/26	ug/m3	0.40	1.32	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Chloroform	29/04/26 - 30/04/26	ug/m3	0.08	0.24	Not Detected	57	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong
Chloromethane	29/04/26 - 30/04/26	ug/m3	0.30	1.03	1.65	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
cis-1,2-Dichloroethene	29/04/26 - 30/04/26	ug/m3	0.70	1.98	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
cis-1,3-Dichloropropene	29/04/26 - 30/04/26	ug/m3	0.80	2.27	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Cyclohexane	29/04/26 - 30/04/26	ug/m3	0.60	1.72	5.78	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Cyclopentane	29/04/26 - 30/04/26	ug/m3	0.50	1.43	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong

Approved by Chontichak
Chonticha Subongkoch
Scientist (3)



Analysis / Test Report

Client : WHA Eastern Industrial Estate Co., Ltd.
18, Pakornsongkrohraj Road, Tambol Huaypong, Amphur Muang, Rayong Thailand
21150
P/O :
Project Name : Monitoring
Project Location : WHA EIE

Lot ID: 2635611
Date Received : Apr 30, 2026
Date Reported : May 12, 2026
Report Number : 3558744-1

Sample Number	2635611-3
Sampled Date	Apr 29, 2026
Sample Description	Air Quality
Location	วัดมาบชลูด(A3) (GPS 47P 0730826, 1407360)
Date Analysis Commenced	May 06, 2026
Condition of Sample	Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Dichlorodifluoromethane (CFC-112)	29/04/26 - 30/04/26	ug/m3	0.80	2.47	2.57	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Dichloromethane	29/04/26 - 30/04/26	ug/m3	0.06	0.17	1.25	210	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong
Ethanol	29/04/26 - 30/04/26	ug/m3	0.30	0.94	8.44	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Ethyl Benzene	29/04/26 - 30/04/26	ug/m3	0.70	2.17	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Hexanal	29/04/26 - 30/04/26	ug/m3	0.60	2.05	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Hexane	29/04/26 - 30/04/26	ug/m3	0.60	1.76	2.11	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Isobutene	29/04/26 - 30/04/26	ug/m3	0.40	1.15	<1.15	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Isoprene	29/04/26 - 30/04/26	ug/m3	0.50	1.39	<1.39	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong

Approved by Chontichak
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Analysis / Test Report

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18, Pakornsongkrohraj Road, Tambol Huaypong, Amphur Muang, Rayong Thailand
21150
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Lot ID: 2635611
Date Received : Apr 30, 2026
Date Reported : May 12, 2026
Report Number : 3558744-1

Sample Number	2635611-3
Sampled Date	Apr 29, 2026
Sample Description	Air Quality
Location	วัดมาบชลูด(A3) (GPS 47P 0730826, 1407360)
Date Analysis Commenced	May 06, 2026
Condition of Sample	Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
m,p-Xylene	29/04/26 - 30/04/26	ug/m3	1.50	4.34	<4.34	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Methacrolein	29/04/26 - 30/04/26	ug/m3	0.50	1.43	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Methanol	29/04/26 - 30/04/26	ug/m3	0.20	0.66	22.85	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Methyl Ethyl Ketone	29/04/26 - 30/04/26	ug/m3	0.50	1.47	2.12	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Methyl Iodide	29/04/26 - 30/04/26	ug/m3	0.90	2.90	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Methyl Isobutyl Ketone	29/04/26 - 30/04/26	ug/m3	0.70	2.05	<2.05	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Methyl tert butyl ether	29/04/26 - 30/04/26	ug/m3	0.60	1.80	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Methyl Vinyl Ketone	29/04/26 - 30/04/26	ug/m3	0.50	1.43	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong

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Chonticha Subongkoch
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Analysis / Test Report

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18, Pakornsongkrohraj Road, Tambol Huaypong, Amphur Muang, Rayong Thailand
21150
P/O :
Project Name : Monitoring
Project Location : WHA EIE

Lot ID: 2635611
Date Received : Apr 30, 2026
Date Reported : May 12, 2026
Report Number : 3558744-1

Sample Number	2635611-3
Sampled Date	Apr 29, 2026
Sample Description	Air Quality
Location	วัดมาบชลูด(A3) (GPS 47P 0730826, 1407360)
Date Analysis Commenced	May 06, 2026
Condition of Sample	Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
o-Xylene	29/04/26 - 30/04/26	ug/m3	0.70	2.17	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Pentanal	29/04/26 - 30/04/26	ug/m3	0.50	1.76	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Pentane	29/04/26 - 30/04/26	ug/m3	0.50	1.48	2.01	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Propanal	29/04/26 - 30/04/26	ug/m3	0.50	1.19	<1.19	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Propene (Propylene)	29/04/26 - 30/04/26	ug/m3	0.30	0.86	2.10	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Styrene	29/04/26 - 30/04/26	ug/m3	0.70	2.13	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Tetrachloroethylene	29/04/26 - 30/04/26	ug/m3	0.11	0.34	Not Detected	400	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong
Toluene	29/04/26 - 30/04/26	ug/m3	0.60	1.88	4.45	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong

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Analysis / Test Report

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Sample Description	Air Quality
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Date Analysis Commenced	May 06, 2026
Condition of Sample	Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
trans-1,2-Dichloroethene	29/04/26 - 30/04/26	ug/m3	0.70	1.98	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
trans-1,3-Dichloropropene	29/04/26 - 30/04/26	ug/m3	0.80	2.27	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Trichloroethylene	29/04/26 - 30/04/26	ug/m3	0.09	0.27	Not Detected	130	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong
Trichlorofluoromethane (F-11)	29/04/26 - 30/04/26	ug/m3	0.90	2.81	<2.81	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Vinyl Acetate	29/04/26 - 30/04/26	ug/m3	0.60	1.76	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Vinyl Chloride	29/04/26 - 30/04/26	ug/m3	0.04	0.13	<0.13	20	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong

Guideline :
NEB : Notification of National Environment Board, B.E. 2560 (2017)
PCD : Notification of the Pollution Control Department, which was published in the Royal Government Gazette Vol. 126 Special Part 13 D dated January 27, B.E. 2552 (2009).
Sampled By : Nattakarn Vonginyoo

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

Approved by Chontichak
Chonticha Subongkoch
Scientist (3)

Analysis / Test Report

Client : WHA Eastern Industrial Estate Co., Ltd.
18, Pakornsongkrohraj Road, Tambol Huaypong, Amphur Muang, Rayong Thailand 21150

P/O :
Project Name : Monitoring
Project Location : WHA EIE

Lot ID: 2635605
Date Received :Apr 30, 2026
Date Reported :May 07, 2026
Report Number :3558740-1

Sample Number	2635605-1
Parameter	Wind Speed / Wind Direction
Location	สำนักงานนิคมอุตสาหกรรมดับบลิวเอชเอตะวันออก (มาบตาพุด) (A1) (GPS 47P 0730907, 1405264)
Sampling Date	Apr 29 - Apr 30, 2026
Sampling by	Nattakarn Vonginyoo

Time	Apr 29 - Apr 30, 2026			-			-			-			-			-			-		
	WS (m/s)	WD (deg)		-	-		-	-		-	-		-	-		-	-		-	-	
10:00 AM - 11:00 AM	2.1	184.0	S	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11:00 AM - 12:00 PM	0.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12:00 PM - 01:00 PM	1.2	48.0	NE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
01:00 PM - 02:00 PM	0.9	81.0	E	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
02:00 PM - 03:00 PM	0.6	232.0	SW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
03:00 PM - 04:00 PM	2.7	259.0	W	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
04:00 PM - 05:00 PM	2.8	183.0	S	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
05:00 PM - 06:00 PM	0.8	146.0	SE																		
06:00 PM - 07:00 PM	2.0	245.0	WSW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
07:00 PM - 08:00 PM	2.5	125.0	SE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
08:00 PM - 09:00 PM	0.6	113.0	ESE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
09:00 PM - 10:00 PM	3.6	119.0	ESE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10:00 PM - 11:00 PM	1.3	153.0	SSE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11:00 PM - 12:00 AM	1.8	151.0	SSE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12:00 AM - 01:00 AM	2.0	216.0	SW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
01:00 AM - 02:00 AM	0.8	247.0	WSW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
02:00 AM - 03:00 AM	2.0	255.0	WSW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
03:00 AM - 04:00 AM	3.3	114.0	ESE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
04:00 AM - 05:00 AM	0.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
05:00 AM - 06:00 AM	0.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
06:00 AM - 07:00 AM	0.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
07:00 AM - 08:00 AM	1.9	186.0	S	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
08:00 AM - 09:00 AM	2.4	108.0	ESE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
09:00 AM - 10:00 AM	1.3	127.0	SE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Reference Method : Cup Anemometer & Anodized Aluminium Vane Method

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

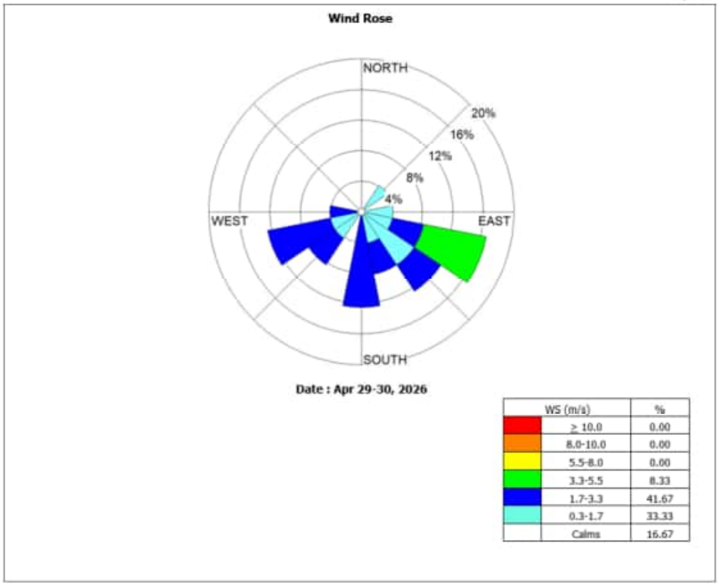
Approved by
Sarayuth Jittranont
Assistant General Manager

Analysis / Test Report

Client : WHA Eastern Industrial Estate Co., Ltd.
18, Pakornsongkrohraj Road, Tambol Huaypong, Amphur Muang, Rayong Thailand 21150

Lot ID: 2635605
Date Received :Apr 30, 2026
Date Reported :May 07, 2026
Report Number :3558740-1

P/O :
Project Name : Monitoring
Project Location : WHA EIE



	WS (m/s)	%
🟥	≥ 10.0	0.00
🟧	8.0-10.0	0.00
🟨	5.5-8.0	0.00
🟩	3.3-5.5	8.33
🟦	1.7-3.3	41.67
▨	0.3-1.7	33.33
	Calms	16.67

Location : สำนักงานนิคมอุตสาหกรรมดับบลิวเอชเอตะวันออก (มาบตาพุด) (A1) (GPS 47P 0730907, 1405264)

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Approved by
Sarayuth Jittranont
Assistant General Manager

Analysis / Test Report

Client : WHA Eastern Industrial Estate Co., Ltd.
18, Pakornsongkrohraj Road, Tambol Huaypong, Amphur Muang, Rayong Thailand 21150

Lot ID: 2635605
Date Received :Apr 30, 2026
Date Reported :May 07, 2026
Report Number :3558740-1

P/O :
Project Name : Monitoring
Project Location : WHA EIE

Sample Number 2635605-2
Parameter Wind Speed / Wind Direction
Location วัดหนองแฟบ (A2) (GPS 47P 0729828, 1403318)
Sampling Date Apr 29 - Apr 30, 2026
Sampling by Nattakarn Vonginyoo

Time	Apr 29 - Apr 30, 2026			-			-			-			-			-			-		
	WS (m/s)	WD (deg)		-	-		-	-		-	-		-	-		-	-		-	-	
11:00 AM - 12:00 PM	0.5	60.0	ENE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12:00 PM - 01:00 PM	0.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
01:00 PM - 02:00 PM	1.0	172.0	S	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
02:00 PM - 03:00 PM	2.5	196.0	SSW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
03:00 PM - 04:00 PM	0.6	166.0	SSE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
04:00 PM - 05:00 PM	0.9	189.0	S	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
05:00 PM - 06:00 PM	0.8	197.0	SSW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
06:00 PM - 07:00 PM	0.6	276.0	W																		
07:00 PM - 08:00 PM	1.3	206.0	SSW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
08:00 PM - 09:00 PM	0.3	181.0	S	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
09:00 PM - 10:00 PM	0.3	214.0	SW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10:00 PM - 11:00 PM	0.4	245.0	WSW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11:00 PM - 12:00 AM	1.3	168.0	SSE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12:00 AM - 01:00 AM	1.3	164.0	SSE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
01:00 AM - 02:00 AM	0.8	151.0	SSE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
02:00 AM - 03:00 AM	1.2	214.0	SW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
03:00 AM - 04:00 AM	0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
04:00 AM - 05:00 AM	0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
05:00 AM - 06:00 AM	0.5	177.0	S	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
06:00 AM - 07:00 AM	1.1	107.0	ESE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
07:00 AM - 08:00 AM	1.4	154.0	SSE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
08:00 AM - 09:00 AM	1.7	119.0	ESE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
09:00 AM - 10:00 AM	1.2	126.0	SE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10:00 AM - 11:00 AM	0.8	118.0	ESE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Reference Method : Cup Anemometer & Anodized Aluminium Vane Method

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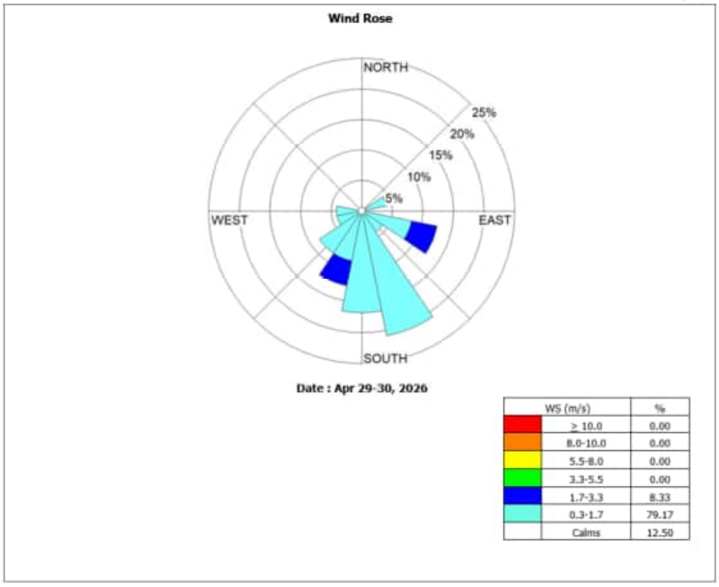
Approved by
Sarayuth Jittranont
Assistant General Manager

Analysis / Test Report

Client : WHA Eastern Industrial Estate Co., Ltd.
18, Pakornsongkrohraj Road, Tambol Huaypong, Amphur Muang, Rayong Thailand 21150

Lot ID: 2635605
Date Received :Apr 30, 2026
Date Reported :May 07, 2026
Report Number :3558740-1

P/O :
Project Name : Monitoring
Project Location : WHA EIE



	WS (m/s)	%
🟥	≥ 10.0	0.00
🟧	8.0-10.0	0.00
🟨	5.5-8.0	0.00
🟩	3.3-5.5	0.00
🟦	1.7-3.3	8.33
▨	0.3-1.7	79.17
	Calms	12.50

Location : วัดหนองแฟบ (A2) (GPS 47P 0729828, 1403318)

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Approved by
Sarayuth Jittranont
Assistant General Manager

Analysis / Test Report

Client : WHA Eastern Industrial Estate Co., Ltd.
18, Pakornsongkrohraj Road, Tambol Huaypong, Amphur Muang, Rayong Thailand 21150

Lot ID: 2635605
Date Received :Apr 30, 2026
Date Reported :May 07, 2026
Report Number :3558740-1

P/O :
Project Name : Monitoring
Project Location : WHA EIE

Sample Number 2635605-3
Parameter Wind Speed / Wind Direction
Location วัดมาบชลูด (A3) (GPS 47P 0730826, 1407360)
Sampling Date Apr 29 - Apr 30, 2026
Sampling by Nattakarn Vonginyoo

Time	Apr 29 - Apr 30, 2026			-			-			-			-			-			-		
	WS (m/s)	WD (deg)		-	-		-	-		-	-		-	-		-	-		-	-	
11:00 AM - 12:00 PM	0.9	351.0	N	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12:00 PM - 01:00 PM	0.8	8.0	N	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
01:00 PM - 02:00 PM	0.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
02:00 PM - 03:00 PM	1.4	147.0	SSE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
03:00 PM - 04:00 PM	0.9	258.0	WSW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
04:00 PM - 05:00 PM	1.1	193.0	SSW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
05:00 PM - 06:00 PM	0.9	175.0	S	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
06:00 PM - 07:00 PM	0.2																				
07:00 PM - 08:00 PM	0.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
08:00 PM - 09:00 PM	0.7	128.0	SE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
09:00 PM - 10:00 PM	0.4	196.0	SSW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10:00 PM - 11:00 PM	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11:00 PM - 12:00 AM	0.7	207.0	SSW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12:00 AM - 01:00 AM	1.7	151.0	SSE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
01:00 AM - 02:00 AM	0.5	218.0	SW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
02:00 AM - 03:00 AM	0.9	223.0	SW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
03:00 AM - 04:00 AM	0.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
04:00 AM - 05:00 AM	0.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
05:00 AM - 06:00 AM	0.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
06:00 AM - 07:00 AM	0.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
07:00 AM - 08:00 AM	1.2	130.0	SE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
08:00 AM - 09:00 AM	1.1	170.0	S	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
09:00 AM - 10:00 AM	0.9	161.0	SSE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10:00 AM - 11:00 AM	0.7	179.0	S	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Reference Method : Cup Anemometer & Anodized Aluminium Vane Method

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Approved by
Sarayuth Jittranont
Assistant General Manager

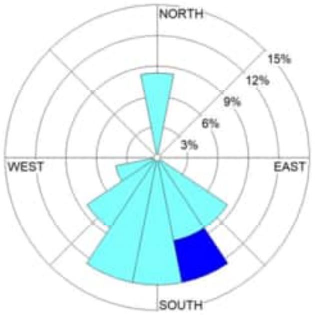
Analysis / Test Report

Client : WHA Eastern Industrial Estate Co., Ltd.
18, Pakornsongkrohraj Road, Tambol Huaypong, Amphur Muang, Rayong Thailand 21150

Lot ID: 2635605
Date Received :Apr 30, 2026
Date Reported :May 07, 2026
Report Number :3558740-1

P/O :
Project Name : Monitoring
Project Location : WHA EIE

Wind Rose



Date : Apr 29-30, 2026

	WS (m/s)	%
🟥	≥ 10.0	0.00
🟧	8.0-10.0	0.00
🟨	5.5-8.0	0.00
🟩	3.3-5.5	0.00
🟦	1.7-3.3	4.17
▨	0.3-1.7	62.50
	Calms	33.33

Location : วัดมาบชลูด (A3) (GPS 47P 0730826, 1407360)

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

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Sarayuth Jittranont
Assistant General Manager

Analysis / Test Report

Client : WHA Eastern Industrial Estate Co., Ltd.
18, Pakornsongkrohraj Road, Tambol Huaypong, Amphur Muang, Rayong Thailand 21150

Lot ID: 2635600
Date Received :Apr 30, 2026
Date Reported :May 06, 2026
Report Number :3558736-1

P/O :
Project Name : Monitoring
Project Location : WHA EIE

Sample Number	2635600-1
Parameter	Temperature
Location	สำนักงานนิคมอุตสาหกรรมดับบลิวเอชเอตะวันออก (มาบตาพุด) (A1) (GPS 47P 0730907, 1405264)
Sampling Date	Apr 29 - Apr 30, 2026
Sampling by	Siriwit Ruangsom

Time	Temperature (°C)							
	Apr 29 - Apr 30, 2026	-	-	-	-	-	-	-
10:00 AM - 11:00 AM	28.1	-	-	-	-	-	-	-
11:00 AM - 12:00 PM	27.9	-	-	-	-	-	-	-
12:00 PM - 01:00 PM	31.5	-	-	-	-	-	-	-
01:00 PM - 02:00 PM	32.6	-	-	-	-	-	-	-
02:00 PM - 03:00 PM	32.6	-	-	-	-	-	-	-
03:00 PM - 04:00 PM	30.8	-	-	-	-	-	-	-
04:00 PM - 05:00 PM	30.6	-	-	-	-	-	-	-
05:00 PM - 06:00 PM	30.1	-	-	-	-	-	-	-
06:00 PM - 07:00 PM	30.4	-	-	-	-	-	-	-
07:00 PM - 08:00 PM	29.3	-	-	-	-	-	-	-
08:00 PM - 09:00 PM	29.9	-	-	-	-	-	-	-
09:00 PM - 10:00 PM	29.7	-	-	-	-	-	-	-
10:00 PM - 11:00 PM	29.2	-	-	-	-	-	-	-
11:00 PM - 12:00 AM	29.7	-	-	-	-	-	-	-
12:00 AM - 01:00 AM	29.1	-	-	-	-	-	-	-
01:00 AM - 02:00 AM	29.8	-	-	-	-	-	-	-
02:00 AM - 03:00 AM	30.1	-	-	-	-	-	-	-
03:00 AM - 04:00 AM	30.8	-	-	-	-	-	-	-
04:00 AM - 05:00 AM	30.0	-	-	-	-	-	-	-
05:00 AM - 06:00 AM	30.4	-	-	-	-	-	-	-
06:00 AM - 07:00 AM	31.2	-	-	-	-	-	-	-
07:00 AM - 08:00 AM	32.3	-	-	-	-	-	-	-
08:00 AM - 09:00 AM	32.7	-	-	-	-	-	-	-
09:00 AM - 10:00 AM	33.8	-	-	-	-	-	-	-
Average – 24 hr	30.5	-	-	-	-	-	-	-
Max – 1 hr	33.8	-	-	-	-	-	-	-
Min – 1 hr	27.9	-	-	-	-	-	-	-

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Sarayuth Jittranont
Assistant General Manager

Analysis / Test Report

Client : WHA Eastern Industrial Estate Co., Ltd.
18, Pakornsongkrohraj Road, Tambol Huaypong, Amphur Muang, Rayong Thailand 21150

Lot ID: 2635600
Date Received :Apr 30, 2026
Date Reported :May 06, 2026
Report Number :3558736-1

P/O :
Project Name : Monitoring
Project Location : WHA EIE

Sample Number	2635600-2
Parameter	Temperature
Location	วัดหนองแฟบ (A2) (GPS 47P 0729828, 1403318)
Sampling Date	Apr 29 - Apr 30, 2026
Sampling by	Siriwit Ruangsom

Time	Temperature (°C)							
	Apr 29 - Apr 30, 2026	-	-	-	-	-	-	-
11:00 AM - 12:00 PM	28.7	-	-	-	-	-	-	-
12:00 PM - 01:00 PM	26.2	-	-	-	-	-	-	-
01:00 PM - 02:00 PM	31.7	-	-	-	-	-	-	-
02:00 PM - 03:00 PM	32.8	-	-	-	-	-	-	-
03:00 PM - 04:00 PM	32.6	-	-	-	-	-	-	-
04:00 PM - 05:00 PM	31.1	-	-	-	-	-	-	-
05:00 PM - 06:00 PM	30.4	-	-	-	-	-	-	-
06:00 PM - 07:00 PM	30.0	-	-	-	-	-	-	-
07:00 PM - 08:00 PM	30.0	-	-	-	-	-	-	-
08:00 PM - 09:00 PM	29.9	-	-	-	-	-	-	-
09:00 PM - 10:00 PM	29.9	-	-	-	-	-	-	-
10:00 PM - 11:00 PM	29.8	-	-	-	-	-	-	-
11:00 PM - 12:00 AM	29.7	-	-	-	-	-	-	-
12:00 AM - 01:00 AM	29.7	-	-	-	-	-	-	-
01:00 AM - 02:00 AM	29.3	-	-	-	-	-	-	-
02:00 AM - 03:00 AM	29.2	-	-	-	-	-	-	-
03:00 AM - 04:00 AM	29.2	-	-	-	-	-	-	-
04:00 AM - 05:00 AM	29.2	-	-	-	-	-	-	-
05:00 AM - 06:00 AM	29.4	-	-	-	-	-	-	-
06:00 AM - 07:00 AM	30.6	-	-	-	-	-	-	-
07:00 AM - 08:00 AM	31.5	-	-	-	-	-	-	-
08:00 AM - 09:00 AM	32.6	-	-	-	-	-	-	-
09:00 AM - 10:00 AM	32.9	-	-	-	-	-	-	-
10:00 AM - 11:00 AM	33.2	-	-	-	-	-	-	-
Average – 24 hr	30.4	-	-	-	-	-	-	-
Max – 1 hr	33.2	-	-	-	-	-	-	-
Min – 1 hr	26.2	-	-	-	-	-	-	-

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Approved by
Sarayuth Jittranont
Assistant General Manager

Analysis / Test Report

Client : WHA Eastern Industrial Estate Co., Ltd.
18, Pakornsongkrohraj Road, Tambol Huaypong, Amphur Muang, Rayong Thailand 21150

Lot ID: 2635600
Date Received :Apr 30, 2026
Date Reported :May 06, 2026
Report Number :3558736-1

P/O :
Project Name : Monitoring
Project Location : WHA EIE

Sample Number	2635600-3
Parameter	Temperature
Location	วัดมาบชลูด (A3) (GPS 47P 0730826, 1407360)
Sampling Date	Apr 29 - Apr 30, 2026
Sampling by	Siriwit Ruangsom

Time	Temperature (°C)							
	Apr 29 - Apr 30, 2026	-	-	-	-	-	-	-
11:00 AM - 12:00 PM	27.3	-	-	-	-	-	-	-
12:00 PM - 01:00 PM	27.1	-	-	-	-	-	-	-
01:00 PM - 02:00 PM	31.2	-	-	-	-	-	-	-
02:00 PM - 03:00 PM	32.1	-	-	-	-	-	-	-
03:00 PM - 04:00 PM	32.2	-	-	-	-	-	-	-
04:00 PM - 05:00 PM	31.6	-	-	-	-	-	-	-
05:00 PM - 06:00 PM	30.4	-	-	-	-	-	-	-
06:00 PM - 07:00 PM	30.0	-	-	-	-	-	-	-
07:00 PM - 08:00 PM	30.1	-	-	-	-	-	-	-
08:00 PM - 09:00 PM	29.7	-	-	-	-	-	-	-
09:00 PM - 10:00 PM	29.3	-	-	-	-	-	-	-
10:00 PM - 11:00 PM	30.1	-	-	-	-	-	-	-
11:00 PM - 12:00 AM	30.4	-	-	-	-	-	-	-
12:00 AM - 01:00 AM	30.6	-	-	-	-	-	-	-
01:00 AM - 02:00 AM	29.8	-	-	-	-	-	-	-
02:00 AM - 03:00 AM	29.6	-	-	-	-	-	-	-
03:00 AM - 04:00 AM	29.1	-	-	-	-	-	-	-
04:00 AM - 05:00 AM	29.4	-	-	-	-	-	-	-
05:00 AM - 06:00 AM	30.4	-	-	-	-	-	-	-
06:00 AM - 07:00 AM	31.2	-	-	-	-	-	-	-
07:00 AM - 08:00 AM	32.1	-	-	-	-	-	-	-
08:00 AM - 09:00 AM	32.8	-	-	-	-	-	-	-
09:00 AM - 10:00 AM	33.4	-	-	-	-	-	-	-
10:00 AM - 11:00 AM	33.7	-	-	-	-	-	-	-
Average – 24 hr	30.6	-	-	-	-	-	-	-
Max – 1 hr	33.7	-	-	-	-	-	-	-
Min – 1 hr	27.1	-	-	-	-	-	-	-

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Sarayuth Jittranont
Assistant General Manager

Analysis / Test Report

Client : WHA Eastern Industrial Estate Co., Ltd.
18, Pakornsongkrohraj Road, Tambol Huaypong, Amphur Muang, Rayong Thailand
21150
P/O :
Project Name : Monitoring
Project Location : WHA EIE

Lot ID: 2641567
Date Received : May 18, 2026
Date Reported : May 28, 2026
Report Number : 3571110-1

Sample Number	2641567-1
Sampled Date	May 15, 2026
Sample Description	Air Quality
Location	สำนักงานนิคมอุตสาหกรรมดับบลิวเอชเอตะวันออก(มาบตาพุด)(A1) (GPS 47P 0730907, 1405264)
Date Analysis Commenced	May 20, 2026
Condition of Sample	Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
1,1,1-Trichloroethane	15/05/26 - 16/05/26	ug/m3	0.90	2.73	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
1,1,2,2-Tetrachloroethane	15/05/26 - 16/05/26	ug/m3	0.10	0.34	Not Detected	83	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong
1,1,2-Trichloro-1,2,2-Trifluoroethane	15/05/26 - 16/05/26	ug/m3	1.00	3.83	<3.83	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
1,1,2-Trichloroethane	15/05/26 - 16/05/26	ug/m3	0.90	2.73	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
1,1-Dichloroethane	15/05/26 - 16/05/26	ug/m3	0.70	2.02	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
1,1-Dichloroethene	15/05/26 - 16/05/26	ug/m3	0.70	1.98	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
1,2,3-Trimethylbenzene	15/05/26 - 16/05/26	ug/m3	0.80	2.46	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
1,2,4-Trichlorobenzene	15/05/26 - 16/05/26	ug/m3	1.20	3.71	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong

Approved by Chontichak
Chonticha Subongkoch
Scientist (3)

Analysis / Test Report

Client : WHA Eastern Industrial Estate Co., Ltd.
18, Pakornsongkrohraj Road, Tambol Huaypong, Amphur Muang, Rayong Thailand
21150
P/O :
Project Name : Monitoring
Project Location : WHA EIE

Lot ID: 2641567
Date Received : May 18, 2026
Date Reported : May 28, 2026
Report Number : 3571110-1

Sample Number	2641567-1
Sampled Date	May 15, 2026
Sample Description	Air Quality
Location	สำนักงานนิคมอุตสาหกรรมดับบลิวเอชเอตะวันออก(มาบตาพุด)(A1) (GPS 47P 0730907, 1405264)
Date Analysis Commenced	May 20, 2026
Condition of Sample	Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
1,2,4-Trimethylbenzene	15/05/26 - 16/05/26	ug/m3	0.80	2.46	<2.46	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
1,2-Dibromoethane	15/05/26 - 16/05/26	ug/m3	0.10	0.38	<0.38	370	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong
1,2-Dichlorobenzene	15/05/26 - 16/05/26	ug/m3	0.20	0.60	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
1,2-Dichloroethane	15/05/26 - 16/05/26	ug/m3	0.07	0.20	Not Detected	48	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong
1,2-Dichloropropane	15/05/26 - 16/05/26	ug/m3	0.08	0.23	Not Detected	82	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong
1,2-Dichlorotetrafluoroethane	15/05/26 - 16/05/26	ug/m3	1.20	3.50	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
1,3,5-Trimethylbenzene	15/05/26 - 16/05/26	ug/m3	0.80	2.46	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
1,3-Butadiene	15/05/26 - 16/05/26	ug/m3	0.04	0.11	0.13	5.3	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong

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Air Testing									
1,3-Dichlorobenzene	15/05/26 - 16/05/26	ug/m3	0.20	0.60	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
1,4-Dichlorobenzene	15/05/26 - 16/05/26	ug/m3	0.20	0.60	Not Detected	1100	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong
1,4-Dioxane	15/05/26 - 16/05/26	ug/m3	0.10	0.36	Not Detected	860	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong
1-Butanol	15/05/26 - 16/05/26	ug/m3	0.50	1.52	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
1-Propanol	15/05/26 - 16/05/26	ug/m3	0.40	1.23	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
2-Hexanone	15/05/26 - 16/05/26	ug/m3	0.70	2.05	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
2-Pentanone	15/05/26 - 16/05/26	ug/m3	0.60	1.76	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
2-Propanol	15/05/26 - 16/05/26	ug/m3	0.40	1.23	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong

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Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
3-Hexanone	15/05/26 - 16/05/26	ug/m3	0.70	2.05	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
3-Pentanone	15/05/26 - 16/05/26	ug/m3	0.60	1.76	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Acetaldehyde	15/05/26 - 16/05/26	ug/m3	0.05	0.18	5.92	860	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong
Acetone	15/05/26 - 16/05/26	ug/m3	0.08	0.24	11.07	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Acetonitrile	15/05/26 - 16/05/26	ug/m3	0.30	0.84	1.74	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Acrolein	15/05/26 - 16/05/26	ug/m3	0.08	0.23	0.27	0.55	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong
Acrylonitrile	15/05/26 - 16/05/26	ug/m3	0.07	0.22	<0.22	10	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong
Benzene	15/05/26 - 16/05/26	ug/m3	0.05	0.16	0.70	7.6	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong

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Benzyl Chloride	15/05/26 - 16/05/26	ug/m3	0.17	0.52	Not Detected	12	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong
Bromodichloromethane	15/05/26 - 16/05/26	ug/m3	1.00	3.35	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Bromoform	15/05/26 - 16/05/26	ug/m3	1.00	5.17	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Bromomethane	15/05/26 - 16/05/26	ug/m3	0.06	0.19	2.10	190	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong
Butanal	15/05/26 - 16/05/26	ug/m3	0.49	1.47	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Carbon Disulfide	15/05/26 - 16/05/26	ug/m3	0.05	0.16	<0.16	100	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	NEB 2017	Rayong
Carbon Tetrachloride	15/05/26 - 16/05/26	ug/m3	0.10	0.31	Not Detected	150	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong
Chlorobenzene	15/05/26 - 16/05/26	ug/m3	0.80	2.30	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong

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Air Testing									
Chlorodifluoromethane (HCFC-22)	15/05/26 - 16/05/26	ug/m3	0.60	1.77	2.97	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Chloroethane	15/05/26 - 16/05/26	ug/m3	0.40	1.32	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Chloroform	15/05/26 - 16/05/26	ug/m3	0.08	0.24	<0.24	57	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong
Chloromethane	15/05/26 - 16/05/26	ug/m3	0.30	1.03	5.58	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
cis-1,2-Dichloroethene	15/05/26 - 16/05/26	ug/m3	0.70	1.98	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
cis-1,3-Dichloropropene	15/05/26 - 16/05/26	ug/m3	0.80	2.27	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Cyclohexane	15/05/26 - 16/05/26	ug/m3	0.60	1.72	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Cyclopentane	15/05/26 - 16/05/26	ug/m3	0.50	1.43	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong

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Date Analysis Commenced	May 20, 2026
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Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Dichlorodifluoromethane (CFC-112)	15/05/26 - 16/05/26	ug/m3	0.80	2.47	7.91	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Dichloromethane	15/05/26 - 16/05/26	ug/m3	0.06	0.17	0.56	210	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong
Ethanol	15/05/26 - 16/05/26	ug/m3	0.30	0.94	8.78	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Ethyl Benzene	15/05/26 - 16/05/26	ug/m3	0.70	2.17	<2.17	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Hexanal	15/05/26 - 16/05/26	ug/m3	0.60	2.05	2.62	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Hexane	15/05/26 - 16/05/26	ug/m3	0.60	1.76	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Isobutene	15/05/26 - 16/05/26	ug/m3	0.40	1.15	<1.15	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Isoprene	15/05/26 - 16/05/26	ug/m3	0.50	1.39	<1.39	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong

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Air Testing									
m,p-Xylene	15/05/26 - 16/05/26	ug/m3	1.50	4.34	8.86	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Methacrolein	15/05/26 - 16/05/26	ug/m3	0.50	1.43	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Methanol	15/05/26 - 16/05/26	ug/m3	0.20	0.66	21.07	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Methyl Ethyl Ketone	15/05/26 - 16/05/26	ug/m3	0.50	1.47	5.96	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Methyl Iodide	15/05/26 - 16/05/26	ug/m3	0.90	2.90	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Methyl Isobutyl Ketone	15/05/26 - 16/05/26	ug/m3	0.70	2.05	<2.05	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Methyl tert butyl ether	15/05/26 - 16/05/26	ug/m3	0.60	1.80	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Methyl Vinyl Ketone	15/05/26 - 16/05/26	ug/m3	0.50	1.43	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong

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Air Testing									
o-Xylene	15/05/26 - 16/05/26	ug/m3	0.70	2.17	<2.17	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Pentanal	15/05/26 - 16/05/26	ug/m3	0.50	1.76	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Pentane	15/05/26 - 16/05/26	ug/m3	0.50	1.48	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Propanal	15/05/26 - 16/05/26	ug/m3	0.50	1.19	<1.19	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Propene (Propylene)	15/05/26 - 16/05/26	ug/m3	0.30	0.86	1.65	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Styrene	15/05/26 - 16/05/26	ug/m3	0.70	2.13	<2.13	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Tetrachloroethylene	15/05/26 - 16/05/26	ug/m3	0.11	0.34	<0.34	400	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong
Toluene	15/05/26 - 16/05/26	ug/m3	0.60	1.88	<1.88	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong

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Air Testing									
trans-1,2-Dichloroethene	15/05/26 - 16/05/26	ug/m3	0.70	1.98	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
trans-1,3-Dichloropropene	15/05/26 - 16/05/26	ug/m3	0.80	2.27	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Trichloroethylene	15/05/26 - 16/05/26	ug/m3	0.09	0.27	Not Detected	130	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong
Trichlorofluoromethane (F-11)	15/05/26 - 16/05/26	ug/m3	0.90	2.81	<2.81	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Vinyl Acetate	15/05/26 - 16/05/26	ug/m3	0.60	1.76	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Vinyl Chloride	15/05/26 - 16/05/26	ug/m3	0.04	0.13	0.26	20	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong

Guideline :
NEB 2017 : Notification of National Environmental Board, B.E. 2560 (2017)
PCD : Notification of the Pollution Control Department, which was published in the Royal Government Gazette Vol. 126 Special Part 13 D dated January 27, B.E. 2552 (2009).
Sampled By : Anurak Tongkhajonsakda

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

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Report Number : 3571110-1

Sample Number 2641567-2
Sampled Date May 15, 2026
Sample Description Air Quality
Location วัดหนองแฟบ(A2) (GPS 47P 0729828, 1403318)
Date Analysis Commenced May 20, 2026
Condition of Sample Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
1,1,1-Trichloroethane	15/05/26 - 16/05/26	ug/m3	0.90	2.73	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
1,1,2,2-Tetrachloroethane	15/05/26 - 16/05/26	ug/m3	0.10	0.34	Not Detected	83	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong
1,1,2-Trichloro-1,2,2-Trifluoroethane	15/05/26 - 16/05/26	ug/m3	1.00	3.83	<3.83	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
1,1,2-Trichloroethane	15/05/26 - 16/05/26	ug/m3	0.90	2.73	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
1,1-Dichloroethane	15/05/26 - 16/05/26	ug/m3	0.70	2.02	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
1,1-Dichloroethene	15/05/26 - 16/05/26	ug/m3	0.70	1.98	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
1,2,3-Trimethylbenzene	15/05/26 - 16/05/26	ug/m3	0.80	2.46	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
1,2,4-Trichlorobenzene	15/05/26 - 16/05/26	ug/m3	1.20	3.71	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong

Approved by Chontichak
Chonticha Subongkoch
Scientist (3)

Analysis / Test Report

Client : WHA Eastern Industrial Estate Co., Ltd.
18, Pakornsongkrohraj Road, Tambol Huaypong, Amphur Muang, Rayong Thailand
21150
P/O :
Project Name : Monitoring
Project Location : WHA EIE

Lot ID: 2641567
Date Received : May 18, 2026
Date Reported : May 28, 2026
Report Number : 3571110-1

Sample Number 2641567-2
Sampled Date May 15, 2026
Sample Description Air Quality
Location วัดหนองแฟบ(A2) (GPS 47P 0729828, 1403318)
Date Analysis Commenced May 20, 2026
Condition of Sample Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
1,2,4-Trimethylbenzene	15/05/26 - 16/05/26	ug/m3	0.80	2.46	<2.46	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
1,2-Dibromoethane	15/05/26 - 16/05/26	ug/m3	0.10	0.38	0.61	370	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong
1,2-Dichlorobenzene	15/05/26 - 16/05/26	ug/m3	0.20	0.60	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
1,2-Dichloroethane	15/05/26 - 16/05/26	ug/m3	0.07	0.20	Not Detected	48	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong
1,2-Dichloropropane	15/05/26 - 16/05/26	ug/m3	0.08	0.23	Not Detected	82	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong
1,2-Dichlorotetrafluoroethane	15/05/26 - 16/05/26	ug/m3	1.20	3.50	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
1,3,5-Trimethylbenzene	15/05/26 - 16/05/26	ug/m3	0.80	2.46	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
1,3-Butadiene	15/05/26 - 16/05/26	ug/m3	0.04	0.11	0.22	5.3	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong

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Analysis / Test Report

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Lot ID: 2641567
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Date Reported : May 28, 2026
Report Number : 3571110-1

Sample Number 2641567-2
Sampled Date May 15, 2026
Sample Description Air Quality
Location วัดหนองแฟบ(A2) (GPS 47P 0729828, 1403318)
Date Analysis Commenced May 20, 2026
Condition of Sample Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
1,3-Dichlorobenzene	15/05/26 - 16/05/26	ug/m3	0.20	0.60	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
1,4-Dichlorobenzene	15/05/26 - 16/05/26	ug/m3	0.20	0.60	Not Detected	1100	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong
1,4-Dioxane	15/05/26 - 16/05/26	ug/m3	0.10	0.36	Not Detected	860	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong
1-Butanol	15/05/26 - 16/05/26	ug/m3	0.50	1.52	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
1-Propanol	15/05/26 - 16/05/26	ug/m3	0.40	1.23	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
2-Hexanone	15/05/26 - 16/05/26	ug/m3	0.70	2.05	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
2-Pentanone	15/05/26 - 16/05/26	ug/m3	0.60	1.76	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
2-Propanol	15/05/26 - 16/05/26	ug/m3	0.40	1.23	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong

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Analysis / Test Report

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Project Name : Monitoring
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Lot ID: 2641567
Date Received : May 18, 2026
Date Reported : May 28, 2026
Report Number : 3571110-1

Sample Number 2641567-2
Sampled Date May 15, 2026
Sample Description Air Quality
Location วัดหนองแฟบ(A2) (GPS 47P 0729828, 1403318)
Date Analysis Commenced May 20, 2026
Condition of Sample Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
3-Hexanone	15/05/26 - 16/05/26	ug/m3	0.70	2.05	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
3-Pentanone	15/05/26 - 16/05/26	ug/m3	0.60	1.76	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Acetaldehyde	15/05/26 - 16/05/26	ug/m3	0.05	0.18	8.77	860	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong
Acetone	15/05/26 - 16/05/26	ug/m3	0.08	0.24	9.69	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Acetonitrile	15/05/26 - 16/05/26	ug/m3	0.30	0.84	<0.84	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Acrolein	15/05/26 - 16/05/26	ug/m3	0.08	0.23	<0.23	0.55	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong
Acrylonitrile	15/05/26 - 16/05/26	ug/m3	0.07	0.22	<0.22	10	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong
Benzene	15/05/26 - 16/05/26	ug/m3	0.05	0.16	0.38	7.6	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong

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Sample Number 2641567-2
Sampled Date May 15, 2026
Sample Description Air Quality
Location วัดหนองแฟบ(A2) (GPS 47P 0729828, 1403318)
Date Analysis Commenced May 20, 2026
Condition of Sample Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Benzyl Chloride	15/05/26 - 16/05/26	ug/m3	0.17	0.52	<0.52	12	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong
Bromodichloromethane	15/05/26 - 16/05/26	ug/m3	1.00	3.35	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Bromoform	15/05/26 - 16/05/26	ug/m3	1.00	5.17	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Bromomethane	15/05/26 - 16/05/26	ug/m3	0.06	0.19	0.85	190	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong
Butanal	15/05/26 - 16/05/26	ug/m3	0.49	1.47	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Carbon Disulfide	15/05/26 - 16/05/26	ug/m3	0.05	0.16	<0.16	100	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	NEB 2017	Rayong
Carbon Tetrachloride	15/05/26 - 16/05/26	ug/m3	0.10	0.31	Not Detected	150	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong
Chlorobenzene	15/05/26 - 16/05/26	ug/m3	0.80	2.30	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong

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Analysis / Test Report

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Project Name : Monitoring
Project Location : WHA EIE

Lot ID: 2641567
Date Received : May 18, 2026
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Report Number : 3571110-1

Sample Number 2641567-2
Sampled Date May 15, 2026
Sample Description Air Quality
Location วัดหนองแฟบ(A2) (GPS 47P 0729828, 1403318)
Date Analysis Commenced May 20, 2026
Condition of Sample Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Chlorodifluoromethane (HCFC-22)	15/05/26 - 16/05/26	ug/m3	0.60	1.77	2.76	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Chloroethane	15/05/26 - 16/05/26	ug/m3	0.40	1.32	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Chloroform	15/05/26 - 16/05/26	ug/m3	0.08	0.24	Not Detected	57	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong
Chloromethane	15/05/26 - 16/05/26	ug/m3	0.30	1.03	5.25	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
cis-1,2-Dichloroethene	15/05/26 - 16/05/26	ug/m3	0.70	1.98	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
cis-1,3-Dichloropropene	15/05/26 - 16/05/26	ug/m3	0.80	2.27	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Cyclohexane	15/05/26 - 16/05/26	ug/m3	0.60	1.72	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Cyclopentane	15/05/26 - 16/05/26	ug/m3	0.50	1.43	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong

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Analysis / Test Report

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Project Name : Monitoring
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Lot ID: 2641567
Date Received : May 18, 2026
Date Reported : May 28, 2026
Report Number : 3571110-1

Sample Number	2641567-2
Sampled Date	May 15, 2026
Sample Description	Air Quality
Location	วัดหนองแฟบ(A2) (GPS 47P 0729828, 1403318)
Date Analysis Commenced	May 20, 2026
Condition of Sample	Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Dichlorodifluoromethane (CFC-112)	15/05/26 - 16/05/26	ug/m3	0.80	2.47	7.81	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Dichloromethane	15/05/26 - 16/05/26	ug/m3	0.06	0.17	0.49	210	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong
Ethanol	15/05/26 - 16/05/26	ug/m3	0.30	0.94	11.49	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Ethyl Benzene	15/05/26 - 16/05/26	ug/m3	0.70	2.17	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Hexanal	15/05/26 - 16/05/26	ug/m3	0.60	2.05	4.01	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Hexane	15/05/26 - 16/05/26	ug/m3	0.60	1.76	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Isobutene	15/05/26 - 16/05/26	ug/m3	0.40	1.15	1.33	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Isoprene	15/05/26 - 16/05/26	ug/m3	0.50	1.39	1.67	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong

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Report Number : 3571110-1

Sample Number	2641567-2
Sampled Date	May 15, 2026
Sample Description	Air Quality
Location	วัดหนองแฟบ(A2) (GPS 47P 0729828, 1403318)
Date Analysis Commenced	May 20, 2026
Condition of Sample	Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
m,p-Xylene	15/05/26 - 16/05/26	ug/m3	1.50	4.34	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Methacrolein	15/05/26 - 16/05/26	ug/m3	0.50	1.43	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Methanol	15/05/26 - 16/05/26	ug/m3	0.20	0.66	15.41	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Methyl Ethyl Ketone	15/05/26 - 16/05/26	ug/m3	0.50	1.47	3.48	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Methyl Iodide	15/05/26 - 16/05/26	ug/m3	0.90	2.90	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Methyl Isobutyl Ketone	15/05/26 - 16/05/26	ug/m3	0.70	2.05	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Methyl tert butyl ether	15/05/26 - 16/05/26	ug/m3	0.60	1.80	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Methyl Vinyl Ketone	15/05/26 - 16/05/26	ug/m3	0.50	1.43	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong

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Lot ID: 2641567
Date Received : May 18, 2026
Date Reported : May 28, 2026
Report Number : 3571110-1

Sample Number	2641567-2
Sampled Date	May 15, 2026
Sample Description	Air Quality
Location	วัดหนองแฟบ(A2) (GPS 47P 0729828, 1403318)
Date Analysis Commenced	May 20, 2026
Condition of Sample	Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
o-Xylene	15/05/26 - 16/05/26	ug/m3	0.70	2.17	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Pentanal	15/05/26 - 16/05/26	ug/m3	0.50	1.76	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Pentane	15/05/26 - 16/05/26	ug/m3	0.50	1.48	<1.48	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Propanal	15/05/26 - 16/05/26	ug/m3	0.50	1.19	<1.19	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Propene (Propylene)	15/05/26 - 16/05/26	ug/m3	0.30	0.86	2.55	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Styrene	15/05/26 - 16/05/26	ug/m3	0.70	2.13	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Tetrachloroethylene	15/05/26 - 16/05/26	ug/m3	0.11	0.34	<0.34	400	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong
Toluene	15/05/26 - 16/05/26	ug/m3	0.60	1.88	<1.88	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong

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Analysis / Test Report

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Project Location : WHA EIE

Lot ID: 2641567
Date Received : May 18, 2026
Date Reported : May 28, 2026
Report Number : 3571110-1

Sample Number	2641567-2
Sampled Date	May 15, 2026
Sample Description	Air Quality
Location	วัดหนองแฟบ(A2) (GPS 47P 0729828, 1403318)
Date Analysis Commenced	May 20, 2026
Condition of Sample	Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
trans-1,2-Dichloroethene	15/05/26 - 16/05/26	ug/m3	0.70	1.98	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
trans-1,3-Dichloropropene	15/05/26 - 16/05/26	ug/m3	0.80	2.27	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Trichloroethylene	15/05/26 - 16/05/26	ug/m3	0.09	0.27	Not Detected	130	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong
Trichlorofluoromethane (F-11)	15/05/26 - 16/05/26	ug/m3	0.90	2.81	<2.81	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Vinyl Acetate	15/05/26 - 16/05/26	ug/m3	0.60	1.76	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Vinyl Chloride	15/05/26 - 16/05/26	ug/m3	0.04	0.13	0.26	20	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong

Guideline :
NEB 2017 : Notification of National Environmental Board, B.E. 2560 (2017)
PCD : Notification of the Pollution Control Department, which was published in the Royal Government Gazette Vol. 126 Special Part 13 D dated January 27, B.E. 2552 (2009).
Sampled By : Anurak Tongkhajonsakda

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

Approved by Chontichak
Chonticha Subongkoch
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Analysis / Test Report

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Project Name : Monitoring
Project Location : WHA EIE

Lot ID: 2641567
Date Received : May 18, 2026
Date Reported : May 28, 2026
Report Number : 3571110-1

Sample Number	2641567-3
Sampled Date	May 15, 2026
Sample Description	Air Quality
Location	วัดมาบชลูด(A3) (GPS 47P 0730826, 1407360)
Date Analysis Commenced	May 20, 2026
Condition of Sample	Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
1,1,1-Trichloroethane	15/05/26 - 16/05/26	ug/m3	0.90	2.73	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
1,1,2,2-Tetrachloroethane	15/05/26 - 16/05/26	ug/m3	0.10	0.34	Not Detected	83	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong
1,1,2-Trichloro-1,2,2-Trifluoroethane	15/05/26 - 16/05/26	ug/m3	1.00	3.83	<3.83	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
1,1,2-Trichloroethane	15/05/26 - 16/05/26	ug/m3	0.90	2.73	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
1,1-Dichloroethane	15/05/26 - 16/05/26	ug/m3	0.70	2.02	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
1,1-Dichloroethene	15/05/26 - 16/05/26	ug/m3	0.70	1.98	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
1,2,3-Trimethylbenzene	15/05/26 - 16/05/26	ug/m3	0.80	2.46	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
1,2,4-Trichlorobenzene	15/05/26 - 16/05/26	ug/m3	1.20	3.71	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong

Approved by Chontichak
Chonticha Subongkoch
Scientist (3)

Analysis / Test Report

Client : WHA Eastern Industrial Estate Co., Ltd.
18, Pakornsongkrohraj Road, Tambol Huaypong, Amphur Muang, Rayong Thailand
21150
P/O :
Project Name : Monitoring
Project Location : WHA EIE

Lot ID: 2641567
Date Received : May 18, 2026
Date Reported : May 28, 2026
Report Number : 3571110-1

Sample Number	2641567-3
Sampled Date	May 15, 2026
Sample Description	Air Quality
Location	วัดมาบชลูด(A3) (GPS 47P 0730826, 1407360)
Date Analysis Commenced	May 20, 2026
Condition of Sample	Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
1,2,4-Trimethylbenzene	15/05/26 - 16/05/26	ug/m3	0.80	2.46	<2.46	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
1,2-Dibromoethane	15/05/26 - 16/05/26	ug/m3	0.10	0.38	<0.38	370	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong
1,2-Dichlorobenzene	15/05/26 - 16/05/26	ug/m3	0.20	0.60	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
1,2-Dichloroethane	15/05/26 - 16/05/26	ug/m3	0.07	0.20	Not Detected	48	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong
1,2-Dichloropropane	15/05/26 - 16/05/26	ug/m3	0.08	0.23	Not Detected	82	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong
1,2-Dichlorotetrafluoroethane	15/05/26 - 16/05/26	ug/m3	1.20	3.50	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
1,3,5-Trimethylbenzene	15/05/26 - 16/05/26	ug/m3	0.80	2.46	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
1,3-Butadiene	15/05/26 - 16/05/26	ug/m3	0.04	0.11	0.18	5.3	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong

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Analysis / Test Report

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21150
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Sample Number	2641567-3
Sampled Date	May 15, 2026
Sample Description	Air Quality
Location	วัดมาบชลูด(A3) (GPS 47P 0730826, 1407360)
Date Analysis Commenced	May 20, 2026
Condition of Sample	Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
1,3-Dichlorobenzene	15/05/26 - 16/05/26	ug/m3	0.20	0.60	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
1,4-Dichlorobenzene	15/05/26 - 16/05/26	ug/m3	0.20	0.60	Not Detected	1100	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong
1,4-Dioxane	15/05/26 - 16/05/26	ug/m3	0.10	0.36	Not Detected	860	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong
1-Butanol	15/05/26 - 16/05/26	ug/m3	0.50	1.52	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
1-Propanol	15/05/26 - 16/05/26	ug/m3	0.40	1.23	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
2-Hexanone	15/05/26 - 16/05/26	ug/m3	0.70	2.05	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
2-Pentanone	15/05/26 - 16/05/26	ug/m3	0.60	1.76	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
2-Propanol	15/05/26 - 16/05/26	ug/m3	0.40	1.23	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong

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Analysis / Test Report

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Lot ID: 2641567
Date Received : May 18, 2026
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Sampled Date	May 15, 2026
Sample Description	Air Quality
Location	วัดมาบชลูด(A3) (GPS 47P 0730826, 1407360)
Date Analysis Commenced	May 20, 2026
Condition of Sample	Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
3-Hexanone	15/05/26 - 16/05/26	ug/m3	0.70	2.05	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
3-Pentanone	15/05/26 - 16/05/26	ug/m3	0.60	1.76	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Acetaldehyde	15/05/26 - 16/05/26	ug/m3	0.05	0.18	6.53	860	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong
Acetone	15/05/26 - 16/05/26	ug/m3	0.08	0.24	4.99	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Acetonitrile	15/05/26 - 16/05/26	ug/m3	0.30	0.84	<0.84	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Acrolein	15/05/26 - 16/05/26	ug/m3	0.08	0.23	<0.23	0.55	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong
Acrylonitrile	15/05/26 - 16/05/26	ug/m3	0.07	0.22	<0.22	10	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong
Benzene	15/05/26 - 16/05/26	ug/m3	0.05	0.16	0.45	7.6	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong

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Analysis / Test Report

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Location วัดมาบชลูด(A3) (GPS 47P 0730826, 1407360)
Date Analysis Commenced May 20, 2026
Condition of Sample Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Benzyl Chloride	15/05/26 - 16/05/26	ug/m3	0.17	0.52	Not Detected	12	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong
Bromodichloromethane	15/05/26 - 16/05/26	ug/m3	1.00	3.35	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Bromoform	15/05/26 - 16/05/26	ug/m3	1.00	5.17	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Bromomethane	15/05/26 - 16/05/26	ug/m3	0.06	0.19	0.31	190	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong
Butanal	15/05/26 - 16/05/26	ug/m3	0.49	1.47	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Carbon Disulfide	15/05/26 - 16/05/26	ug/m3	0.05	0.16	<0.16	100	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	NEB 2017	Rayong
Carbon Tetrachloride	15/05/26 - 16/05/26	ug/m3	0.10	0.31	Not Detected	150	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong
Chlorobenzene	15/05/26 - 16/05/26	ug/m3	0.80	2.30	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong

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Analysis / Test Report

Client : WHA Eastern Industrial Estate Co., Ltd.
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21150
P/O :
Project Name : Monitoring
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Lot ID: 2641567
Date Received : May 18, 2026
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Sample Number 2641567-3
Sampled Date May 15, 2026
Sample Description Air Quality
Location วัดมาบชลูด(A3) (GPS 47P 0730826, 1407360)
Date Analysis Commenced May 20, 2026
Condition of Sample Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Chlorodifluoromethane (HCFC-22)	15/05/26 - 16/05/26	ug/m3	0.60	1.77	2.19	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Chloroethane	15/05/26 - 16/05/26	ug/m3	0.40	1.32	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Chloroform	15/05/26 - 16/05/26	ug/m3	0.08	0.24	Not Detected	57	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong
Chloromethane	15/05/26 - 16/05/26	ug/m3	0.30	1.03	2.97	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
cis-1,2-Dichloroethene	15/05/26 - 16/05/26	ug/m3	0.70	1.98	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
cis-1,3-Dichloropropene	15/05/26 - 16/05/26	ug/m3	0.80	2.27	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Cyclohexane	15/05/26 - 16/05/26	ug/m3	0.60	1.72	<1.72	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Cyclopentane	15/05/26 - 16/05/26	ug/m3	0.50	1.43	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong

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Analysis / Test Report

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21150
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Project Name : Monitoring
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Lot ID: 2641567
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Sample Number 2641567-3
Sampled Date May 15, 2026
Sample Description Air Quality
Location วัดมาบชลูด(A3) (GPS 47P 0730826, 1407360)
Date Analysis Commenced May 20, 2026
Condition of Sample Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Dichlorodifluoromethane (CFC-112)	15/05/26 - 16/05/26	ug/m3	0.80	2.47	6.03	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Dichloromethane	15/05/26 - 16/05/26	ug/m3	0.06	0.17	0.63	210	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong
Ethanol	15/05/26 - 16/05/26	ug/m3	0.30	0.94	7.50	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Ethyl Benzene	15/05/26 - 16/05/26	ug/m3	0.70	2.17	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Hexanal	15/05/26 - 16/05/26	ug/m3	0.60	2.05	<2.05	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Hexane	15/05/26 - 16/05/26	ug/m3	0.60	1.76	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Isobutene	15/05/26 - 16/05/26	ug/m3	0.40	1.15	<1.15	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Isoprene	15/05/26 - 16/05/26	ug/m3	0.50	1.39	2.06	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong

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21150
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Sample Number 2641567-3
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Sample Description Air Quality
Location วัดมาบชลูด(A3) (GPS 47P 0730826, 1407360)
Date Analysis Commenced May 20, 2026
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Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
m,p-Xylene	15/05/26 - 16/05/26	ug/m3	1.50	4.34	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Methacrolein	15/05/26 - 16/05/26	ug/m3	0.50	1.43	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Methanol	15/05/26 - 16/05/26	ug/m3	0.20	0.66	3.85	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Methyl Ethyl Ketone	15/05/26 - 16/05/26	ug/m3	0.50	1.47	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Methyl Iodide	15/05/26 - 16/05/26	ug/m3	0.90	2.90	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Methyl Isobutyl Ketone	15/05/26 - 16/05/26	ug/m3	0.70	2.05	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Methyl tert butyl ether	15/05/26 - 16/05/26	ug/m3	0.60	1.80	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Methyl Vinyl Ketone	15/05/26 - 16/05/26	ug/m3	0.50	1.43	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong

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Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
o-Xylene	15/05/26 - 16/05/26	ug/m3	0.70	2.17	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Pentanal	15/05/26 - 16/05/26	ug/m3	0.50	1.76	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Pentane	15/05/26 - 16/05/26	ug/m3	0.50	1.48	<1.48	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Propanal	15/05/26 - 16/05/26	ug/m3	0.50	1.19	<1.19	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Propene (Propylene)	15/05/26 - 16/05/26	ug/m3	0.30	0.86	1.86	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Styrene	15/05/26 - 16/05/26	ug/m3	0.70	2.13	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Tetrachloroethylene	15/05/26 - 16/05/26	ug/m3	0.11	0.34	<0.34	400	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong
Toluene	15/05/26 - 16/05/26	ug/m3	0.60	1.88	1.88	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong

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Analysis / Test Report

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Location	วัดมาบชลูด(A3) (GPS 47P 0730826, 1407360)
Date Analysis Commenced	May 20, 2026
Condition of Sample	Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
trans-1,2-Dichloroethene	15/05/26 - 16/05/26	ug/m3	0.70	1.98	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
trans-1,3-Dichloropropene	15/05/26 - 16/05/26	ug/m3	0.80	2.27	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Trichloroethylene	15/05/26 - 16/05/26	ug/m3	0.09	0.27	Not Detected	130	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong
Trichlorofluoromethane (F-11)	15/05/26 - 16/05/26	ug/m3	0.90	2.81	<2.81	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Vinyl Acetate	15/05/26 - 16/05/26	ug/m3	0.60	1.76	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Vinyl Chloride	15/05/26 - 16/05/26	ug/m3	0.04	0.13	0.15	20	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong

Guideline :
NEB 2017 : Notification of National Environmental Board, B.E. 2560 (2017)
PCD : Notification of the Pollution Control Department, which was published in the Royal Government Gazette Vol. 126 Special Part 13 D dated January 27, B.E. 2552 (2009).
Sampled By : Anurak Tongkhajonsakda

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

Approved by Chontichak
Chonticha Subongkoch
Scientist (3)

Analysis / Test Report

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P/O :
Project Name : Monitoring
Project Location : WHA EIE

Lot ID: 2641571
Date Received :May 16, 2026
Date Reported :May 22, 2026
Report Number :3571112-1

Sample Number	2641571-1
Parameter	Wind Speed / Wind Direction
Location	สำนักงานนิคมอุตสาหกรรมดับบลิวเอชเอตะวันออก (มาบตาพุด) (A1) (GPS 47P 0730907, 1405264)
Sampling Date	May 15 - May 16, 2026
Sampling by	Anurak Tongkhajonsakda

Time	May 15 - May 16, 2026			-			-			-			-			-			-		
	WS (m/s)	WD (deg)		-	-		-	-		-	-		-	-		-	-		-	-	
10:00 AM - 11:00 AM	1.8	82.0	E	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11:00 AM - 12:00 PM	0.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12:00 PM - 01:00 PM	1.3	103.0	ESE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
01:00 PM - 02:00 PM	2.4	100.0	E	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
02:00 PM - 03:00 PM	0.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
03:00 PM - 04:00 PM	1.0	108.0	ESE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
04:00 PM - 05:00 PM	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
05:00 PM - 06:00 PM	0.0																				
06:00 PM - 07:00 PM	0.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
07:00 PM - 08:00 PM	0.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
08:00 PM - 09:00 PM	0.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
09:00 PM - 10:00 PM	0.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10:00 PM - 11:00 PM	0.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11:00 PM - 12:00 AM	0.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12:00 AM - 01:00 AM	0.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
01:00 AM - 02:00 AM	0.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
02:00 AM - 03:00 AM	0.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
03:00 AM - 04:00 AM	0.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
04:00 AM - 05:00 AM	0.3	60.0	ENE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
05:00 AM - 06:00 AM	0.6	0.0	N	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
06:00 AM - 07:00 AM	0.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
07:00 AM - 08:00 AM	0.5	87.0	E	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
08:00 AM - 09:00 AM	0.6	82.0	E	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
09:00 AM - 10:00 AM	0.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Reference Method : Cup Anemometer & Anodized Aluminum Vane Method

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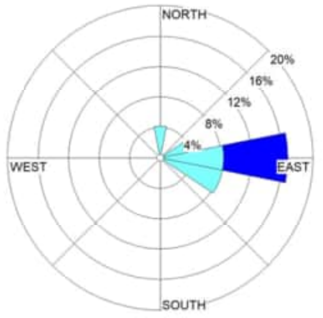
Approved by
Sarayuth Jittranont
Assistant General Manager

Analysis / Test Report

Client : WHA Eastern Industrial Estate Co., Ltd.
18, Pakornsongkrohraj Road, Tambol Huaypong, Amphur Muang, Rayong Thailand 21150
P/O :
Project Name : Monitoring
Project Location : WHA EIE

Lot ID: 2641571
Date Received :May 16, 2026
Date Reported :May 22, 2026
Report Number :3571112-1

Wind Rose



Date : May 15-16, 2026

WS (m/s)		%
🟥	≥ 10.0	0.00
🟧	8.0-10.0	0.00
🟨	5.5-8.0	0.00
🟩	3.3-5.5	0.00
🟦	1.7-3.3	8.33
▨	0.3-1.7	25.00
	Calms	66.67

Location : สำนักงานนิคมอุตสาหกรรมดับบลิวเอชเอตะวันออก (มาบตาพุด) (A1) (GPS 47P 0730907, 1405264)

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Sarayuth Jittranont
Assistant General Manager

Analysis / Test Report

Client : WHA Eastern Industrial Estate Co., Ltd.
18, Pakornsongkrohraj Road, Tambol Huaypong, Amphur Muang, Rayong Thailand 21150

Lot ID: 2641571
Date Received :May 16, 2026
Date Reported :May 22, 2026
Report Number :3571112-1

P/O :
Project Name : Monitoring
Project Location : WHA EIE

Sample Number	2641571-2
Parameter	Wind Speed / Wind Direction
Location	วัดหนองแฟบ (A2) (GPS 47P 0729828, 1403318)
Sampling Date	May 15 - May 16, 2026
Sampling by	Anurak Tongkhajonsakda

Time	May 15 - May 16, 2026			-			-			-			-			-			-		
	WS (m/s)	WD (deg)		-	-		-	-		-	-		-	-		-	-		-	-	
10:00 AM - 11:00 AM	2.9	258.0	WSW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11:00 AM - 12:00 PM	1.2	258.0	WSW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12:00 PM - 01:00 PM	2.4	254.0	WSW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
01:00 PM - 02:00 PM	2.4	232.0	SW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
02:00 PM - 03:00 PM	3.4	237.0	WSW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
03:00 PM - 04:00 PM	2.0	248.0	WSW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
04:00 PM - 05:00 PM	2.7	244.0	WSW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
05:00 PM - 06:00 PM	3.4	248.0	WSW																		
06:00 PM - 07:00 PM	0.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
07:00 PM - 08:00 PM	0.6	258.0	WSW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
08:00 PM - 09:00 PM	0.3	271.0	W	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
09:00 PM - 10:00 PM	0.6	249.0	WSW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10:00 PM - 11:00 PM	2.9	272.0	W	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11:00 PM - 12:00 AM	3.0	258.0	WSW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12:00 AM - 01:00 AM	2.1	258.0	WSW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
01:00 AM - 02:00 AM	2.7	273.0	W	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
02:00 AM - 03:00 AM	0.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
03:00 AM - 04:00 AM	1.1	262.0	W	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
04:00 AM - 05:00 AM	2.0	256.0	WSW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
05:00 AM - 06:00 AM	1.0	265.0	W	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
06:00 AM - 07:00 AM	0.8	289.0	WNW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
07:00 AM - 08:00 AM	1.0	277.0	W	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
08:00 AM - 09:00 AM	2.4	203.0	SSW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
09:00 AM - 10:00 AM	1.6	218.0	SW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Reference Method : Cup Anemometer & Anodized Aluminium Vane Method

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Approved by

Sarayuth Jittranont
Assistant General Manager

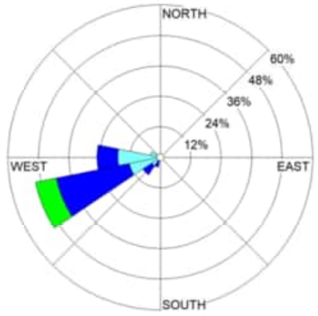
Analysis / Test Report

Client : WHA Eastern Industrial Estate Co., Ltd.
18, Pakornsongkrohraj Road, Tambol Huaypong, Amphur Muang, Rayong Thailand 21150

Lot ID: 2641571
Date Received :May 16, 2026
Date Reported :May 22, 2026
Report Number :3571112-1

P/O :
Project Name : Monitoring
Project Location : WHA EIE

Wind Rose



Date : May 15-16, 2026

	WS (m/s)	%
🟥	≥ 10.0	0.00
🟧	8.0-10.0	0.00
🟨	5.5-8.0	0.00
🟩	3.3-5.5	8.33
🟦	1.7-3.3	45.83
▨	0.3-1.7	37.50
⬜	Calms	8.33

Location : วัดหนองแฟบ (A2) (GPS 47P 0729828, 1403318)

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Sarayuth Jittranont
Assistant General Manager

Analysis / Test Report

Client : WHA Eastern Industrial Estate Co., Ltd.
18, Pakornsongkrohraj Road, Tambol Huaypong, Amphur Muang, Rayong Thailand 21150

Lot ID: 2641571
Date Received :May 16, 2026
Date Reported :May 22, 2026
Report Number :3571112-1

P/O :
Project Name : Monitoring
Project Location : WHA EIE

Sample Number	2641571-3
Parameter	Wind Speed / Wind Direction
Location	วัดมาบชลูด (A3) (GPS 47P 0730826, 1407360)
Sampling Date	May 15 - May 16, 2026
Sampling by	Anurak Tongkhajonsakda

Time	May 15 - May 16, 2026			-			-			-			-			-			-		
	WS (m/s)	WD (deg)		-	-		-	-		-	-		-	-		-	-		-	-	
10:00 AM - 11:00 AM	1.3	111.0	ESE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11:00 AM - 12:00 PM	0.8	98.0	E	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12:00 PM - 01:00 PM	1.1	146.0	SE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
01:00 PM - 02:00 PM	0.9	98.0	E	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
02:00 PM - 03:00 PM	0.7	91.0	E	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
03:00 PM - 04:00 PM	0.5	140.0	SE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
04:00 PM - 05:00 PM	0.7	119.0	ESE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
05:00 PM - 06:00 PM	0.2																				
06:00 PM - 07:00 PM	0.4	120.0	ESE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
07:00 PM - 08:00 PM	0.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
08:00 PM - 09:00 PM	0.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
09:00 PM - 10:00 PM	0.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10:00 PM - 11:00 PM	0.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11:00 PM - 12:00 AM	0.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12:00 AM - 01:00 AM	0.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
01:00 AM - 02:00 AM	0.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
02:00 AM - 03:00 AM	0.3	52.0	NE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
03:00 AM - 04:00 AM	0.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
04:00 AM - 05:00 AM	0.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
05:00 AM - 06:00 AM	0.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
06:00 AM - 07:00 AM	0.5	0.0	N	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
07:00 AM - 08:00 AM	0.3	94.0	E	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
08:00 AM - 09:00 AM	0.7	83.0	E	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
09:00 AM - 10:00 AM	1.2	90.0	E	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Reference Method : Cup Anemometer & Anodized Aluminium Vane Method

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Approved by

Sarayuth Jittranont
Assistant General Manager

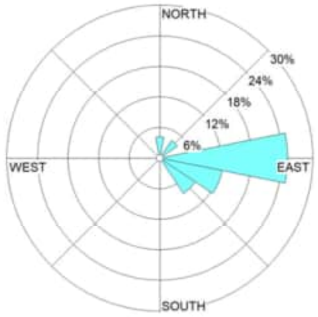
Analysis / Test Report

Client : WHA Eastern Industrial Estate Co., Ltd.
18, Pakornsongkrohraj Road, Tambol Huaypong, Amphur Muang, Rayong Thailand 21150

Lot ID: 2641571
Date Received :May 16, 2026
Date Reported :May 22, 2026
Report Number :3571112-1

P/O :
Project Name : Monitoring
Project Location : WHA EIE

Wind Rose



Date : May 15-16, 2026

	WS (m/s)	%
🟥	≥ 10.0	0.00
🟧	8.0-10.0	0.00
🟨	5.5-8.0	0.00
🟩	3.3-5.5	0.00
🟦	1.7-3.3	0.00
▨	0.3-1.7	54.17
⬜	Calms	45.83

Location : วัดมาบชลูด (A3) (GPS 47P 0730826, 1407360)

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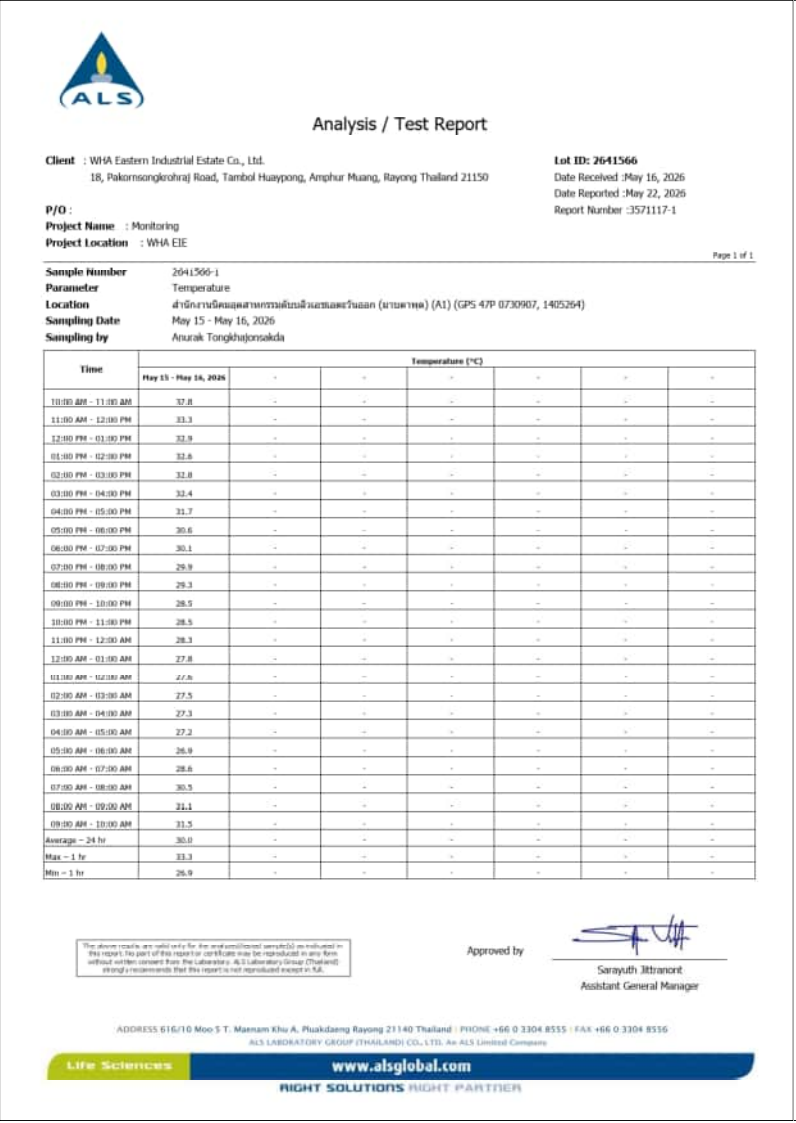
Approved by

Sarayuth Jittranont
Assistant General Manager



Analysis / Test Report

Client : WHA Eastern Industrial Estate Co., Ltd.
18, Pakornsongkrohraj Road, Tambol Huaypong, Amphur Muang, Rayong Thailand 21150

Lot ID: 2641566
Date Received :May 16, 2026
Date Reported :May 22, 2026
Report Number :3571117-1

P/O :
Project Name : Monitoring
Project Location : WHA EIE

Page 1 of 1

Sample Number 2641566-1
Parameter Temperature
Location สำนักงานนิคมอุตสาหกรรมดับบลิวเอชเอตะวันออก (มาบตาพุด) (A1) (GPS 47P 0730907, 1405264)
Sampling Date May 15 - May 16, 2026
Sampling by Anurak Tongkhajonsakda

Time	Temperature (°C)						
	May 15 - May 16, 2026	-	-	-	-	-	-
10:00 AM - 11:00 AM	37.8	-	-	-	-	-	-
11:00 AM - 12:00 PM	33.3	-	-	-	-	-	-
12:00 PM - 01:00 PM	32.9	-	-	-	-	-	-
01:00 PM - 02:00 PM	32.6	-	-	-	-	-	-
02:00 PM - 03:00 PM	32.8	-	-	-	-	-	-
03:00 PM - 04:00 PM	32.4	-	-	-	-	-	-
04:00 PM - 05:00 PM	31.7	-	-	-	-	-	-
05:00 PM - 06:00 PM	30.6	-	-	-	-	-	-
06:00 PM - 07:00 PM	30.1	-	-	-	-	-	-
07:00 PM - 08:00 PM	29.9	-	-	-	-	-	-
08:00 PM - 09:00 PM	29.3	-	-	-	-	-	-
09:00 PM - 10:00 PM	28.5	-	-	-	-	-	-
10:00 PM - 11:00 PM	28.5	-	-	-	-	-	-
11:00 PM - 12:00 AM	28.3	-	-	-	-	-	-
12:00 AM - 01:00 AM	27.8	-	-	-	-	-	-
01:00 AM - 02:00 AM	27.6	-	-	-	-	-	-
02:00 AM - 03:00 AM	27.5	-	-	-	-	-	-
03:00 AM - 04:00 AM	27.3	-	-	-	-	-	-
04:00 AM - 05:00 AM	27.2	-	-	-	-	-	-
05:00 AM - 06:00 AM	26.9	-	-	-	-	-	-
06:00 AM - 07:00 AM	28.6	-	-	-	-	-	-
07:00 AM - 08:00 AM	30.5	-	-	-	-	-	-
08:00 AM - 09:00 AM	31.1	-	-	-	-	-	-
09:00 AM - 10:00 AM	31.5	-	-	-	-	-	-
Average – 24 hr	30.0	-	-	-	-	-	-
Max – 1 hr	33.3	-	-	-	-	-	-
Min – 1 hr	26.9	-	-	-	-	-	-

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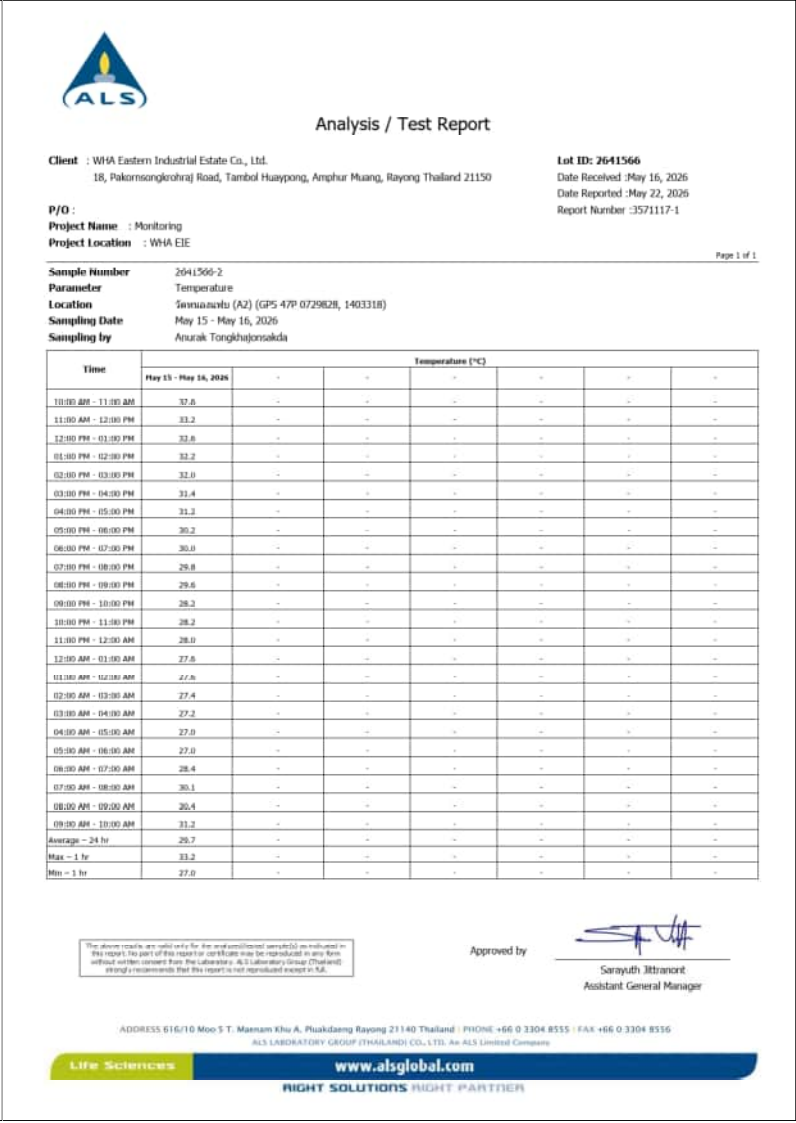


Analysis / Test Report

Client : WHA Eastern Industrial Estate Co., Ltd.
18, Pakornsongkrohraj Road, Tambol Huaypong, Amphur Muang, Rayong Thailand 21150

Lot ID: 2641566
Date Received :May 16, 2026
Date Reported :May 22, 2026
Report Number :3571117-1

P/O :
Project Name : Monitoring
Project Location : WHA EIE

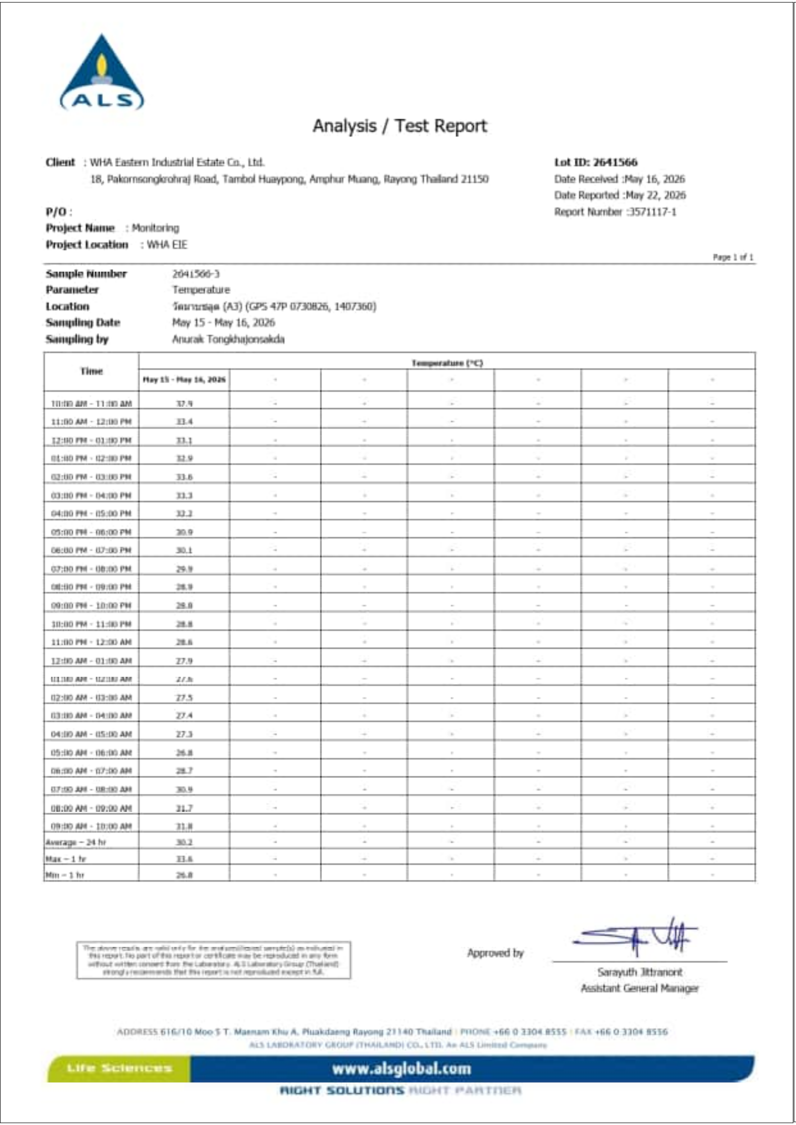
Page 1 of 1

Sample Number 2641566-2
Parameter Temperature
Location วัดหนองแฟบ (A2) (GPS 47P 0729828, 1403318)
Sampling Date May 15 - May 16, 2026
Sampling by Anurak Tongkhajonsakda

Time	Temperature (°C)						
	May 15 - May 16, 2026	-	-	-	-	-	-
10:00 AM - 11:00 AM	37.6	-	-	-	-	-	-
11:00 AM - 12:00 PM	33.2	-	-	-	-	-	-
12:00 PM - 01:00 PM	32.6	-	-	-	-	-	-
01:00 PM - 02:00 PM	32.2	-	-	-	-	-	-
02:00 PM - 03:00 PM	32.0	-	-	-	-	-	-
03:00 PM - 04:00 PM	31.4	-	-	-	-	-	-
04:00 PM - 05:00 PM	31.2	-	-	-	-	-	-
05:00 PM - 06:00 PM	30.2	-	-	-	-	-	-
06:00 PM - 07:00 PM	30.0	-	-	-	-	-	-
07:00 PM - 08:00 PM	29.8	-	-	-	-	-	-
08:00 PM - 09:00 PM	29.6	-	-	-	-	-	-
09:00 PM - 10:00 PM	28.2	-	-	-	-	-	-
10:00 PM - 11:00 PM	28.2	-	-	-	-	-	-
11:00 PM - 12:00 AM	28.0	-	-	-	-	-	-
12:00 AM - 01:00 AM	27.6	-	-	-	-	-	-
01:00 AM - 02:00 AM	27.6	-	-	-	-	-	-
02:00 AM - 03:00 AM	27.4	-	-	-	-	-	-
03:00 AM - 04:00 AM	27.2	-	-	-	-	-	-
04:00 AM - 05:00 AM	27.0	-	-	-	-	-	-
05:00 AM - 06:00 AM	27.0	-	-	-	-	-	-
06:00 AM - 07:00 AM	28.4	-	-	-	-	-	-
07:00 AM - 08:00 AM	30.1	-	-	-	-	-	-
08:00 AM - 09:00 AM	30.4	-	-	-	-	-	-
09:00 AM - 10:00 AM	31.2	-	-	-	-	-	-
Average – 24 hr	29.7	-	-	-	-	-	-
Max – 1 hr	33.2	-	-	-	-	-	-
Min – 1 hr	27.0	-	-	-	-	-	-

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

Approved by
Sarayuth Jittranont
Assistant General Manager



Analysis / Test Report

Client : WHA Eastern Industrial Estate Co., Ltd.
18, Pakornsongkrohraj Road, Tambol Huaypong, Amphur Muang, Rayong Thailand 21150

Lot ID: 2641566
Date Received :May 16, 2026
Date Reported :May 22, 2026
Report Number :3571117-1

P/O :
Project Name : Monitoring
Project Location : WHA EIE

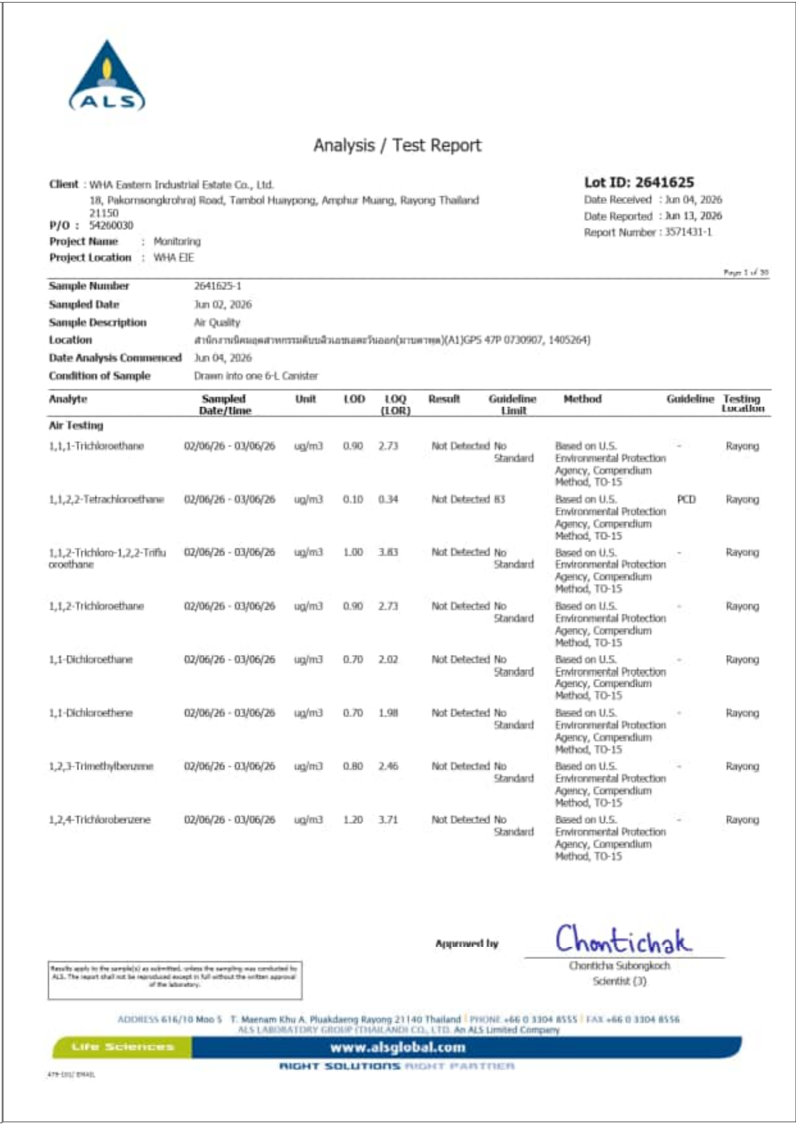
Page 1 of 1

Sample Number 2641566-3
Parameter Temperature
Location วัดมาบชลูด (A3) (GPS 47P 0730826, 1407360)
Sampling Date May 15 - May 16, 2026
Sampling by Anurak Tongkhajonsakda

Time	Temperature (°C)						
	May 15 - May 16, 2026	-	-	-	-	-	-
10:00 AM - 11:00 AM	37.9	-	-	-	-	-	-
11:00 AM - 12:00 PM	33.4	-	-	-	-	-	-
12:00 PM - 01:00 PM	33.1	-	-	-	-	-	-
01:00 PM - 02:00 PM	32.9	-	-	-	-	-	-
02:00 PM - 03:00 PM	33.6	-	-	-	-	-	-
03:00 PM - 04:00 PM	33.3	-	-	-	-	-	-
04:00 PM - 05:00 PM	32.2	-	-	-	-	-	-
05:00 PM - 06:00 PM	30.9	-	-	-	-	-	-
06:00 PM - 07:00 PM	30.1	-	-	-	-	-	-
07:00 PM - 08:00 PM	29.9	-	-	-	-	-	-
08:00 PM - 09:00 PM	28.9	-	-	-	-	-	-
09:00 PM - 10:00 PM	28.8	-	-	-	-	-	-
10:00 PM - 11:00 PM	28.8	-	-	-	-	-	-
11:00 PM - 12:00 AM	28.6	-	-	-	-	-	-
12:00 AM - 01:00 AM	27.9	-	-	-	-	-	-
01:00 AM - 02:00 AM	27.6	-	-	-	-	-	-
02:00 AM - 03:00 AM	27.5	-	-	-	-	-	-
03:00 AM - 04:00 AM	27.4	-	-	-	-	-	-
04:00 AM - 05:00 AM	27.3	-	-	-	-	-	-
05:00 AM - 06:00 AM	26.8	-	-	-	-	-	-
06:00 AM - 07:00 AM	28.7	-	-	-	-	-	-
07:00 AM - 08:00 AM	30.9	-	-	-	-	-	-
08:00 AM - 09:00 AM	31.7	-	-	-	-	-	-
09:00 AM - 10:00 AM	31.8	-	-	-	-	-	-
Average – 24 hr	30.2	-	-	-	-	-	-
Max – 1 hr	33.6	-	-	-	-	-	-
Min – 1 hr	26.8	-	-	-	-	-	-

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

Approved by
Sarayuth Jittranont
Assistant General Manager



Analysis / Test Report

Client : WHA Eastern Industrial Estate Co., Ltd.
18, Pakornsongkrohraj Road, Tambol Huaypong, Amphur Muang, Rayong Thailand
21150
P/O : 54260030
Project Name : Monitoring
Project Location : WHA EIE

Lot ID: 2641625
Date Received : Jun 04, 2026
Date Reported : Jun 13, 2026
Report Number : 3571431-1

Page 1 of 30

Sample Number 2641625-1
Sampled Date Jun 02, 2026
Sample Description Air Quality
Location สำนักงานนิคมอุตสาหกรรมดับบลิวเอชเอตะวันออก(มาบตาพุด)(A1)GPS 47P 0730907, 1405264)
Date Analysis Commenced Jun 04, 2026
Condition of Sample Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
1,1,1-Trichloroethane	02/06/26 - 03/06/26	ug/m3	0.90	2.73	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
1,1,2,2-Tetrachloroethane	02/06/26 - 03/06/26	ug/m3	0.10	0.34	Not Detected	83	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong
1,1,2-Trichloro-1,2,2-Trifluoroethane	02/06/26 - 03/06/26	ug/m3	1.00	3.83	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
1,1,2-Trichloroethane	02/06/26 - 03/06/26	ug/m3	0.90	2.73	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
1,1-Dichloroethane	02/06/26 - 03/06/26	ug/m3	0.70	2.02	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
1,1-Dichloroethene	02/06/26 - 03/06/26	ug/m3	0.70	1.98	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
1,2,3-Trimethylbenzene	02/06/26 - 03/06/26	ug/m3	0.80	2.46	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
1,2,4-Trichlorobenzene	02/06/26 - 03/06/26	ug/m3	1.20	3.71	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong

Approved by
Chontichak
Chonticha Subongkoch
Scientist (3)

Analysis / Test Report

Client : WHA Eastern Industrial Estate Co., Ltd.
18, Pakornsongkrohraj Road, Tambol Huaypong, Amphur Muang, Rayong Thailand
21150
P/O : 54260030
Project Name : Monitoring
Project Location : WHA EIE

Lot ID: 2641625
Date Received : Jun 04, 2026
Date Reported : Jun 13, 2026
Report Number : 3571431-1

Sample Number	2641625-1
Sampled Date	Jun 02, 2026
Sample Description	Air Quality
Location	สำนักงานนิคมอุตสาหกรรมดับบลิวเอชเอตะวันออก(มาบตาพุด)(A1)GPS 47P 0730907, 1405264)
Date Analysis Commenced	Jun 04, 2026
Condition of Sample	Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
1,2,4-Trimethylbenzene	02/06/26 - 03/06/26	ug/m3	0.80	2.46	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
1,2-Dibromoethane	02/06/26 - 03/06/26	ug/m3	0.10	0.38	<0.38	370	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong
1,2-Dichlorobenzene	02/06/26 - 03/06/26	ug/m3	0.20	0.60	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
1,2-Dichloroethane	02/06/26 - 03/06/26	ug/m3	0.07	0.20	Not Detected	48	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong
1,2-Dichloropropane	02/06/26 - 03/06/26	ug/m3	0.08	0.23	Not Detected	82	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong
1,2-Dichlorotetrafluoroethane	02/06/26 - 03/06/26	ug/m3	1.20	3.50	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
1,3,5-Trimethylbenzene	02/06/26 - 03/06/26	ug/m3	0.80	2.46	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
1,3-Butadiene	02/06/26 - 03/06/26	ug/m3	0.04	0.11	Not Detected	5.3	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong

Approved by Chontichak
Chonticha Subongkoch
Scientist (3)

Analysis / Test Report

Client : WHA Eastern Industrial Estate Co., Ltd.
18, Pakornsongkrohraj Road, Tambol Huaypong, Amphur Muang, Rayong Thailand
21150
P/O : 54260030
Project Name : Monitoring
Project Location : WHA EIE

Lot ID: 2641625
Date Received : Jun 04, 2026
Date Reported : Jun 13, 2026
Report Number : 3571431-1

Sample Number	2641625-1
Sampled Date	Jun 02, 2026
Sample Description	Air Quality
Location	สำนักงานนิคมอุตสาหกรรมดับบลิวเอชเอตะวันออก(มาบตาพุด)(A1)GPS 47P 0730907, 1405264)
Date Analysis Commenced	Jun 04, 2026
Condition of Sample	Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
1,3-Dichlorobenzene	02/06/26 - 03/06/26	ug/m3	0.20	0.60	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
1,4-Dichlorobenzene	02/06/26 - 03/06/26	ug/m3	0.20	0.60	Not Detected	1100	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong
1,4-Dioxane	02/06/26 - 03/06/26	ug/m3	0.10	0.36	Not Detected	860	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong
1-Butanol	02/06/26 - 03/06/26	ug/m3	0.50	1.52	5.21	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
1-Propanol	02/06/26 - 03/06/26	ug/m3	0.40	1.23	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
2-Hexanone	02/06/26 - 03/06/26	ug/m3	0.70	2.05	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
2-Pentanone	02/06/26 - 03/06/26	ug/m3	0.60	1.76	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
2-Propanol	02/06/26 - 03/06/26	ug/m3	0.40	1.23	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong

Approved by Chontichak
Chonticha Subongkoch
Scientist (3)

Analysis / Test Report

Client : WHA Eastern Industrial Estate Co., Ltd.
18, Pakornsongkrohraj Road, Tambol Huaypong, Amphur Muang, Rayong Thailand
21150
P/O : 54260030
Project Name : Monitoring
Project Location : WHA EIE

Lot ID: 2641625
Date Received : Jun 04, 2026
Date Reported : Jun 13, 2026
Report Number : 3571431-1

Sample Number	2641625-1
Sampled Date	Jun 02, 2026
Sample Description	Air Quality
Location	สำนักงานนิคมอุตสาหกรรมดับบลิวเอชเอตะวันออก(มาบตาพุด)(A1)GPS 47P 0730907, 1405264)
Date Analysis Commenced	Jun 04, 2026
Condition of Sample	Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
3-Hexanone	02/06/26 - 03/06/26	ug/m3	0.70	2.05	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
3-Pentanone	02/06/26 - 03/06/26	ug/m3	0.60	1.76	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Acetaldehyde	02/06/26 - 03/06/26	ug/m3	0.05	0.18	Not Detected	860	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong
Acetone	02/06/26 - 03/06/26	ug/m3	0.08	0.24	3.28	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Acetonitrile	02/06/26 - 03/06/26	ug/m3	0.30	0.84	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Acrolein	02/06/26 - 03/06/26	ug/m3	0.08	0.23	Not Detected	0.55	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong
Acrylonitrile	02/06/26 - 03/06/26	ug/m3	0.07	0.22	Not Detected	10	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong
Benzene	02/06/26 - 03/06/26	ug/m3	0.05	0.16	0.26	7.6	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong

Approved by Chontichak
Chonticha Subongkoch
Scientist (3)

Analysis / Test Report

Client : WHA Eastern Industrial Estate Co., Ltd.
18, Pakornsongkrohraj Road, Tambol Huaypong, Amphur Muang, Rayong Thailand
21150
P/O : 54260030
Project Name : Monitoring
Project Location : WHA EIE

Lot ID: 2641625
Date Received : Jun 04, 2026
Date Reported : Jun 13, 2026
Report Number : 3571431-1

Sample Number	2641625-1
Sampled Date	Jun 02, 2026
Sample Description	Air Quality
Location	สำนักงานนิคมอุตสาหกรรมดับบลิวเอชเอตะวันออก(มาบตาพุด)(A1)GPS 47P 0730907, 1405264)
Date Analysis Commenced	Jun 04, 2026
Condition of Sample	Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Benzyl Chloride	02/06/26 - 03/06/26	ug/m3	0.17	0.52	Not Detected	12	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong
Bromodichloromethane	02/06/26 - 03/06/26	ug/m3	1.00	3.35	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Bromoform	02/06/26 - 03/06/26	ug/m3	1.00	5.17	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Bromomethane	02/06/26 - 03/06/26	ug/m3	0.06	0.19	Not Detected	190	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong
Butanal	02/06/26 - 03/06/26	ug/m3	0.49	1.47	<1.47	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Carbon Disulfide	02/06/26 - 03/06/26	ug/m3	0.05	0.16	Not Detected	100	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	NEB 2017	Rayong
Carbon Tetrachloride	02/06/26 - 03/06/26	ug/m3	0.10	0.31	Not Detected	150	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong
Chlorobenzene	02/06/26 - 03/06/26	ug/m3	0.80	2.30	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong

Approved by Chontichak
Chonticha Subongkoch
Scientist (3)

Analysis / Test Report

Client : WHA Eastern Industrial Estate Co., Ltd.
18, Pakornsongkrohraj Road, Tambol Huaypong, Amphur Muang, Rayong Thailand
21150
P/O : 54260030
Project Name : Monitoring
Project Location : WHA EIE

Lot ID: 2641625
Date Received : Jun 04, 2026
Date Reported : Jun 13, 2026
Report Number : 3571431-1

Sample Number	2641625-1
Sampled Date	Jun 02, 2026
Sample Description	Air Quality
Location	สำนักงานนิคมอุตสาหกรรมดับบลิวเอชเอตะวันออก(มาบตาพุด)(A1)GPS 47P 0730907, 1405264)
Date Analysis Commenced	Jun 04, 2026
Condition of Sample	Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Chlorodifluoromethane (HCFC-22)	02/06/26 - 03/06/26	ug/m3	0.60	1.77	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Chloroethane	02/06/26 - 03/06/26	ug/m3	0.40	1.32	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Chloroform	02/06/26 - 03/06/26	ug/m3	0.08	0.24	Not Detected	57	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong
Chloromethane	02/06/26 - 03/06/26	ug/m3	0.30	1.03	<1.03	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
cis-1,2-Dichloroethene	02/06/26 - 03/06/26	ug/m3	0.70	1.98	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
cis-1,3-Dichloropropene	02/06/26 - 03/06/26	ug/m3	0.80	2.27	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Cyclohexane	02/06/26 - 03/06/26	ug/m3	0.60	1.72	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Cyclopentane	02/06/26 - 03/06/26	ug/m3	0.50	1.43	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong

Approved by Chontichak
Chonticha Subongkoch
Scientist (3)

Analysis / Test Report

Client : WHA Eastern Industrial Estate Co., Ltd.
18, Pakornsongkrohraj Road, Tambol Huaypong, Amphur Muang, Rayong Thailand
21150
P/O : 54260030
Project Name : Monitoring
Project Location : WHA EIE

Lot ID: 2641625
Date Received : Jun 04, 2026
Date Reported : Jun 13, 2026
Report Number : 3571431-1

Sample Number	2641625-1
Sampled Date	Jun 02, 2026
Sample Description	Air Quality
Location	สำนักงานนิคมอุตสาหกรรมดับบลิวเอชเอตะวันออก(มาบตาพุด)(A1)GPS 47P 0730907, 1405264)
Date Analysis Commenced	Jun 04, 2026
Condition of Sample	Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Dichlorodifluoromethane (CFC-112)	02/06/26 - 03/06/26	ug/m3	0.80	2.47	<2.47	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Dichloromethane	02/06/26 - 03/06/26	ug/m3	0.06	0.17	<0.17	210	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong
Ethanol	02/06/26 - 03/06/26	ug/m3	0.30	0.94	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Ethyl Benzene	02/06/26 - 03/06/26	ug/m3	0.70	2.17	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Hexanal	02/06/26 - 03/06/26	ug/m3	0.60	2.05	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Hexane	02/06/26 - 03/06/26	ug/m3	0.60	1.76	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Isobutene	02/06/26 - 03/06/26	ug/m3	0.40	1.15	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Isoprene	02/06/26 - 03/06/26	ug/m3	0.50	1.39	<1.39	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong

Approved by Chontichak
Chonticha Subongkoch
Scientist (3)

Analysis / Test Report

Client : WHA Eastern Industrial Estate Co., Ltd.
18, Pakornsongkrohraj Road, Tambol Huaypong, Amphur Muang, Rayong Thailand
21150
P/O : 54260030
Project Name : Monitoring
Project Location : WHA EIE

Lot ID: 2641625
Date Received : Jun 04, 2026
Date Reported : Jun 13, 2026
Report Number : 3571431-1

Sample Number	2641625-1
Sampled Date	Jun 02, 2026
Sample Description	Air Quality
Location	สำนักงานนิคมอุตสาหกรรมดับบลิวเอชเอตะวันออก(มาบตาพุด)(A1)GPS 47P 0730907, 1405264)
Date Analysis Commenced	Jun 04, 2026
Condition of Sample	Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
m,p-Xylene	02/06/26 - 03/06/26	ug/m3	1.50	4.34	5.65	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Methacrolein	02/06/26 - 03/06/26	ug/m3	0.50	1.43	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Methanol	02/06/26 - 03/06/26	ug/m3	0.20	0.66	10.96	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Methyl Ethyl Ketone	02/06/26 - 03/06/26	ug/m3	0.50	1.47	2.06	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Methyl Iodide	02/06/26 - 03/06/26	ug/m3	0.90	2.90	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Methyl Isobutyl Ketone	02/06/26 - 03/06/26	ug/m3	0.70	2.05	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Methyl tert butyl ether	02/06/26 - 03/06/26	ug/m3	0.60	1.80	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Methyl Vinyl Ketone	02/06/26 - 03/06/26	ug/m3	0.50	1.43	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong

Approved by Chontichak
Chonticha Subongkoch
Scientist (3)

Analysis / Test Report

Client : WHA Eastern Industrial Estate Co., Ltd.
18, Pakornsongkrohraj Road, Tambol Huaypong, Amphur Muang, Rayong Thailand
21150
P/O : 54260030
Project Name : Monitoring
Project Location : WHA EIE

Lot ID: 2641625
Date Received : Jun 04, 2026
Date Reported : Jun 13, 2026
Report Number : 3571431-1

Sample Number	2641625-1
Sampled Date	Jun 02, 2026
Sample Description	Air Quality
Location	สำนักงานนิคมอุตสาหกรรมดับบลิวเอชเอตะวันออก(มาบตาพุด)(A1)GPS 47P 0730907, 1405264)
Date Analysis Commenced	Jun 04, 2026
Condition of Sample	Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
o-Xylene	02/06/26 - 03/06/26	ug/m3	0.70	2.17	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Pentanal	02/06/26 - 03/06/26	ug/m3	0.50	1.76	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Pentane	02/06/26 - 03/06/26	ug/m3	0.50	1.48	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Propanal	02/06/26 - 03/06/26	ug/m3	0.50	1.19	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Propene (Propylene)	02/06/26 - 03/06/26	ug/m3	0.30	0.86	2.10	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Styrene	02/06/26 - 03/06/26	ug/m3	0.70	2.13	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Tetrachloroethylene	02/06/26 - 03/06/26	ug/m3	0.11	0.34	<0.34	400	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong
Toluene	02/06/26 - 03/06/26	ug/m3	0.60	1.88	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong

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Project Location : WHA EIE

Lot ID: 2641625
Date Received : Jun 04, 2026
Date Reported : Jun 13, 2026
Report Number : 3571431-1

Sample Number	2641625-1
Sampled Date	Jun 02, 2026
Sample Description	Air Quality
Location	สำนักงานนิคมอุตสาหกรรมดับบลิวเอชเอตะวันออก(มาบตาพุด)(A1)GPS 47P 0730907, 1405264)
Date Analysis Commenced	Jun 04, 2026
Condition of Sample	Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
trans-1,2-Dichloroethene	02/06/26 - 03/06/26	ug/m3	0.70	1.98	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
trans-1,3-Dichloropropene	02/06/26 - 03/06/26	ug/m3	0.80	2.27	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Trichloroethylene	02/06/26 - 03/06/26	ug/m3	0.09	0.27	Not Detected	130	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong
Trichlorofluoromethane (F-11)	02/06/26 - 03/06/26	ug/m3	0.90	2.81	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Vinyl Acetate	02/06/26 - 03/06/26	ug/m3	0.60	1.76	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Vinyl Chloride	02/06/26 - 03/06/26	ug/m3	0.04	0.13	Not Detected	20	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong

Guideline :
NEB 2017 : Notification of National Environmental Board, B.E. 2560 (2017)
PCD : Notification of the Pollution Control Department, which was published in the Royal Government Gazette Vol. 126 Special Part 13 D dated January 27, B.E. 2552 (2009).
Sampled By : Satcha Phetsawaeng

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

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P/O : 54260030
Project Name : Monitoring
Project Location : WHA EIE

Lot ID: 2641625
Date Received : Jun 04, 2026
Date Reported : Jun 13, 2026
Report Number : 3571431-1

Sample Number	2641625-2
Sampled Date	Jun 02, 2026
Sample Description	Air Quality
Location	วัดหนองแฟบ(A2) (GPS 47P 0729828, 1403318)
Date Analysis Commenced	Jun 04, 2026
Condition of Sample	Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
1,1,1-Trichloroethane	02/06/26 - 03/06/26	ug/m3	0.90	2.73	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
1,1,2,2-Tetrachloroethane	02/06/26 - 03/06/26	ug/m3	0.10	0.34	Not Detected	83	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong
1,1,2-Trichloro-1,2,2-Trifluoroethane	02/06/26 - 03/06/26	ug/m3	1.00	3.83	<3.83	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
1,1,2-Trichloroethane	02/06/26 - 03/06/26	ug/m3	0.90	2.73	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
1,1-Dichloroethane	02/06/26 - 03/06/26	ug/m3	0.70	2.02	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
1,1-Dichloroethene	02/06/26 - 03/06/26	ug/m3	0.70	1.98	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
1,2,3-Trimethylbenzene	02/06/26 - 03/06/26	ug/m3	0.80	2.46	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
1,2,4-Trichlorobenzene	02/06/26 - 03/06/26	ug/m3	1.20	3.71	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong

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Date Received : Jun 04, 2026
Date Reported : Jun 13, 2026
Report Number : 3571431-1

Sample Number	2641625-2
Sampled Date	Jun 02, 2026
Sample Description	Air Quality
Location	วัดหนองแฟบ(A2) (GPS 47P 0729828, 1403318)
Date Analysis Commenced	Jun 04, 2026
Condition of Sample	Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
1,2,4-Trimethylbenzene	02/06/26 - 03/06/26	ug/m3	0.80	2.46	<2.46	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
1,2-Dibromoethane	02/06/26 - 03/06/26	ug/m3	0.10	0.38	<0.38	370	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong
1,2-Dichlorobenzene	02/06/26 - 03/06/26	ug/m3	0.20	0.60	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
1,2-Dichloroethane	02/06/26 - 03/06/26	ug/m3	0.07	0.20	Not Detected	48	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong
1,2-Dichloropropane	02/06/26 - 03/06/26	ug/m3	0.08	0.23	Not Detected	82	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong
1,2-Dichlorotetrafluoroethane	02/06/26 - 03/06/26	ug/m3	1.20	3.50	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
1,3,5-Trimethylbenzene	02/06/26 - 03/06/26	ug/m3	0.80	2.46	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
1,3-Butadiene	02/06/26 - 03/06/26	ug/m3	0.04	0.11	Not Detected	5.3	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong

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Sample Number	2641625-2
Sampled Date	Jun 02, 2026
Sample Description	Air Quality
Location	วัดหนองแฟบ(A2) (GPS 47P 0729828, 1403318)
Date Analysis Commenced	Jun 04, 2026
Condition of Sample	Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
1,3-Dichlorobenzene	02/06/26 - 03/06/26	ug/m3	0.20	0.60	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
1,4-Dichlorobenzene	02/06/26 - 03/06/26	ug/m3	0.20	0.60	Not Detected	1100	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong
1,4-Dioxane	02/06/26 - 03/06/26	ug/m3	0.10	0.36	Not Detected	860	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong
1-Butanol	02/06/26 - 03/06/26	ug/m3	0.50	1.52	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
1-Propanol	02/06/26 - 03/06/26	ug/m3	0.40	1.23	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
2-Hexanone	02/06/26 - 03/06/26	ug/m3	0.70	2.05	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
2-Pentanone	02/06/26 - 03/06/26	ug/m3	0.60	1.76	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
2-Propanol	02/06/26 - 03/06/26	ug/m3	0.40	1.23	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong

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Date Received : Jun 04, 2026
Date Reported : Jun 13, 2026
Report Number : 3571431-1

Sample Number	2641625-2
Sampled Date	Jun 02, 2026
Sample Description	Air Quality
Location	วัดหนองแฟบ(A2) (GPS 47P 0729828, 1403318)
Date Analysis Commenced	Jun 04, 2026
Condition of Sample	Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
3-Hexanone	02/06/26 - 03/06/26	ug/m3	0.70	2.05	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
3-Pentanone	02/06/26 - 03/06/26	ug/m3	0.60	1.76	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Acetaldehyde	02/06/26 - 03/06/26	ug/m3	0.05	0.18	3.21	860	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong
Acetone	02/06/26 - 03/06/26	ug/m3	0.08	0.24	17.48	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Acetonitrile	02/06/26 - 03/06/26	ug/m3	0.30	0.84	1.71	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Acrolein	02/06/26 - 03/06/26	ug/m3	0.08	0.23	0.37	0.55	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong
Acrylonitrile	02/06/26 - 03/06/26	ug/m3	0.07	0.22	Not Detected	10	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong
Benzene	02/06/26 - 03/06/26	ug/m3	0.05	0.16	0.26	7.6	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong

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Sample Number	2641625-2
Sampled Date	Jun 02, 2026
Sample Description	Air Quality
Location	วัดหนองแฟบ(A2) (GPS 47P 0729828, 1403318)
Date Analysis Commenced	Jun 04, 2026
Condition of Sample	Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Benzyl Chloride	02/06/26 - 03/06/26	ug/m3	0.17	0.52	Not Detected	12	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong
Bromodichloromethane	02/06/26 - 03/06/26	ug/m3	1.00	3.35	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Bromoform	02/06/26 - 03/06/26	ug/m3	1.00	5.17	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Bromomethane	02/06/26 - 03/06/26	ug/m3	0.06	0.19	<0.19	190	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong
Butanal	02/06/26 - 03/06/26	ug/m3	0.49	1.47	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Carbon Disulfide	02/06/26 - 03/06/26	ug/m3	0.05	0.16	0.19	100	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	NEB 2017	Rayong
Carbon Tetrachloride	02/06/26 - 03/06/26	ug/m3	0.10	0.31	Not Detected	150	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong
Chlorobenzene	02/06/26 - 03/06/26	ug/m3	0.80	2.30	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong

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Sample Number	2641625-2
Sampled Date	Jun 02, 2026
Sample Description	Air Quality
Location	วัดหนองแฟบ(A2) (GPS 47P 0729828, 1403318)
Date Analysis Commenced	Jun 04, 2026
Condition of Sample	Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Chlorodifluoromethane (HCFC-22)	02/06/26 - 03/06/26	ug/m3	0.60	1.77	1.84	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Chloroethane	02/06/26 - 03/06/26	ug/m3	0.40	1.32	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Chloroform	02/06/26 - 03/06/26	ug/m3	0.08	0.24	<0.24	57	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong
Chloromethane	02/06/26 - 03/06/26	ug/m3	0.30	1.03	3.18	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
cis-1,2-Dichloroethene	02/06/26 - 03/06/26	ug/m3	0.70	1.98	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
cis-1,3-Dichloropropene	02/06/26 - 03/06/26	ug/m3	0.80	2.27	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Cyclohexane	02/06/26 - 03/06/26	ug/m3	0.60	1.72	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Cyclopentane	02/06/26 - 03/06/26	ug/m3	0.50	1.43	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong

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Sample Number	2641625-2
Sampled Date	Jun 02, 2026
Sample Description	Air Quality
Location	วัดหนองแฟบ(A2) (GPS 47P 0729828, 1403318)
Date Analysis Commenced	Jun 04, 2026
Condition of Sample	Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Dichlorodifluoromethane (CFC-112)	02/06/26 - 03/06/26	ug/m3	0.80	2.47	5.74	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Dichloromethane	02/06/26 - 03/06/26	ug/m3	0.06	0.17	1.53	210	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong
Ethanol	02/06/26 - 03/06/26	ug/m3	0.30	0.94	14.92	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Ethyl Benzene	02/06/26 - 03/06/26	ug/m3	0.70	2.17	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Hexanal	02/06/26 - 03/06/26	ug/m3	0.60	2.05	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Hexane	02/06/26 - 03/06/26	ug/m3	0.60	1.76	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Isobutene	02/06/26 - 03/06/26	ug/m3	0.40	1.15	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Isoprene	02/06/26 - 03/06/26	ug/m3	0.50	1.39	3.12	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong

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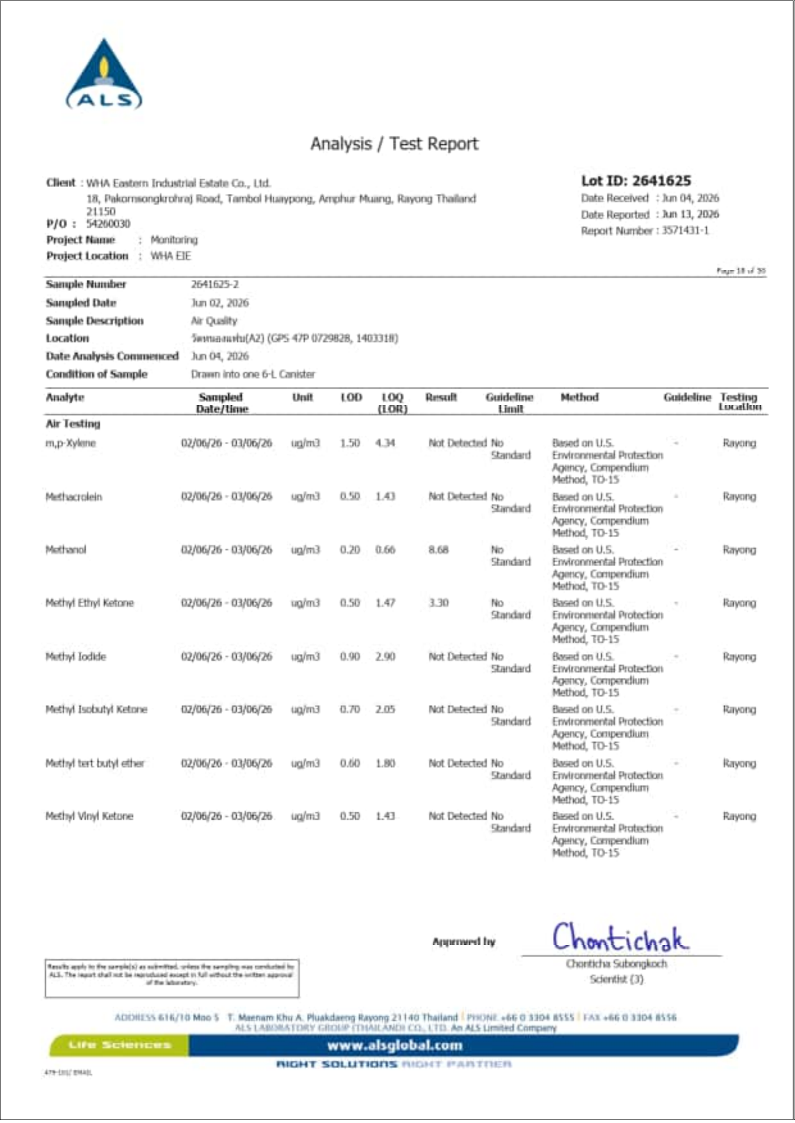

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Sample Number	2641625-2
Sampled Date	Jun 02, 2026
Sample Description	Air Quality
Location	วัดหนองแฟบ(A2) (GPS 47P 0729828, 1403318)
Date Analysis Commenced	Jun 04, 2026
Condition of Sample	Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
m,p-Xylene	02/06/26 - 03/06/26	ug/m3	1.50	4.34	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Methacrolein	02/06/26 - 03/06/26	ug/m3	0.50	1.43	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Methanol	02/06/26 - 03/06/26	ug/m3	0.20	0.66	8.68	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Methyl Ethyl Ketone	02/06/26 - 03/06/26	ug/m3	0.50	1.47	3.30	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Methyl Iodide	02/06/26 - 03/06/26	ug/m3	0.90	2.90	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Methyl Isobutyl Ketone	02/06/26 - 03/06/26	ug/m3	0.70	2.05	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Methyl tert butyl ether	02/06/26 - 03/06/26	ug/m3	0.60	1.80	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Methyl Vinyl Ketone	02/06/26 - 03/06/26	ug/m3	0.50	1.43	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong

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Chonticha Subongkoch
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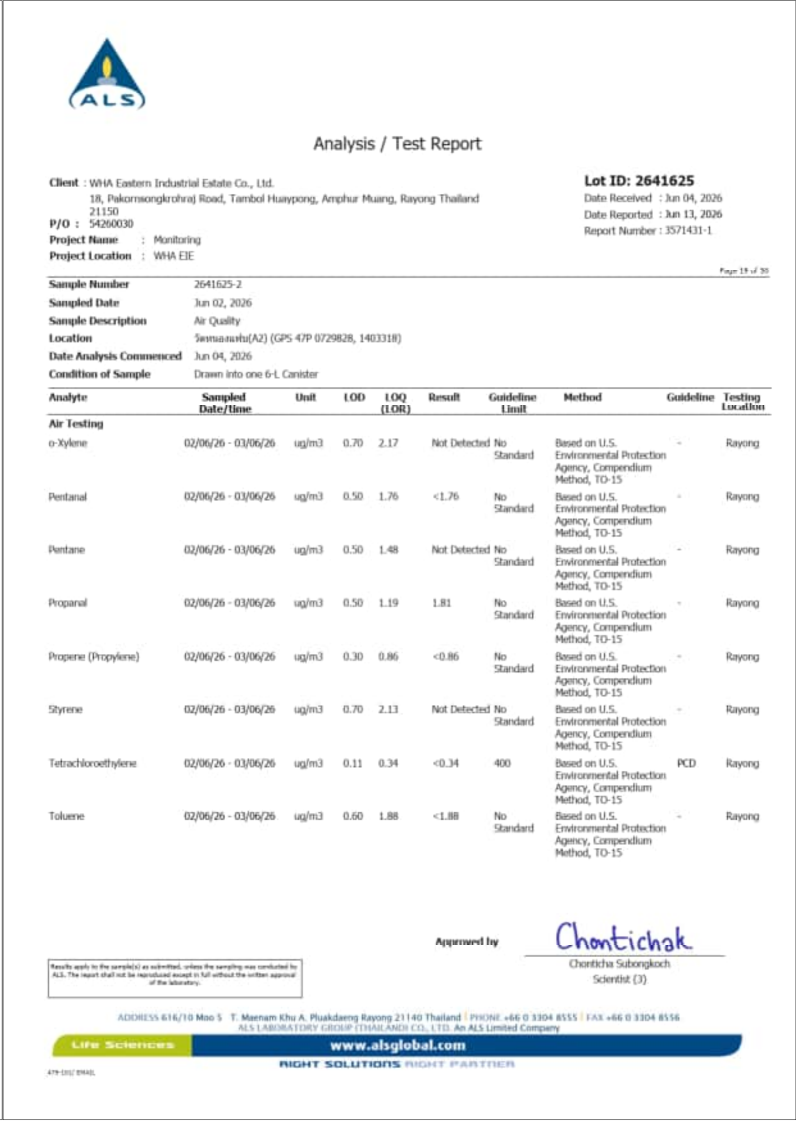

Analysis / Test Report

Client : WHA Eastern Industrial Estate Co., Ltd.
18, Pakornsongkrohraj Road, Tambol Huaypong, Amphur Muang, Rayong Thailand
21150
P/O : 54260030
Project Name : Monitoring
Project Location : WHA EIE

Lot ID: 2641625
Date Received : Jun 04, 2026
Date Reported : Jun 13, 2026
Report Number : 3571431-1

Sample Number	2641625-2
Sampled Date	Jun 02, 2026
Sample Description	Air Quality
Location	วัดหนองแฟบ(A2) (GPS 47P 0729828, 1403318)
Date Analysis Commenced	Jun 04, 2026
Condition of Sample	Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
o-Xylene	02/06/26 - 03/06/26	ug/m3	0.70	2.17	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Pentanal	02/06/26 - 03/06/26	ug/m3	0.50	1.76	<1.76	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Pentane	02/06/26 - 03/06/26	ug/m3	0.50	1.48	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Propanal	02/06/26 - 03/06/26	ug/m3	0.50	1.19	1.81	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Propene (Propylene)	02/06/26 - 03/06/26	ug/m3	0.30	0.86	<0.86	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Styrene	02/06/26 - 03/06/26	ug/m3	0.70	2.13	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Tetrachloroethylene	02/06/26 - 03/06/26	ug/m3	0.11	0.34	<0.34	400	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong
Toluene	02/06/26 - 03/06/26	ug/m3	0.60	1.88	<1.88	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong

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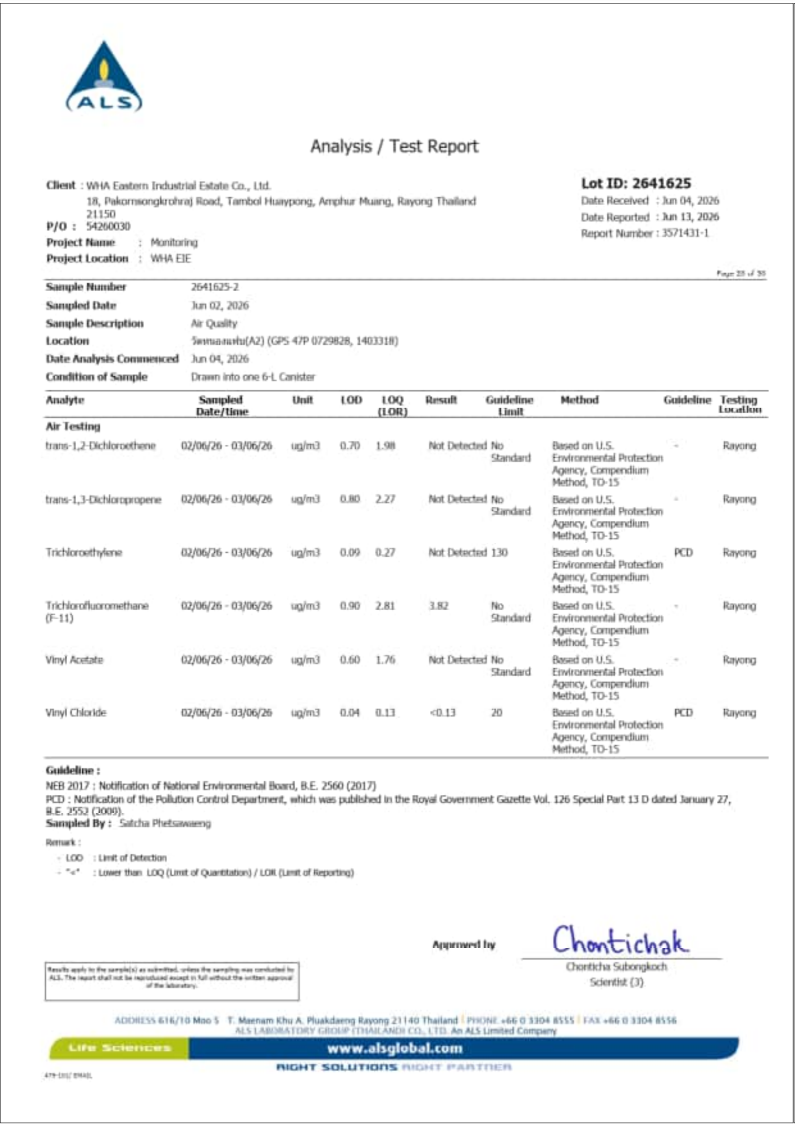

Analysis / Test Report

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Project Location : WHA EIE

Lot ID: 2641625
Date Received : Jun 04, 2026
Date Reported : Jun 13, 2026
Report Number : 3571431-1

Sample Number	2641625-2
Sampled Date	Jun 02, 2026
Sample Description	Air Quality
Location	วัดหนองแฟบ(A2) (GPS 47P 0729828, 1403318)
Date Analysis Commenced	Jun 04, 2026
Condition of Sample	Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
trans-1,2-Dichloroethene	02/06/26 - 03/06/26	ug/m3	0.70	1.98	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
trans-1,3-Dichloropropene	02/06/26 - 03/06/26	ug/m3	0.80	2.27	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Trichloroethylene	02/06/26 - 03/06/26	ug/m3	0.09	0.27	Not Detected	130	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong
Trichlorofluoromethane (F-11)	02/06/26 - 03/06/26	ug/m3	0.90	2.81	3.82	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Vinyl Acetate	02/06/26 - 03/06/26	ug/m3	0.60	1.76	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Vinyl Chloride	02/06/26 - 03/06/26	ug/m3	0.04	0.13	<0.13	20	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong

Guideline :
NEB 2017 : Notification of National Environmental Board, B.E. 2560 (2017)
PCD : Notification of the Pollution Control Department, which was published in the Royal Government Gazette Vol. 126 Special Part 13 D dated January 27, B.E. 2552 (2009).
Sampled By : Satcha Phetsawaeng

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

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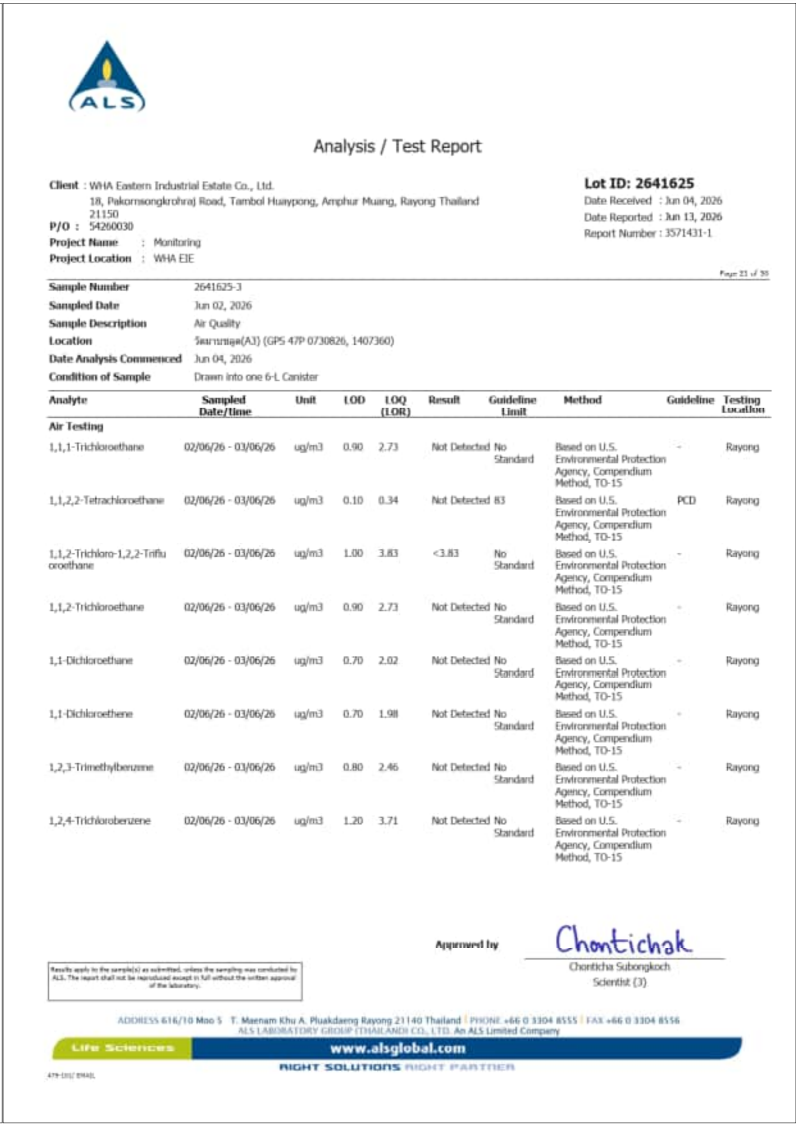

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Lot ID: 2641625
Date Received : Jun 04, 2026
Date Reported : Jun 13, 2026
Report Number : 3571431-1

Sample Number	2641625-3
Sampled Date	Jun 02, 2026
Sample Description	Air Quality
Location	วัดมาบชลูด(A3) (GPS 47P 0730826, 1407360)
Date Analysis Commenced	Jun 04, 2026
Condition of Sample	Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
1,1,1-Trichloroethane	02/06/26 - 03/06/26	ug/m3	0.90	2.73	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
1,1,2,2-Tetrachloroethane	02/06/26 - 03/06/26	ug/m3	0.10	0.34	Not Detected	83	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong
1,1,2-Trichloro-1,2,2-Trifluoroethane	02/06/26 - 03/06/26	ug/m3	1.00	3.83	<3.83	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
1,1,2-Trichloroethane	02/06/26 - 03/06/26	ug/m3	0.90	2.73	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
1,1-Dichloroethane	02/06/26 - 03/06/26	ug/m3	0.70	2.02	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
1,1-Dichloroethene	02/06/26 - 03/06/26	ug/m3	0.70	1.98	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
1,2,3-Trimethylbenzene	02/06/26 - 03/06/26	ug/m3	0.80	2.46	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
1,2,4-Trichlorobenzene	02/06/26 - 03/06/26	ug/m3	1.20	3.71	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong

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Project Location : WHA EIE

Lot ID: 2641625
Date Received : Jun 04, 2026
Date Reported : Jun 13, 2026
Report Number : 3571431-1

Sample Number	2641625-3
Sampled Date	Jun 02, 2026
Sample Description	Air Quality
Location	วัดมาบชลูด(A3) (GPS 47P 0730826, 1407360)
Date Analysis Commenced	Jun 04, 2026
Condition of Sample	Drawn into one 6-L Canister

Analyte	**Sampled Date/time**	**Unit**	**LOD**	**LOQ (LOR)**	**Result**	**Guideline Limit**	**Method**	**Guideline**	**Testing Location**
Air Testing									
1,2,4-Trimethylbenzene	02/06/26 - 03/06/26	ug/m3	0.80	2.46	<2.46	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
1,2-Dibromoethane	02/06/26 - 03/06/26	ug/m3	0.10	0.38	<0.38	370	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong
1,2-Dichlorobenzene	02/06/26 - 03/06/26	ug/m3	0.20	0.60	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
1,2-Dichloroethane	02/06/26 - 03/06/26	ug/m3	0.07	0.20	Not Detected	48	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong
1,2-Dichloropropane	02/06/26 - 03/06/26	ug/m3	0.08	0.23	Not Detected	82	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong
1,2-Dichlorotetrafluoroethane	02/06/26 - 03/06/26	ug/m3	1.20	3.50	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
1,3,5-Trimethylbenzene	02/06/26 - 03/06/26	ug/m3	0.80	2.46	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
1,3-Butadiene	02/06/26 - 03/06/26	ug/m3	0.04	0.11	<0.11	5.3	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong

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Sample Number	2641625-3
Sampled Date	Jun 02, 2026
Sample Description	Air Quality
Location	วัดมาบชลูด(A3) (GPS 47P 0730826, 1407360)
Date Analysis Commenced	Jun 04, 2026
Condition of Sample	Drawn into one 6-L Canister

Analyte	**Sampled Date/time**	**Unit**	**LOD**	**LOQ (LOR)**	**Result**	**Guideline Limit**	**Method**	**Guideline**	**Testing Location**
Air Testing									
1,3-Dichlorobenzene	02/06/26 - 03/06/26	ug/m3	0.20	0.60	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
1,4-Dichlorobenzene	02/06/26 - 03/06/26	ug/m3	0.20	0.60	Not Detected	1100	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong
1,4-Dioxane	02/06/26 - 03/06/26	ug/m3	0.10	0.36	Not Detected	860	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong
1-Butanol	02/06/26 - 03/06/26	ug/m3	0.50	1.52	4.37	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
1-Propanol	02/06/26 - 03/06/26	ug/m3	0.40	1.23	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
2-Hexanone	02/06/26 - 03/06/26	ug/m3	0.70	2.05	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
2-Pentanone	02/06/26 - 03/06/26	ug/m3	0.60	1.76	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
2-Propanol	02/06/26 - 03/06/26	ug/m3	0.40	1.23	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong

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Sample Number	2641625-3
Sampled Date	Jun 02, 2026
Sample Description	Air Quality
Location	วัดมาบชลูด(A3) (GPS 47P 0730826, 1407360)
Date Analysis Commenced	Jun 04, 2026
Condition of Sample	Drawn into one 6-L Canister

Analyte	**Sampled Date/time**	**Unit**	**LOD**	**LOQ (LOR)**	**Result**	**Guideline Limit**	**Method**	**Guideline**	**Testing Location**
Air Testing									
3-Hexanone	02/06/26 - 03/06/26	ug/m3	0.70	2.05	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
3-Pentanone	02/06/26 - 03/06/26	ug/m3	0.60	1.76	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Acetaldehyde	02/06/26 - 03/06/26	ug/m3	0.05	0.18	2.67	860	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong
Acetone	02/06/26 - 03/06/26	ug/m3	0.08	0.24	7.41	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Acetonitrile	02/06/26 - 03/06/26	ug/m3	0.30	0.84	<0.84	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Acrolein	02/06/26 - 03/06/26	ug/m3	0.08	0.23	<0.23	0.55	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong
Acrylonitrile	02/06/26 - 03/06/26	ug/m3	0.07	0.22	Not Detected	10	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong
Benzene	02/06/26 - 03/06/26	ug/m3	0.05	0.16	0.38	7.6	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong

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Location	วัดมาบชลูด(A3) (GPS 47P 0730826, 1407360)
Date Analysis Commenced	Jun 04, 2026
Condition of Sample	Drawn into one 6-L Canister

Analyte	**Sampled Date/time**	**Unit**	**LOD**	**LOQ (LOR)**	**Result**	**Guideline Limit**	**Method**	**Guideline**	**Testing Location**
Air Testing									
Benzyl Chloride	02/06/26 - 03/06/26	ug/m3	0.17	0.52	Not Detected	12	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong
Bromodichloromethane	02/06/26 - 03/06/26	ug/m3	1.00	3.35	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Bromoform	02/06/26 - 03/06/26	ug/m3	1.00	5.17	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Bromomethane	02/06/26 - 03/06/26	ug/m3	0.06	0.19	0.54	190	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong
Butanal	02/06/26 - 03/06/26	ug/m3	0.49	1.47	1.59	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Carbon Disulfide	02/06/26 - 03/06/26	ug/m3	0.05	0.16	<0.16	100	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	NEB 2017	Rayong
Carbon Tetrachloride	02/06/26 - 03/06/26	ug/m3	0.10	0.31	Not Detected	150	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong
Chlorobenzene	02/06/26 - 03/06/26	ug/m3	0.80	2.30	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong

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Date Analysis Commenced Jun 04, 2026
Condition of Sample Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Chlorodifluoromethane (HCFC-22)	02/06/26 - 03/06/26	ug/m3	0.60	1.77	<1.77	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Chloroethane	02/06/26 - 03/06/26	ug/m3	0.40	1.32	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Chloroform	02/06/26 - 03/06/26	ug/m3	0.08	0.24	<0.24	57	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong
Chloromethane	02/06/26 - 03/06/26	ug/m3	0.30	1.03	2.93	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
cis-1,2-Dichloroethene	02/06/26 - 03/06/26	ug/m3	0.70	1.98	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
cis-1,3-Dichloropropene	02/06/26 - 03/06/26	ug/m3	0.80	2.27	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Cyclohexane	02/06/26 - 03/06/26	ug/m3	0.60	1.72	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Cyclopentane	02/06/26 - 03/06/26	ug/m3	0.50	1.43	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong

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Date Analysis Commenced Jun 04, 2026
Condition of Sample Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Dichlorodifluoromethane (CFC-112)	02/06/26 - 03/06/26	ug/m3	0.80	2.47	4.95	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Dichloromethane	02/06/26 - 03/06/26	ug/m3	0.06	0.17	0.76	210	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong
Ethanol	02/06/26 - 03/06/26	ug/m3	0.30	0.94	2.98	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Ethyl Benzene	02/06/26 - 03/06/26	ug/m3	0.70	2.17	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Hexanal	02/06/26 - 03/06/26	ug/m3	0.60	2.05	3.11	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Hexane	02/06/26 - 03/06/26	ug/m3	0.60	1.76	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Isobutene	02/06/26 - 03/06/26	ug/m3	0.40	1.15	<1.15	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Isoprene	02/06/26 - 03/06/26	ug/m3	0.50	1.39	1.56	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong

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Date Analysis Commenced Jun 04, 2026
Condition of Sample Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
m,p-Xylene	02/06/26 - 03/06/26	ug/m3	1.50	4.34	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Methacrolein	02/06/26 - 03/06/26	ug/m3	0.50	1.43	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Methanol	02/06/26 - 03/06/26	ug/m3	0.20	0.66	10.90	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Methyl Ethyl Ketone	02/06/26 - 03/06/26	ug/m3	0.50	1.47	5.84	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Methyl Iodide	02/06/26 - 03/06/26	ug/m3	0.90	2.90	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Methyl Isobutyl Ketone	02/06/26 - 03/06/26	ug/m3	0.70	2.05	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Methyl tert butyl ether	02/06/26 - 03/06/26	ug/m3	0.60	1.80	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Methyl Vinyl Ketone	02/06/26 - 03/06/26	ug/m3	0.50	1.43	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong

Approved by Chontichak
Chonticha Subongkoch
Scientist (3)

Analysis / Test Report

Client : WHA Eastern Industrial Estate Co., Ltd.
18, Pakornsongkrohraj Road, Tambol Huaypong, Amphur Muang, Rayong Thailand
21150
P/O : 54260030
Project Name : Monitoring
Project Location : WHA EIE

Lot ID: 2641625
Date Received : Jun 04, 2026
Date Reported : Jun 13, 2026
Report Number : 3571431-1

Sample Number 2641625-3
Sampled Date Jun 02, 2026
Sample Description Air Quality
Location วัดมาบชลูด(A3) (GPS 47P 0730826, 1407360)
Date Analysis Commenced Jun 04, 2026
Condition of Sample Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
o-Xylene	02/06/26 - 03/06/26	ug/m3	0.70	2.17	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Pentanal	02/06/26 - 03/06/26	ug/m3	0.50	1.76	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Pentane	02/06/26 - 03/06/26	ug/m3	0.50	1.48	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Propanal	02/06/26 - 03/06/26	ug/m3	0.50	1.19	<1.19	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Propene (Propylene)	02/06/26 - 03/06/26	ug/m3	0.30	0.86	2.17	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Styrene	02/06/26 - 03/06/26	ug/m3	0.70	2.13	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Tetrachloroethylene	02/06/26 - 03/06/26	ug/m3	0.11	0.34	<0.34	400	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong
Toluene	02/06/26 - 03/06/26	ug/m3	0.60	1.88	<1.88	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong

Approved by Chontichak
Chonticha Subongkoch
Scientist (3)

Analysis / Test Report

Client : WHA Eastern Industrial Estate Co., Ltd.
18, Pakornsongkrohraj Road, Tambol Huaypong, Amphur Muang, Rayong Thailand
21150
P/O : 54260030
Project Name : Monitoring
Project Location : WHA EIE

Lot ID: 2641625
Date Received : Jun 04, 2026
Date Reported : Jun 13, 2026
Report Number : 3571431-1

Sample Number	2641625-3
Sampled Date	Jun 02, 2026
Sample Description	Air Quality
Location	วัดมาบชลูด(A3) (GPS 47P 0730826, 1407360)
Date Analysis Commenced	Jun 04, 2026
Condition of Sample	Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
trans-1,2-Dichloroethene	02/06/26 - 03/06/26	ug/m3	0.70	1.98	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
trans-1,3-Dichloropropene	02/06/26 - 03/06/26	ug/m3	0.80	2.27	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Trichloroethylene	02/06/26 - 03/06/26	ug/m3	0.09	0.27	Not Detected	130	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong
Trichlorofluoromethane (F-11)	02/06/26 - 03/06/26	ug/m3	0.90	2.81	2.92	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Vinyl Acetate	02/06/26 - 03/06/26	ug/m3	0.60	1.76	Not Detected	No Standard	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	-	Rayong
Vinyl Chloride	02/06/26 - 03/06/26	ug/m3	0.04	0.13	Not Detected	20	Based on U.S. Environmental Protection Agency, Compendium Method, TO-15	PCD	Rayong

Guideline :
NEB 2017 : Notification of National Environmental Board, B.E. 2560 (2017)
PCD : Notification of the Pollution Control Department, which was published in the Royal Government Gazette Vol. 126 Special Part 13 D dated January 27, B.E. 2552 (2009).
Sampled By : Satcha Phetsawaeng

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

Approved by Chontichak
Chonticha Subongkoch
Scientist (3)

Analysis / Test Report

Client : WHA Eastern Industrial Estate Co., Ltd.
18, Pakornsongkrohraj Road, Tambol Huaypong, Amphur Muang, Rayong Thailand 21150

P/O : 54260030
Project Name : Monitoring
Project Location : WHA EIE

Lot ID: 2641624
Date Received :Jun 04, 2026
Date Reported :Jun 09, 2026
Report Number :3571430-1

Sample Number	2641624-1
Parameter	Wind Speed / Wind Direction
Location	สำนักงานนิคมอุตสาหกรรมดับบลิวเอชเอตะวันออก (มาบตาพุด) (A1) (GPS 47P 0730907, 1405264)
Sampling Date	Jun 02 - Jun 03, 2026
Sampling by	Satcha Phetsawaeng

Time	Jun 02 - Jun 03, 2026			-			-			-			-			-			-		
	WS (m/s)	WD (deg)		-	-		-	-		-	-		-	-		-	-		-	-	
11:00 AM - 12:00 PM	1.5	164.0	SSE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12:00 PM - 01:00 PM	0.5	180.0	S	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
01:00 PM - 02:00 PM	4.0	226.0	SW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
02:00 PM - 03:00 PM	2.0	216.0	SW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
03:00 PM - 04:00 PM	1.9	208.0	SSW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
04:00 PM - 05:00 PM	2.2	238.0	WSW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
05:00 PM - 06:00 PM	2.3	117.0	ESE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
06:00 PM - 07:00 PM	1.3	248.0	WSW																		
07:00 PM - 08:00 PM	0.5	133.0	SE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
08:00 PM - 09:00 PM	2.5	211.0	SSW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
09:00 PM - 10:00 PM	1.7	221.0	SW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10:00 PM - 11:00 PM	2.1	255.0	WSW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11:00 PM - 12:00 AM	1.9	220.0	SW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12:00 AM - 01:00 AM	0.9	216.0	SW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
01:00 AM - 02:00 AM	1.4	181.0	S	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
02:00 AM - 03:00 AM	1.0	204.0	SSW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
03:00 AM - 04:00 AM	1.3	169.0	S	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
04:00 AM - 05:00 AM	2.8	225.0	SW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
05:00 AM - 06:00 AM	1.4	225.0	SW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
06:00 AM - 07:00 AM	2.5	252.0	WSW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
07:00 AM - 08:00 AM	2.1	242.0	WSW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
08:00 AM - 09:00 AM	2.0	230.0	SW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
09:00 AM - 10:00 AM	2.4	215.0	SW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10:00 AM - 11:00 AM	2.8	210.0	SSW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Reference Method : Cup Anemometer & Anodized Aluminium Vane Method

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Approved by
Sarayuth Jittranont
Assistant General Manager

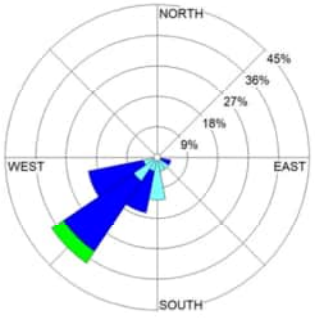
Analysis / Test Report

Client : WHA Eastern Industrial Estate Co., Ltd.
18, Pakornsongkrohraj Road, Tambol Huaypong, Amphur Muang, Rayong Thailand 21150

P/O : 54260030
Project Name : Monitoring
Project Location : WHA EIE

Lot ID: 2641624
Date Received :Jun 04, 2026
Date Reported :Jun 09, 2026
Report Number :3571430-1

Wind Rose



Date : Jun 02-03, 2026

	WS (m/s)	%
🟥	≥ 10.0	0.00
🟧	8.0-10.0	0.00
🟨	5.5-8.0	0.00
🟩	3.3-5.5	4.17
🟦	1.7-3.3	58.33
▨	0.3-1.7	37.50
	Calms	0.00

Location : สำนักงานนิคมอุตสาหกรรมดับบลิวเอชเอตะวันออก (มาบตาพุด) (A1) (GPS 47P 0730907, 1405264)

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Sarayuth Jittranont
Assistant General Manager

Analysis / Test Report

Client : WHA Eastern Industrial Estate Co., Ltd.
18, Pakornsongkrohraj Road, Tambol Huaypong, Amphur Muang, Rayong Thailand 21150

P/O : 54260030
Project Name : Monitoring
Project Location : WHA EIE

Lot ID: 2641624
Date Received :Jun 04, 2026
Date Reported :Jun 09, 2026
Report Number :3571430-1

Sample Number	2641624-2
Parameter	Wind Speed / Wind Direction
Location	วัดหนองแฟบ (A2) (GPS 47P 0729828, 1403318)
Sampling Date	Jun 02 - Jun 03, 2026
Sampling by	Satcha Phetsawaeng

Time	Jun 02 - Jun 03, 2026			-			-			-			-			-			-		
	WS (m/s)	WD (deg)		-	-		-	-		-	-		-	-		-	-		-	-	
10:00 AM - 11:00 AM	0.8	230.0	SW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11:00 AM - 12:00 PM	1.3	268.0	W	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12:00 PM - 01:00 PM	1.4	276.0	W	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
01:00 PM - 02:00 PM	1.4	338.0	NNW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
02:00 PM - 03:00 PM	0.9	249.0	WSW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
03:00 PM - 04:00 PM	1.4	230.0	SW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
04:00 PM - 05:00 PM	0.4	180.0	S	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
05:00 PM - 06:00 PM	1.4	172.0	C																		
06:00 PM - 07:00 PM	1.6	223.0	SW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
07:00 PM - 08:00 PM	1.6	253.0	WSW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
08:00 PM - 09:00 PM	0.4	236.0	SW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
09:00 PM - 10:00 PM	0.6	289.0	WNW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10:00 PM - 11:00 PM	1.3	255.0	WSW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11:00 PM - 12:00 AM	1.1	240.0	WSW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12:00 AM - 01:00 AM	0.3	223.0	SW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
01:00 AM - 02:00 AM	0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
02:00 AM - 03:00 AM	0.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
03:00 AM - 04:00 AM	0.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
04:00 AM - 05:00 AM	0.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
05:00 AM - 06:00 AM	0.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
06:00 AM - 07:00 AM	1.2	296.0	WNW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
07:00 AM - 08:00 AM	1.7	265.0	W	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
08:00 AM - 09:00 AM	1.5	245.0	WSW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
09:00 AM - 10:00 AM	2.0	218.0	SW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Reference Method : Cup Anemometer & Anodized Aluminium Vane Method

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Approved by
Sarayuth Jittranont
Assistant General Manager

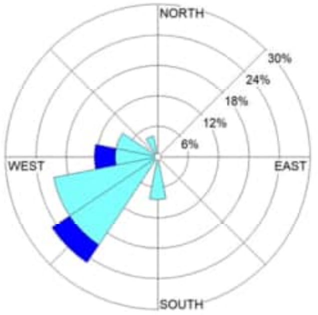
Analysis / Test Report

Client : WHA Eastern Industrial Estate Co., Ltd.
18, Pakornsongkrohraj Road, Tambol Huaypong, Amphur Muang, Rayong Thailand 21150

P/O : 54260030
Project Name : Monitoring
Project Location : WHA EIE

Lot ID: 2641624
Date Received :Jun 04, 2026
Date Reported :Jun 09, 2026
Report Number :3571430-1

Wind Rose



Date : Jun 02-03, 2026

	WS (m/s)	%
🟥	≥ 10.0	0.00
🟧	8.0-10.0	0.00
🟨	5.5-8.0	0.00
🟩	3.3-5.5	0.00
🟦	1.7-3.3	8.33
▨	0.3-1.7	70.83
	Calms	20.83

Location : วัดหนองแฟบ (A2) (GPS 47P 0729828, 1403318)

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Approved by

Sarayuth Jittranont
Assistant General Manager

Analysis / Test Report

Client : WHA Eastern Industrial Estate Co., Ltd.
18, Pakornsongkrohraj Road, Tambol Huaypong, Amphur Muang, Rayong Thailand 21150

P/O : 54260030
Project Name : Monitoring
Project Location : WHA EIE

Lot ID: 2641624
Date Received :Jun 04, 2026
Date Reported :Jun 09, 2026
Report Number :3571430-1

Sample Number 2641624-3
Parameter Wind Speed / Wind Direction
Location วัดมาบชลูด (A3) (GPS 47P 0730826, 1407360)
Sampling Date Jun 02 - Jun 03, 2026
Sampling by Satcha Phetsawaeng

Time	Jun 02 - Jun 03, 2026			-			-			-			-			-			-			-		
	WS (m/s)	WD (deg)		-	-		-	-		-	-		-	-		-	-		-	-		-	-	
11:00 AM - 12:00 PM	0.4	177.0	S	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12:00 PM - 01:00 PM	1.2	190.0	S	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
01:00 PM - 02:00 PM	0.8	194.0	SSW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
02:00 PM - 03:00 PM	0.5	194.0	SSW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
03:00 PM - 04:00 PM	1.2	274.0	W	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
04:00 PM - 05:00 PM	0.6	251.0	WSW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
05:00 PM - 06:00 PM	0.4	206.0	SSW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
06:00 PM - 07:00 PM	0.3	217.0	SW																					
07:00 PM - 08:00 PM	0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
08:00 PM - 09:00 PM	1.0	225.0	SW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
09:00 PM - 10:00 PM	0.4	228.0	SW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10:00 PM - 11:00 PM	0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11:00 PM - 12:00 AM	0.3	301.0	WNW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12:00 AM - 01:00 AM	0.4	285.0	WNW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
01:00 AM - 02:00 AM	0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
02:00 AM - 03:00 AM	0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
03:00 AM - 04:00 AM	0.4	355.0	N	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
04:00 AM - 05:00 AM	1.2	339.0	NNW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
05:00 AM - 06:00 AM	0.6	339.0	NNW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
06:00 AM - 07:00 AM	1.3	235.0	SW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
07:00 AM - 08:00 AM	1.5	245.0	WSW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
08:00 AM - 09:00 AM	2.2	215.0	SW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
09:00 AM - 10:00 AM	0.8	200.0	SSW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10:00 AM - 11:00 AM	0.6	185.0	S	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Reference Method : Cup Anemometer & Anodized Aluminium Vane Method

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Approved by

Sarayuth Jittranont
Assistant General Manager

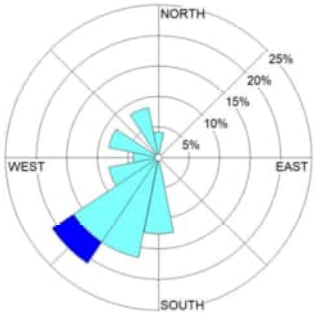
Analysis / Test Report

Client : WHA Eastern Industrial Estate Co., Ltd.
18, Pakornsongkrohraj Road, Tambol Huaypong, Amphur Muang, Rayong Thailand 21150

P/O : 54260030
Project Name : Monitoring
Project Location : WHA EIE

Lot ID: 2641624
Date Received :Jun 04, 2026
Date Reported :Jun 09, 2026
Report Number :3571430-1

Wind Rose



Date : Jun 02-03, 2026

	WS (m/s)	%
🟥	≥ 10.0	0.00
🟧	8.0-10.0	0.00
🟨	5.5-8.0	0.00
🟩	3.3-5.5	0.00
🟦	1.7-3.3	4.17
▨	0.3-1.7	79.17
	Calms	16.67

Location : วัดมาบชลูด (A3) (GPS 47P 0730826, 1407360)

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

Approved by

Sarayuth Jittranont
Assistant General Manager

Analysis / Test Report

Client : WHA Eastern Industrial Estate Co., Ltd.
18, Pakornsongkrohraj Road, Tambol Huaypong, Amphur Muang, Rayong Thailand 21150

P/O : 54260030
Project Name : Monitoring
Project Location : WHA EIE

Lot ID: 2641622
Date Received :Jun 04, 2026
Date Reported :Jun 09, 2026
Report Number :3571429-1

Sample Number 2641622-1
Parameter Temperature
Location สำนักงานนิคมอุตสาหกรรมดับบลิวเอชเอตะวันออก (มาบตาพุด) (A1) (GPS 47P 0730907, 1405264)
Sampling Date Jun 02 - Jun 03, 2026
Sampling by Satcha Phetsawaeng

Time	Temperature (°C)						
	Jun 02 - Jun 03, 2026	-	-	-	-	-	-
11:00 AM - 12:00 PM	33.1	-	-	-	-	-	-
12:00 PM - 01:00 PM	33.6	-	-	-	-	-	-
01:00 PM - 02:00 PM	34.7	-	-	-	-	-	-
02:00 PM - 03:00 PM	34.8	-	-	-	-	-	-
03:00 PM - 04:00 PM	34.3	-	-	-	-	-	-
04:00 PM - 05:00 PM	33.9	-	-	-	-	-	-
05:00 PM - 06:00 PM	33.1	-	-	-	-	-	-
06:00 PM - 07:00 PM	31.5	-	-	-	-	-	-
07:00 PM - 08:00 PM	29.8	-	-	-	-	-	-
08:00 PM - 09:00 PM	29.7	-	-	-	-	-	-
09:00 PM - 10:00 PM	29.5	-	-	-	-	-	-
10:00 PM - 11:00 PM	28.2	-	-	-	-	-	-
11:00 PM - 12:00 AM	27.9	-	-	-	-	-	-
12:00 AM - 01:00 AM	26.5	-	-	-	-	-	-
01:00 AM - 02:00 AM	26.1	-	-	-	-	-	-
02:00 AM - 03:00 AM	26.0	-	-	-	-	-	-
03:00 AM - 04:00 AM	26.3	-	-	-	-	-	-
04:00 AM - 05:00 AM	28.5	-	-	-	-	-	-
05:00 AM - 06:00 AM	28.6	-	-	-	-	-	-
06:00 AM - 07:00 AM	29.7	-	-	-	-	-	-
07:00 AM - 08:00 AM	30.6	-	-	-	-	-	-
08:00 AM - 09:00 AM	32.5	-	-	-	-	-	-
09:00 AM - 10:00 AM	33.1	-	-	-	-	-	-
10:00 AM - 11:00 AM	33.8	-	-	-	-	-	-
Average – 24 hr	30.7	-	-	-	-	-	-
Max – 1 hr	34.8	-	-	-	-	-	-
Min – 1 hr	26.0	-	-	-	-	-	-

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Approved by

Sarayuth Jittranont
Assistant General Manager

Analysis / Test Report

Client : WHA Eastern Industrial Estate Co., Ltd.
18, Pakornsongkrohraj Road, Tambol Huaypong, Amphur Muang, Rayong Thailand 21150

Lot ID: 2641622
Date Received :Jun 04, 2026
Date Reported :Jun 09, 2026
Report Number :3571429-1

P/O : 54260030
Project Name : Monitoring
Project Location : WHA EIE

Sample Number 2641622-2
Parameter Temperature
Location วัดหนองแฟบ (A2) (GPS 47P 0729828, 1403318)
Sampling Date Jun 02 - Jun 03, 2026
Sampling by Satcha Phetsawaeng

Time	Temperature (°C)						
	Jun 02 - Jun 03, 2026	-	-	-	-	-	-
10:00 AM - 11:00 AM	33.4	-	-	-	-	-	-
11:00 AM - 12:00 PM	32.7	-	-	-	-	-	-
12:00 PM - 01:00 PM	33.2	-	-	-	-	-	-
01:00 PM - 02:00 PM	34.3	-	-	-	-	-	-
02:00 PM - 03:00 PM	34.4	-	-	-	-	-	-
03:00 PM - 04:00 PM	33.9	-	-	-	-	-	-
04:00 PM - 05:00 PM	33.5	-	-	-	-	-	-
05:00 PM - 06:00 PM	32.7	-	-	-	-	-	-
06:00 PM - 07:00 PM	31.1	-	-	-	-	-	-
07:00 PM - 08:00 PM	29.4	-	-	-	-	-	-
08:00 PM - 09:00 PM	29.3	-	-	-	-	-	-
09:00 PM - 10:00 PM	29.1	-	-	-	-	-	-
10:00 PM - 11:00 PM	27.8	-	-	-	-	-	-
11:00 PM - 12:00 AM	27.5	-	-	-	-	-	-
12:00 AM - 01:00 AM	26.1	-	-	-	-	-	-
01:00 AM - 02:00 AM	25.7	-	-	-	-	-	-
02:00 AM - 03:00 AM	25.6	-	-	-	-	-	-
03:00 AM - 04:00 AM	25.9	-	-	-	-	-	-
04:00 AM - 05:00 AM	28.1	-	-	-	-	-	-
05:00 AM - 06:00 AM	28.2	-	-	-	-	-	-
06:00 AM - 07:00 AM	29.3	-	-	-	-	-	-
07:00 AM - 08:00 AM	30.2	-	-	-	-	-	-
08:00 AM - 09:00 AM	32.1	-	-	-	-	-	-
09:00 AM - 10:00 AM	32.7	-	-	-	-	-	-
Average – 24 hr	30.3	-	-	-	-	-	-
Max – 1 hr	34.4	-	-	-	-	-	-
Min – 1 hr	25.6	-	-	-	-	-	-

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Approved by

Sarayuth Jittranont
Assistant General Manager

Analysis / Test Report

Client : WHA Eastern Industrial Estate Co., Ltd.
18, Pakornsongkrohraj Road, Tambol Huaypong, Amphur Muang, Rayong Thailand 21150

Lot ID: 2641622
Date Received :Jun 04, 2026
Date Reported :Jun 09, 2026
Report Number :3571429-1

P/O : 54260030
Project Name : Monitoring
Project Location : WHA EIE

Sample Number 2641622-3
Parameter Temperature
Location วัดมาบชลูด (A3) (GPS 47P 0730826, 1407360)
Sampling Date Jun 02 - Jun 03, 2026
Sampling by Satcha Phetsawaeng

Time	Temperature (°C)						
	Jun 02 - Jun 03, 2026	-	-	-	-	-	-
11:00 AM - 12:00 PM	31.8	-	-	-	-	-	-
12:00 PM - 01:00 PM	32.3	-	-	-	-	-	-
01:00 PM - 02:00 PM	33.4	-	-	-	-	-	-
02:00 PM - 03:00 PM	33.5	-	-	-	-	-	-
03:00 PM - 04:00 PM	33.0	-	-	-	-	-	-
04:00 PM - 05:00 PM	32.6	-	-	-	-	-	-
05:00 PM - 06:00 PM	31.8	-	-	-	-	-	-
06:00 PM - 07:00 PM	30.2	-	-	-	-	-	-
07:00 PM - 08:00 PM	29.8	-	-	-	-	-	-
08:00 PM - 09:00 PM	29.7	-	-	-	-	-	-
09:00 PM - 10:00 PM	29.5	-	-	-	-	-	-
10:00 PM - 11:00 PM	28.2	-	-	-	-	-	-
11:00 PM - 12:00 AM	27.9	-	-	-	-	-	-
12:00 AM - 01:00 AM	26.5	-	-	-	-	-	-
01:00 AM - 02:00 AM	26.1	-	-	-	-	-	-
02:00 AM - 03:00 AM	26.0	-	-	-	-	-	-
03:00 AM - 04:00 AM	26.3	-	-	-	-	-	-
04:00 AM - 05:00 AM	27.2	-	-	-	-	-	-
05:00 AM - 06:00 AM	27.3	-	-	-	-	-	-
06:00 AM - 07:00 AM	28.4	-	-	-	-	-	-
07:00 AM - 08:00 AM	29.3	-	-	-	-	-	-
08:00 AM - 09:00 AM	31.2	-	-	-	-	-	-
09:00 AM - 10:00 AM	31.8	-	-	-	-	-	-
10:00 AM - 11:00 AM	32.5	-	-	-	-	-	-
Average – 24 hr	29.8	-	-	-	-	-	-
Max – 1 hr	33.5	-	-	-	-	-	-
Min – 1 hr	26.0	-	-	-	-	-	-

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Approved by

Sarayuth Jittranont
Assistant General Manager

ภาคผนวก ค-2

คุณภาพน้ำผิวดิน

TESTING
No.0042

Analysis / Test Report

Lot ID: 2613398
Date Received : Mar 05, 2026
Date Reported : Mar 12, 2026
Report Number : 3526002-1

Client : WHA Eastern Industrial Estate Co., Ltd.
18, Pakornsongkrohraj Road, Tambol Huaypong, Amphur Muang, Rayong Thailand 21150
P/O :
Project Name : Monitoring
Project Location: WHA EIE

Sample Number	2613398-1
Sampled Date	Mar 05, 2026 12:05 PM
Sample Description	Surface Water
Location	บริเวณก่อนไหลผ่าน W1 (W0/1)*
Date Analysis Commenced	Mar 05, 2026
Condition of Sample	Contained in two BOD bottles, one amber glass bottle and five 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**
Metals Testing							
Mercury *	mg/L	0.0001	0.0005	<0.0005	≤0.002	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3112 (B)	Rayong
Nickel *	mg/L	0.002	0.005	Not Detected	≤0.1	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3120 B, 3030 F	Rayong
Selenium *	mg/L	0.005	0.01	Not Detected	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3120 B, 3030 F	Rayong
Zinc *	mg/L	0.005	0.01	0.02	≤1	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3120 B, 3030 F	Rayong
Microbiological Testing							
[A] Total Coliform	MPN/100mL	-	-	11000.0	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 9221 B	Bangkok
Water Testing							
BOD *	mg/L	-	2	<2.0	≤4	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O C	Rayong
Dissolved Oxygen *	mg/L	-	0.1	7.0	≥2	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-O (C)	Rayong

Approved by Jitsupa P.

Jitsupa Pratuangsuk
Scientist (2)

TESTING
No.0042

Analysis / Test Report

Lot ID: 2613398
Date Received : Mar 05, 2026
Date Reported : Mar 12, 2026
Report Number : 3526002-1

Client : WHA Eastern Industrial Estate Co., Ltd.
18, Pakornsongkrohraj Road, Tambol Huaypong, Amphur Muang, Rayong Thailand 21150
P/O :
Project Name : Monitoring
Project Location: WHA EIE

Sample Number	2613398-1
Sampled Date	Mar 05, 2026 12:05 PM
Sample Description	Surface Water
Location	บริเวณก่อนไหลผ่าน W1 (W0/1)*
Date Analysis Commenced	Mar 05, 2026
Condition of Sample	Contained in two BOD bottles, one amber glass bottle and five 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**
Metals Testing							
Arsenic *	mg/L	0.002	0.005	Not Detected	≤0.01	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3120 B, 3030 F	Rayong
Cadmium *	mg/L	0.001	0.002	Not Detected	≤0.005	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3120 B, 3030 F	Rayong
Copper *	mg/L	0.005	0.01	Not Detected	≤0.1	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3120 B, 3030 F	Rayong
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	Rayong
Iron *	mg/L	0.005	0.01	6.62	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3120 B, 3030 F	Rayong
Lead *	mg/L	0.002	0.005	Not Detected	≤0.05	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3120 B, 3030 F	Rayong
Manganese *	mg/L	0.001	0.002	0.84	≤1	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3120 B, 3030 F	Rayong

Approved by Jitsupa P.

Jitsupa Pratuangsuk
Scientist (2)

LABORATORY ACCREDITATION
BLA-DSS

TESTING
No.0042

Analysis / Test Report

Client : WHA Eastern Industrial Estate Co., Ltd.
18, Pakornsongkrohraj Road, Tambol Huaypong, Amphur Muang, Rayong Thailand 21150
P/O :
Project Name : Monitoring
Project Location: WHA EIE

Lot ID: 2613398
Date Received : Mar 05, 2026
Date Reported : Mar 12, 2026
Report Number : 3526002-1

- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.
- [A] Analysis conducted by ALS Laboratory Group (Thailand) Co.,Ltd. Bangkok Branch, DSS Accreditation No. 0009.
- Sampling is not included in scope of accreditation ISO/IEC 17025

Approved by Jitsupa P.

Jitsupa Pratuangsuk
Scientist (2)

LABORATORY ACCREDITATION
BLA-DSS

TESTING
No.0042

Analysis / Test Report

Client : WHA Eastern Industrial Estate Co., Ltd.
18, Pakornsongkrohraj Road, Tambol Huaypong, Amphur Muang, Rayong Thailand 21150
P/O :
Project Name : Monitoring
Project Location: WHA EIE

Lot ID: 2613398
Date Received : Mar 05, 2026
Date Reported : Mar 12, 2026
Report Number : 3526002-1

Sample Number	2613398-1
Sampled Date	Mar 05, 2026 12:05 PM
Sample Description	Surface Water
Location	บริเวณก่อนไหลผ่าน W1 (W0/1)*
Date Analysis Commenced	Mar 05, 2026
Condition of Sample	Contained in two BOD bottles, one amber glass bottle and five 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							
Nitrate as N *	mg/L	0.015	0.05	0.99	≤5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-NO3 (E)	Rayong
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	Rayong
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)	Rayong
Temperature *	Degree C	-	-	33.3	n'	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	188	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong
Total Hardness as CaCO3 *	mg/L	-	1	91	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2340 C	Rayong
Total Suspended Solids Dried from 103-105 degree C *	mg/L	-	5	13	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Rayong

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 : Sansoen Khuiyoksui

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

Approved by Jitsupa P.

Jitsupa Pratuangsuk
Scientist (2)

Analysis / Test Report

TESTING
No.0042

Client : WHA Eastern Industrial Estate Co., Ltd.
18, Pakornsongkrohraj Road, Tambol Huaypong, Amphur Muang, Rayong Thailand 21150
P/O :
Project Name : Monitoring
Project Location: WHA EIE

Lot ID: 2613398
Date Received : Mar 05, 2026
Date Reported : Mar 12, 2026
Report Number : 3526003-1

Sample Number	2613398-2
Sampled Date	Mar 05, 2026 12:15 PM
Sample Description	Surface Water
Location	บริเวณก่อนไหลผ่าน W1 (W0/2)*
Date Analysis Commenced	Mar 05, 2026
Condition of Sample	Contained in two BOD bottles, one amber glass bottle and five 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							
Arsenic *	mg/L	0.002	0.005	Not Detected	≤0.01	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3120 B, 3030 F	Rayong
Cadmium *	mg/L	0.001	0.002	Not Detected	≤0.005	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3120 B, 3030 F	Rayong
Copper *	mg/L	0.005	0.01	Not Detected	≤0.1	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3120 B, 3030 F	Rayong
Hexavalent Chromium *	mg/L	0.003	0.01	<0.01	≤0.05	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3500-Cr B	Rayong
Iron *	mg/L	0.005	0.01	2.17	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3120 B, 3030 F	Rayong
Lead *	mg/L	0.002	0.005	Not Detected	≤0.05	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3120 B, 3030 F	Rayong
Manganese *	mg/L	0.001	0.002	0.28	≤1	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3120 B, 3030 F	Rayong

Approved by Jitsupa P.

Jitsupa Pratuangsuk
Scientist (2)

Analysis / Test Report

Client : WHA Eastern Industrial Estate Co., Ltd.
18, Pakornsongkrohraj Road, Tambol Huaypong, Amphur Muang, Rayong Thailand 21150
P/O :
Project Name : Monitoring
Project Location: WHA EIE

Lot ID: 2613398
Date Received : Mar 05, 2026
Date Reported : Mar 12, 2026
Report Number : 3526002-2

Sample Number	2613398-1
Sampled Date	Mar 05, 2026 12:05 PM
Sample Description	Surface Water
Location	บริเวณก่อนไหลผ่าน W1 (W0/1)*
Date Analysis Commenced	Mar 06, 2026
Condition of Sample	Contained in two BOD bottles, one amber glass bottle and five 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							
Ammonia Nitrogen	mg/L	0.02	0.05	1.27	≤0.5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-NH3 (F)	Rayong

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 : Sansoen Khuiyoksui

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

Approved by Jitsupa P.

Jitsupa Pratuangsuk
Scientist (2)

TESTING
No.0042

Analysis / Test Report

Client : WHA Eastern Industrial Estate Co., Ltd.
18, Pakornsongkrohraj Road, Tambol Huaypong, Amphur Muang, Rayong Thailand 21150
P/O :
Project Name : Monitoring
Project Location: WHA EIE

Lot ID: 2613398
Date Received : Mar 05, 2026
Date Reported : Mar 12, 2026
Report Number : 3526003-1

Sample Number	2613398-2
Sampled Date	Mar 05, 2026 12:15 PM
Sample Description	Surface Water
Location	บริเวณท่อนไหลผ่าน W1 (W0/2)*
Date Analysis Commenced	Mar 05, 2026
Condition of Sample	Contained in two BOD bottles, one amber glass bottle and five 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							
Dissolved Oxygen *	mg/L	-	0.1	10.5	≥2	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-O (C)	Rayong
Nitrate as N *	mg/L	0.015	0.05	0.83	≤5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-NO3 (E)	Rayong
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	Rayong
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)	Rayong
Temperature *	Degree C	-	-	39.7	n'	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	240	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong
Total Hardness as CaCO3 *	mg/L	-	1	106	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2340 C	Rayong
Total Suspended Solids Dried from 103-105 degree C *	mg/L	-	5	<5	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Rayong

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

Approved by Jitsupa P.

Jitsupa Pratuangsuk
Scientist (2)

TESTING
No.0042

Analysis / Test Report

Client : WHA Eastern Industrial Estate Co., Ltd.
18, Pakornsongkrohraj Road, Tambol Huaypong, Amphur Muang, Rayong Thailand 21150
P/O :
Project Name : Monitoring
Project Location: WHA EIE

Lot ID: 2613398
Date Received : Mar 05, 2026
Date Reported : Mar 12, 2026
Report Number : 3526003-1

Sample Number	2613398-2
Sampled Date	Mar 05, 2026 12:15 PM
Sample Description	Surface Water
Location	บริเวณท่อนไหลผ่าน W1 (W0/2)*
Date Analysis Commenced	Mar 05, 2026
Condition of Sample	Contained in two BOD bottles, one amber glass bottle and five 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							
Mercury *	mg/L	0.0001	0.0005	Not Detected	≤0.002	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3112 (B)	Rayong
Nickel *	mg/L	0.002	0.005	Not Detected	≤0.1	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3120 B, 3030 F	Rayong
Selenium *	mg/L	0.005	0.01	Not Detected	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3120 B, 3030 F	Rayong
Zinc *	mg/L	0.005	0.01	0.01	≤1	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3120 B, 3030 F	Rayong
Microbiological Testing							
[A] Total Coliform	MPN/100mL	-	-	330.0	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 9221 B	Bangkok
Water Testing							
Ammonia Nitrogen *	mg/L	0.02	0.05	0.13	≤0.5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-NH3 (F)	Rayong
BOD *	mg/L	-	2	<2.0	≤4	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O C	Rayong

Approved by Jitsupa P.

Jitsupa Pratuangsuk
Scientist (2)

LABORATORY ACCREDITATION
BLA-DSS
TESTING
No.0042

Analysis / Test Report

Client : WHA Eastern Industrial Estate Co., Ltd.
18, Pakornsongkrohraj Road, Tambol Huaypong, Amphur Muang, Rayong Thailand 21150
P/O : 54260030
Project Name : Monitoring
Project Location: WHA EIE

Lot ID: 2641627
Date Received : Jun 02, 2026
Date Reported : Jun 11, 2026
Report Number : 3571435-1

Sample Number	2641627-1
Sampled Date	Jun 02, 2026 10:30 AM
Sample Description	Surface Water
Location	บริเวณก่อนไหลผ่านจุดระบายน้ำทิ้งของนิคมฯ (W1)
Date Analysis Commenced	Jun 02, 2026
Condition of Sample	Contained in two BOD bottles, one amber glass bottle and five 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							
Arsenic	mg/L	0.002	0.005	Not Detected	≤0.01	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3120 B, 3030 F	Rayong
Cadmium	mg/L	0.001	0.002	Not Detected	≤0.005	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3120 B, 3030 F	Rayong
Copper	mg/L	0.005	0.01	Not Detected	≤0.1	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3120 B, 3030 F	Rayong
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	Rayong
Iron	mg/L	0.005	0.01	1.20	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3120 B, 3030 F	Rayong
Lead	mg/L	0.002	0.005	Not Detected	≤0.05	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3120 B, 3030 F	Rayong
Manganese	mg/L	0.001	0.002	0.21	≤1	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3120 B, 3030 F	Rayong

Approved by Jitsupa P.

Jitsupa Pratuangsuk
Scientist (2)

LABORATORY ACCREDITATION
BLA-DSS
TESTING
No.0042

Analysis / Test Report

Client : WHA Eastern Industrial Estate Co., Ltd.
18, Pakornsongkrohraj Road, Tambol Huaypong, Amphur Muang, Rayong Thailand 21150
P/O :
Project Name : Monitoring
Project Location: WHA EIE

Lot ID: 2613398
Date Received : Mar 05, 2026
Date Reported : Mar 12, 2026
Report Number : 3526003-1

Sampling By : Sansoen Khuiyoksui

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.
- [A] Analysis conducted by ALS Laboratory Group (Thailand) Co.,Ltd. Bangkok Branch, DSS Accreditation No. 0009.
- Sampling is not included in scope of accreditation ISO/IEC 17025

Approved by Jitsupa P.

Jitsupa Pratuangsuk
Scientist (2)

LABORATORY ACCREDITATION
BLA-DSS
TESTING
No.0042

Analysis / Test Report

Client : WHA Eastern Industrial Estate Co., Ltd.
18, Pakornsongkrohraj Road, Tambol Huaypong, Amphur Muang, Rayong Thailand 21150
P/O : 54260030
Project Name : Monitoring
Project Location: WHA EIE

Lot ID: 2641627
Date Received : Jun 02, 2026
Date Reported : Jun 11, 2026
Report Number : 3571435-1

Sample Number	2641627-1
Sampled Date	Jun 02, 2026 10:30 AM
Sample Description	Surface Water
Location	บริเวณก่อนไหลผ่านจุดระบายน้ำทิ้งของนิคมฯ (W1)
Date Analysis Commenced	Jun 02, 2026
Condition of Sample	Contained in two BOD bottles, one amber glass bottle and five 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							
Dissolved Oxygen *	mg/L	-	0.1	7.1	≥2	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-O (C)	Rayong
Nitrate as N *	mg/L	0.015	0.05	0.39	≤5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-NO3 (E)	Rayong
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	Rayong
pH at 25 degree C		-	-	7.4	5.0-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	32.4	n'	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	202	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong
Total Hardness as CaCO3 *	mg/L	-	1	79	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2340 C	Rayong
Total Suspended Solids Dried from 103-105 degree C *	mg/L	-	5	<5	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Rayong

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

Approved by Jitsupa P.

Jitsupa Pratuangsuk
Scientist (2)

LABORATORY ACCREDITATION
BLA-DSS
TESTING
No.0042

Analysis / Test Report

Client : WHA Eastern Industrial Estate Co., Ltd.
18, Pakornsongkrohraj Road, Tambol Huaypong, Amphur Muang, Rayong Thailand 21150
P/O : 54260030
Project Name : Monitoring
Project Location: WHA EIE

Lot ID: 2641627
Date Received : Jun 02, 2026
Date Reported : Jun 11, 2026
Report Number : 3571435-1

Sample Number	2641627-1
Sampled Date	Jun 02, 2026 10:30 AM
Sample Description	Surface Water
Location	บริเวณก่อนไหลผ่านจุดระบายน้ำทิ้งของนิคมฯ (W1)
Date Analysis Commenced	Jun 02, 2026
Condition of Sample	Contained in two BOD bottles, one amber glass bottle and five 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							
Mercury	mg/L	0.0001	0.0005	Not Detected	≤0.002	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3112 (B)	Rayong
Nickel	mg/L	0.002	0.005	<0.005	≤0.1	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3120 B, 3030 F	Rayong
Selenium	mg/L	0.005	0.01	Not Detected	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3120 B, 3030 F	Rayong
Zinc	mg/L	0.005	0.01	0.02	≤1	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3120 B, 3030 F	Rayong
Microbiological Testing							
[A] 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	0.02	0.05	0.18	≤0.5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-NH3 (F)	Rayong
BOD *	mg/L	-	2	<2.0	≤4	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O C	Rayong

Approved by Jitsupa P.

Jitsupa Pratuangsuk
Scientist (2)

TESTING
No.0042

Analysis / Test Report

Client : WHA Eastern Industrial Estate Co., Ltd.
18, Pakornsongkrohraj Road, Tambol Huaypong, Amphur Muang, Rayong Thailand 21150
P/O : 54260030
Project Name : Monitoring
Project Location: WHA EIE

Lot ID: 2641627
Date Received : Jun 02, 2026
Date Reported : Jun 11, 2026
Report Number : 3571435-1

Sample Number 2641627-2
Sampled Date Jun 02, 2026 10:41 AM
Sample Description Surface Water
Location บริเวณจุดระบายน้ำทิ้งของนิคมฯ(W2)
Date Analysis Commenced Jun 02, 2026
Condition of Sample Contained in two BOD bottles, one amber glass bottle and five 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							
Arsenic	mg/L	0.002	0.005	Not Detected	≤0.01	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3120 B, 3030 F	Rayong
Cadmium	mg/L	0.001	0.002	Not Detected	≤0.005	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3120 B, 3030 F	Rayong
Copper	mg/L	0.005	0.01	Not Detected	≤0.1	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3120 B, 3030 F	Rayong
Hexavalent Chromium	mg/L	0.003	0.01	<0.01	≤0.05	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3500-Cr B	Rayong
Iron	mg/L	0.005	0.01	0.66	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3120 B, 3030 F	Rayong
Lead	mg/L	0.002	0.005	Not Detected	≤0.05	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3120 B, 3030 F	Rayong
Manganese	mg/L	0.001	0.002	0.23	≤1	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3120 B, 3030 F	Rayong

Approved by Jitsupa P.

Jitsupa Pratuangsuk
Scientist (2)

TESTING
No.0042

Analysis / Test Report

Client : WHA Eastern Industrial Estate Co., Ltd.
18, Pakornsongkrohraj Road, Tambol Huaypong, Amphur Muang, Rayong Thailand 21150
P/O : 54260030
Project Name : Monitoring
Project Location: WHA EIE

Lot ID: 2641627
Date Received : Jun 02, 2026
Date Reported : Jun 11, 2026
Report Number : 3571435-1

Sampling By : Kosin Khomwisat

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.
- [A] Analysis conducted by ALS Laboratory Group (Thailand) Co.,Ltd. Bangkok Branch, DSS Accreditation No. 0009.
- Sampling is not included in scope of accreditation ISO/IEC 17025

Approved by Jitsupa P.

Jitsupa Pratuangsuk
Scientist (2)

TESTING
No.0042

Analysis / Test Report

Lot ID: 2641627
Date Received : Jun 02, 2026
Date Reported : Jun 11, 2026
Report Number : 3571435-1

Client : WHA Eastern Industrial Estate Co., Ltd.
18, Pakornsongkrohraj Road, Tambol Huaypong, Amphur Muang, Rayong Thailand 21150
P/O : 54260030
Project Name : Monitoring
Project Location: WHA EIE

Sample Number	2641627-2
Sampled Date	Jun 02, 2026 10:41 AM
Sample Description	Surface Water
Location	บริเวณจุดระบายน้ำทิ้งของนิคมฯ(W2)
Date Analysis Commenced	Jun 02, 2026
Condition of Sample	Contained in two BOD bottles, one amber glass bottle and five 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							
Dissolved Oxygen *	mg/L	-	0.1	6.2	≥2	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-O (C)	Rayong
Nitrate as N *	mg/L	0.015	0.05	3.53	≤5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-NO3 (E)	Rayong
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	Rayong
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)	Rayong
Temperature *	Degree C	-	-	34.6	n'	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	1420	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong
Total Hardness as CaCO3 *	mg/L	-	1	178	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2340 C	Rayong
Total Suspended Solids Dried from 103-105 degree C	mg/L	-	5	31	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Rayong

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

Approved by Jitsupa P.

Jitsupa Pratuangsuk
Scientist (2)

TESTING
No.0042

Analysis / Test Report

Lot ID: 2641627
Date Received : Jun 02, 2026
Date Reported : Jun 11, 2026
Report Number : 3571435-1

Client : WHA Eastern Industrial Estate Co., Ltd.
18, Pakornsongkrohraj Road, Tambol Huaypong, Amphur Muang, Rayong Thailand 21150
P/O : 54260030
Project Name : Monitoring
Project Location: WHA EIE

Sample Number	2641627-2
Sampled Date	Jun 02, 2026 10:41 AM
Sample Description	Surface Water
Location	บริเวณจุดระบายน้ำทิ้งของนิคมฯ(W2)
Date Analysis Commenced	Jun 02, 2026
Condition of Sample	Contained in two BOD bottles, one amber glass bottle and five 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							
Mercury	mg/L	0.0001	0.0005	Not Detected	≤0.002	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3112 (B)	Rayong
Nickel	mg/L	0.002	0.005	0.01	≤0.1	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3120 B, 3030 F	Rayong
Selenium	mg/L	0.005	0.01	Not Detected	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3120 B, 3030 F	Rayong
Zinc	mg/L	0.005	0.01	0.10	≤1	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3120 B, 3030 F	Rayong
Microbiological Testing							
[A] 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	0.02	0.05	0.11	≤0.5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-NH3 (F)	Rayong
BOD *	mg/L	-	2	<2.0	≤4	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O C	Rayong

Approved by Jitsupa P.

Jitsupa Pratuangsuk
Scientist (2)

TESTING
No.0042

Analysis / Test Report

Client : WHA Eastern Industrial Estate Co., Ltd.
18, Pakornsongkrohraj Road, Tambol Huaypong, Amphur Muang, Rayong Thailand 21150
P/O : 54260030
Project Name : Monitoring
Project Location: WHA EIE

Lot ID: 2641627
Date Received : Jun 02, 2026
Date Reported : Jun 11, 2026
Report Number : 3571435-1

Sample Number	2641627-3
Sampled Date	Jun 02, 2026 10:53 AM
Sample Description	Surface Water
Location	บริเวณหลังผ่านจุดระบายน้ำทิ้งของนิคมฯ((W3)
Date Analysis Commenced	Jun 02, 2026
Condition of Sample	Contained in two BOD bottles, one amber glass bottle and five 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							
Arsenic	mg/L	0.002	0.005	Not Detected	≤0.01	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3120 B, 3030 F	Rayong
Cadmium	mg/L	0.001	0.002	Not Detected	≤0.005	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3120 B, 3030 F	Rayong
Copper	mg/L	0.005	0.01	Not Detected	≤0.1	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3120 B, 3030 F	Rayong
Hexavalent Chromium	mg/L	0.003	0.01	<0.01	≤0.05	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3500-Cr B	Rayong
Iron	mg/L	0.005	0.01	0.75	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3120 B, 3030 F	Rayong
Lead	mg/L	0.002	0.005	Not Detected	≤0.05	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3120 B, 3030 F	Rayong
Manganese	mg/L	0.001	0.002	0.18	≤1	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3120 B, 3030 F	Rayong

Approved by Jitsupa P.

Jitsupa Pratuangsuk
Scientist (2)

TESTING
No.0042

Analysis / Test Report

Client : WHA Eastern Industrial Estate Co., Ltd.
18, Pakornsongkrohraj Road, Tambol Huaypong, Amphur Muang, Rayong Thailand 21150
P/O : 54260030
Project Name : Monitoring
Project Location: WHA EIE

Lot ID: 2641627
Date Received : Jun 02, 2026
Date Reported : Jun 11, 2026
Report Number : 3571435-1

Sampling By : Kosin Khomwisat

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.
- [A] Analysis conducted by ALS Laboratory Group (Thailand) Co.,Ltd. Bangkok Branch, DSS Accreditation No. 0009.
- Sampling is not included in scope of accreditation ISO/IEC 17025

Approved by Jitsupa P.

Jitsupa Pratuangsuk
Scientist (2)

TESTING
No.0042

Analysis / Test Report

Lot ID: 2641627
Date Received : Jun 02, 2026
Date Reported : Jun 11, 2026
Report Number : 3571435-1

Client : WHA Eastern Industrial Estate Co., Ltd.
18, Pakornsongkrohraj Road, Tambol Huaypong, Amphur Muang, Rayong Thailand 21150
P/O : 54260030
Project Name : Monitoring
Project Location: WHA EIE

Sample Number	2641627-3
Sampled Date	Jun 02, 2026 10:53 AM
Sample Description	Surface Water
Location	บริเวณหลังผ่านจุดระบายน้ำทิ้งของนิคมฯ((W3)
Date Analysis Commenced	Jun 02, 2026
Condition of Sample	Contained in two BOD bottles, one amber glass bottle and five 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							
Dissolved Oxygen *	mg/L	-	0.1	7.1	≥2	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-O (C)	Rayong
Nitrate as N *	mg/L	0.015	0.05	4.87	≤5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-NO3 (E)	Rayong
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	Rayong
pH at 25 degree C		-	-	8.5	5.0-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	34.2	n'	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	1340	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong
Total Hardness as CaCO3 *	mg/L	-	1	184	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2340 C	Rayong
Total Suspended Solids Dried from 103-105 degree C *	mg/L	-	5	8	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Rayong

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

Approved by Jitsupa P.

Jitsupa Pratuangsuk
Scientist (2)

TESTING
No.0042

Analysis / Test Report

Lot ID: 2641627
Date Received : Jun 02, 2026
Date Reported : Jun 11, 2026
Report Number : 3571435-1

Client : WHA Eastern Industrial Estate Co., Ltd.
18, Pakornsongkrohraj Road, Tambol Huaypong, Amphur Muang, Rayong Thailand 21150
P/O : 54260030
Project Name : Monitoring
Project Location: WHA EIE

Sample Number	2641627-3
Sampled Date	Jun 02, 2026 10:53 AM
Sample Description	Surface Water
Location	บริเวณหลังผ่านจุดระบายน้ำทิ้งของนิคมฯ((W3)
Date Analysis Commenced	Jun 02, 2026
Condition of Sample	Contained in two BOD bottles, one amber glass bottle and five 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							
Mercury	mg/L	0.0001	0.0005	Not Detected	≤0.002	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3112 (B)	Rayong
Nickel	mg/L	0.002	0.005	0.01	≤0.1	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3120 B, 3030 F	Rayong
Selenium	mg/L	0.005	0.01	Not Detected	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3120 B, 3030 F	Rayong
Zinc	mg/L	0.005	0.01	0.08	≤1	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3120 B, 3030 F	Rayong
Microbiological Testing							
[A] Total Coliform	MPN/100mL	-	-	2200.0	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	0.02	0.05	0.15	≤0.5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-NH3 (F)	Rayong
BOD *	mg/L	-	2	<2.0	≤4	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O C	Rayong

Approved by Jitsupa P.

Jitsupa Pratuangsuk
Scientist (2)

LABORATORY ACCREDITATION
BLA-DSS
TESTING
No.0042

Analysis / Test Report

Lot ID: 2641627

Client : WHA Eastern Industrial Estate Co., Ltd.
18, Pakornsongkrohraj Road, Tambol Huaypong, Amphur Muang, Rayong Thailand 21150
P/O : 54260030
Project Name : Monitoring
Project Location: WHA EIE

Date Received : Jun 02, 2026
Date Reported : Jun 11, 2026
Report Number : 3571435-1

Sample Number	2641627-4
Sampled Date	Jun 02, 2026 11:05 AM
Sample Description	Surface Water
Location	บริเวณก่อนไหลลงสู่ทะเล(W4)
Date Analysis Commenced	Jun 02, 2026
Condition of Sample	Contained in two BOD bottles, one amber glass bottle and five 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							
Arsenic	mg/L	0.002	0.005	Not Detected	≤0.01	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3120 B, 3030 F	Rayong
Cadmium	mg/L	0.001	0.002	Not Detected	≤0.005	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3120 B, 3030 F	Rayong
Copper	mg/L	0.005	0.01	Not Detected	≤0.1	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3120 B, 3030 F	Rayong
Hexavalent Chromium	mg/L	0.003	0.01	<0.01	≤0.05	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3500-Cr B	Rayong
Iron	mg/L	0.005	0.01	0.41	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3120 B, 3030 F	Rayong
Lead	mg/L	0.002	0.005	Not Detected	≤0.05	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3120 B, 3030 F	Rayong
Manganese	mg/L	0.001	0.002	0.12	≤1	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3120 B, 3030 F	Rayong

Approved by Jitsupa P.

Jitsupa Pratuangsuk
Scientist (2)

LABORATORY ACCREDITATION
BLA-DSS
TESTING
No.0042

Analysis / Test Report

Lot ID: 2641627

Client : WHA Eastern Industrial Estate Co., Ltd.
18, Pakornsongkrohraj Road, Tambol Huaypong, Amphur Muang, Rayong Thailand 21150
P/O : 54260030
Project Name : Monitoring
Project Location: WHA EIE

Date Received : Jun 02, 2026
Date Reported : Jun 11, 2026
Report Number : 3571435-1

Sampling By : Kosin Khomwisat

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.
- [A] Analysis conducted by ALS Laboratory Group (Thailand) Co.,Ltd. Bangkok Branch, DSS Accreditation No. 0009.
- Sampling is not included in scope of accreditation ISO/IEC 17025

Approved by Jitsupa P.

Jitsupa Pratuangsuk
Scientist (2)

LABORATORY ACCREDITATION
BLA-DSS
TESTING
No.0042

Analysis / Test Report

Lot ID: 2641627

Client : WHA Eastern Industrial Estate Co., Ltd.
18, Pakornsongkrohraj Road, Tambol Huaypong, Amphur Muang, Rayong Thailand 21150
P/O : 54260030
Project Name : Monitoring
Project Location: WHA EIE

Date Received : Jun 02, 2026
Date Reported : Jun 11, 2026
Report Number : 3571435-1

Sample Number	2641627-4
Sampled Date	Jun 02, 2026 11:05 AM
Sample Description	Surface Water
Location	บริเวณก่อนไหลลงสู่ทะเล(W4)
Date Analysis Commenced	Jun 02, 2026
Condition of Sample	Contained in two BOD bottles, one amber glass bottle and five 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							
Dissolved Oxygen *	mg/L	-	0.1	7.2	≥2	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-O (C)	Rayong
Nitrate as N *	mg/L	0.015	0.05	4.53	≤5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-NO3 (E)	Rayong
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	Rayong
pH at 25 degree C		-	-	8.3	5.0-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	35.2	n'	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	8820	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong
Total Hardness as CaCO3 *	mg/L	-	1	882	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2340 C	Rayong
Total Suspended Solids Dried from 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	Rayong

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

Approved by Jitsupa P.

Jitsupa Pratuangsuk
Scientist (2)

LABORATORY ACCREDITATION
BLA-DSS
TESTING
No.0042

Analysis / Test Report

Lot ID: 2641627

Client : WHA Eastern Industrial Estate Co., Ltd.
18, Pakornsongkrohraj Road, Tambol Huaypong, Amphur Muang, Rayong Thailand 21150
P/O : 54260030
Project Name : Monitoring
Project Location: WHA EIE

Date Received : Jun 02, 2026
Date Reported : Jun 11, 2026
Report Number : 3571435-1

Sample Number	2641627-4
Sampled Date	Jun 02, 2026 11:05 AM
Sample Description	Surface Water
Location	บริเวณก่อนไหลลงสู่ทะเล(W4)
Date Analysis Commenced	Jun 02, 2026
Condition of Sample	Contained in two BOD bottles, one amber glass bottle and five 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							
Mercury	mg/L	0.0001	0.0005	Not Detected	≤0.002	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3112 (B)	Rayong
Nickel	mg/L	0.002	0.005	0.01	≤0.1	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3120 B, 3030 F	Rayong
Selenium	mg/L	0.005	0.01	Not Detected	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3120 B, 3030 F	Rayong
Zinc	mg/L	0.005	0.01	0.11	≤1	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3120 B, 3030 F	Rayong
Microbiological Testing							
Total Coliform	MPN/100mL	-	-	1100.0	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 9221 B	Bangkok
Water Testing							
Ammonia Nitrogen *	mg/L	0.02	0.05	0.47	≤0.5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-NH3 (F)	Rayong
BOD *	mg/L	-	2	3.5	≤4	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O C	Rayong

Approved by Jitsupa P.

Jitsupa Pratuangsuk
Scientist (2)

Analysis / Test Report

Client : WHA Eastern Industrial Estate Co., Ltd.
18, Pakornsongkrohraj Road, Tambol Huaypong, Amphur Muang, Rayong Thailand 21150
P/O : 54260030
Project Name : Monitoring
Project Location: WHA EIE

Lot ID: 2641627
Date Received : Jun 02, 2026
Date Reported : Jun 11, 2026
Report Number : 3571435-1

Sampling By : Kosin Khomwisat

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.
- [A] Analysis conducted by ALS Laboratory Group (Thailand) Co.,Ltd. Bangkok Branch, DSS Accreditation No. 0009.
- Sampling is not included in scope of accreditation ISO/IEC 17025

Approved by Jitsupa P.

Jitsupa Pratuangsuk
Scientist (2)

ภาคผนวก ค-3

คุณภาพน้ำทะเล

Analysis / Test Report

Client : WHA Eastern Industrial Estate Co., Ltd.
18, Pakornsongkrohraj Road, Tambol Huaypong, Amphur Muang, Rayong Thailand 21150
P/O : 54260030
Project Name : Monitoring
Project Location: WHA EIE

Lot ID: 2641633
Date Received : Jun 02, 2026
Date Reported : Jun 16, 2026
Report Number : 3571439-1

Sample Number	2641633-1
Sampled Date	Jun 02, 2026 11:28 AM
Sample Description	Sea Water
Location	บริเวณน้ำทะเลที่ระยะห่าง 500 เมตร จากปากคลองบางเบิด-ด้านซ้าย(S1)
Date Analysis Commenced	Jun 04, 2026
Condition of Sample	Contained in one amber glass bottle, two glass vials 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**
Metals Testing							
Mercury	mg/L	0.000003	0.00005	<0.00005	≤0.0001	In-house method : STM 05-007 based on United States Environmental Protection Agency, 2002, EPA Method 1631, Revision E	Bangkok
Nickel	mg/L	0.003	0.01	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
Selenium	mg/L	0.003	0.01	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
Zinc	mg/L	0.001	0.003	0.02	≤0.05	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Water Testing							
Petroleum Hydrocarbon	ug/L	0.02	0.05	1.44	≤5	Pre-Concentration, Fluorescence Spectrophotometric Method (IOC/UNESCO, 1984)	Bangkok
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	36750	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong

Guideline : Notification of the National Environmental Board, B.E.2564 : Coastal Water Quality Standard (Class 5)

Note : Petroleum Hydrocarbon is performed by United Analyst and Engineering Consultant Co.,Ltd.

Sampling By : Kosin Khomwisat

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

Approved by Chanatt L.

Chanattagarn Imchom
Section Head

Analysis / Test Report

Client : WHA Eastern Industrial Estate Co., Ltd.
18, Pakornsongkrohraj Road, Tambol Huaypong, Amphur Muang, Rayong Thailand 21150
P/O : 54260030
Project Name : Monitoring
Project Location: WHA EIE

Lot ID: 2641633
Date Received : Jun 02, 2026
Date Reported : Jun 16, 2026
Report Number : 3571439-1

Sample Number	2641633-1
Sampled Date	Jun 02, 2026 11:28 AM
Sample Description	Sea Water
Location	บริเวณน้ำทะเลที่ระยะห่าง 500 เมตร จากปากคลองบางเบิด-ด้านซ้าย(S1)
Date Analysis Commenced	Jun 04, 2026
Condition of Sample	Contained in one amber glass bottle, two glass vials 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**
Metals Testing							
Arsenic	mg/L	0.002	0.005	<0.005	≤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	0.0009	0.003	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	0.001	0.003	Not Detected	≤0.008	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
Iron	mg/L	0.001	0.003	0.11	≤0.3	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Lead	mg/L	0.001	0.003	Not Detected	≤0.0085	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Manganese	mg/L	0.001	0.003	0.01	≤0.1	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok

Approved by Chanatt L.

Chanattagarn Imchom
Section Head

Analysis / Test Report

Client : WHA Eastern Industrial Estate Co., Ltd.
18, Pakornsongkrohraj Road, Tambol Huaypong, Amphur Muang, Rayong Thailand 21150
P/O : 54260030
Project Name : Monitoring
Project Location: WHA EIE

Lot ID: 2641633
Date Received : Jun 02, 2026
Date Reported : Jun 16, 2026
Report Number : 3571439-1

Sample Number	2641633-2
Sampled Date	Jun 02, 2026 11:32 AM
Sample Description	Sea Water
Location	บริเวณน้ำทะเลที่ระยะห่าง 500 เมตร จากปากคลองบางเปิด-ตรงกลาง(S2)
Date Analysis Commenced	Jun 04, 2026
Condition of Sample	Contained in one amber glass bottle, two glass vials 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
Metals Testing							
Mercury	mg/L	0.000003	0.00005	<0.00005	≤0.0001	In-house method : STM 05-007 based on United States Environmental Protection Agency, 2002, EPA Method 1631, Revision E	Bangkok
Nickel	mg/L	0.003	0.01	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
Selenium	mg/L	0.003	0.01	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
Zinc	mg/L	0.001	0.003	0.005	≤0.05	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Water Testing							
Petroleum Hydrocarbon	ug/L	0.02	0.05	2.46	≤5	Pre-Concentration, Fluorescence Spectrophotometric Method (IOC/UNESCO, 1984)	Bangkok
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	36350	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong

Guideline : Notification of the National Environmental Board, B.E.2564 : Coastal Water Quality Standard (Class 5)

Note : Petroleum Hydrocarbon is performed by United Analyst and Engineering Consultant Co.,Ltd.

Sampling By : Kosin Khomwisat

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

Approved by Chanatt L.
Chanattagarn Imchom
Section Head

Analysis / Test Report

Client : WHA Eastern Industrial Estate Co., Ltd.
18, Pakornsongkrohraj Road, Tambol Huaypong, Amphur Muang, Rayong Thailand 21150
P/O : 54260030
Project Name : Monitoring
Project Location: WHA EIE

Lot ID: 2641633
Date Received : Jun 02, 2026
Date Reported : Jun 16, 2026
Report Number : 3571439-1

Sample Number	2641633-2
Sampled Date	Jun 02, 2026 11:32 AM
Sample Description	Sea Water
Location	บริเวณน้ำทะเลที่ระยะห่าง 500 เมตร จากปากคลองบางเปิด-ตรงกลาง(S2)
Date Analysis Commenced	Jun 04, 2026
Condition of Sample	Contained in one amber glass bottle, two glass vials 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
Metals Testing							
Arsenic	mg/L	0.002	0.005	Not Detected	≤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	0.0009	0.003	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	0.001	0.003	Not Detected	≤0.008	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
Iron	mg/L	0.001	0.003	0.14	≤0.3	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Lead	mg/L	0.001	0.003	Not Detected	≤0.0085	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Manganese	mg/L	0.001	0.003	0.01	≤0.1	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok

Approved by Chanatt L.
Chanattagarn Imchom
Section Head

Analysis / Test Report

Client : WHA Eastern Industrial Estate Co., Ltd.
18, Pakornsongkrohraj Road, Tambol Huaypong, Amphur Muang, Rayong Thailand 21150
P/O : 54260030
Project Name : Monitoring
Project Location: WHA EIE

Lot ID: 2641633
Date Received : Jun 02, 2026
Date Reported : Jun 16, 2026
Report Number : 3571439-1

Sample Number	2641633-3
Sampled Date	Jun 02, 2026 11:36 AM
Sample Description	Sea Water
Location	บริเวณน้ำทะเลที่ระยะห่าง 500 เมตร จากปากคลองบางเบิด-ด้านขวา(S3)
Date Analysis Commenced	Jun 04, 2026
Condition of Sample	Contained in one amber glass bottle, two glass vials 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
Metals Testing							
Mercury	mg/L	0.000003	0.00005	<0.00005	≤0.0001	In-house method : STM 05-007 based on United States Environmental Protection Agency, 2002, EPA Method 1631, Revision E	Bangkok
Nickel	mg/L	0.003	0.01	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
Selenium	mg/L	0.003	0.01	<0.01	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Zinc	mg/L	0.001	0.003	0.005	≤0.05	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Water Testing							
Petroleum Hydrocarbon	ug/L	0.02	0.05	0.94	≤5	Pre-Concentration, Fluorescence Spectrophotometric Method (IOC/UNESCO, 1984)	Bangkok
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	35750	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong

Guideline : Notification of the National Environmental Board, B.E.2564 : Coastal Water Quality Standard (Class 5)

Note : Petroleum Hydrocarbon is performed by United Analyst and Engineering Consultant Co.,Ltd.

Sampling By : Kosin Khomwisat

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

Approved by Chanatt L.

Chanattagarn Imchom
Section Head

Analysis / Test Report

Client : WHA Eastern Industrial Estate Co., Ltd.
18, Pakornsongkrohraj Road, Tambol Huaypong, Amphur Muang, Rayong Thailand 21150
P/O : 54260030
Project Name : Monitoring
Project Location: WHA EIE

Lot ID: 2641633
Date Received : Jun 02, 2026
Date Reported : Jun 16, 2026
Report Number : 3571439-1

Sample Number	2641633-3
Sampled Date	Jun 02, 2026 11:36 AM
Sample Description	Sea Water
Location	บริเวณน้ำทะเลที่ระยะห่าง 500 เมตร จากปากคลองบางเบิด-ด้านขวา(S3)
Date Analysis Commenced	Jun 04, 2026
Condition of Sample	Contained in one amber glass bottle, two glass vials 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
Metals Testing							
Arsenic	mg/L	0.002	0.005	<0.005	≤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	0.0009	0.003	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	0.001	0.003	Not Detected	≤0.008	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
Iron	mg/L	0.001	0.003	0.09	≤0.3	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Lead	mg/L	0.001	0.003	Not Detected	≤0.0085	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Manganese	mg/L	0.001	0.003	0.01	≤0.1	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok

Approved by Chanatt L.

Chanattagarn Imchom
Section Head

ภาคผนวก ค-4

คุณภาพน้ำใต้ดิน

Analysis / Test Report

TESTING
No.0042

Client : WHA Eastern Industrial Estate Co., Ltd.
18, Pakornsongkrohraj Road, Tambol Huaypong, Amphur Muang, Rayong Thailand 21150
P/O : 54260030
Project Name : Monitoring
Project Location: WHA EIE

Lot ID: 2641636
Date Received : Jun 02, 2026
Date Reported : Jun 08, 2026
Report Number : 3571441-1

Sample Number	2641636-1
Sampled Date	Jun 02, 2026 2:30 PM
Sample Description	Underground Water
Location	บ่อน้ำใต้ดินบริเวณบ่อพักน้ำฝนแห่งที่2 (U1)
Date Analysis Commenced	Jun 02, 2026
Condition of Sample	Contained in two amber glass bottles and two 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							
Mercury	mg/L	0.0001	0.0005	Not Detected	≤0.001	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3112 (B)	Rayong
Nickel	mg/L	0.002	0.005	<0.005	≤0.02	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3120 B, 3030 F	Rayong
Selenium	mg/L	0.005	0.01	Not Detected	≤0.01	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3120 B, 3030 F	Rayong
Zinc	mg/L	0.005	0.01	0.08	≤5.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3120 B, 3030 F	Rayong
Volatile Organics Compounds							
1,1,1,2-Tetrachloroethane *	ug/L	0.15	0.5	Not Detected	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 6200 B	Bangkok
1,1,1-Trichloroethane	ug/L	0.08	0.5	Not Detected	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 6200 B	Bangkok
1,1,2,2-Tetrachloroethane *	ug/L	0.15	0.5	Not Detected	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 6200 B	Bangkok
1,1,2-Trichloroethane	ug/L	0.08	0.5	Not Detected	≤5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 6200 B	Bangkok

Approved by

Dej Changchon
Senior Manager

Analysis / Test Report

TESTING
No.0042

Client : WHA Eastern Industrial Estate Co., Ltd.
18, Pakornsongkrohraj Road, Tambol Huaypong, Amphur Muang, Rayong Thailand 21150
P/O : 54260030
Project Name : Monitoring
Project Location: WHA EIE

Lot ID: 2641636
Date Received : Jun 02, 2026
Date Reported : Jun 08, 2026
Report Number : 3571441-1

Sample Number	2641636-1
Sampled Date	Jun 02, 2026 2:30 PM
Sample Description	Underground Water
Location	บ่อน้ำใต้ดินบริเวณบ่อพักน้ำฝนแห่งที่2 (U1)
Date Analysis Commenced	Jun 02, 2026
Condition of Sample	Contained in two amber glass bottles and two 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							
Arsenic	mg/L	0.002	0.005	Not Detected	≤0.01	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3120 B, 3030 F	Rayong
Cadmium	mg/L	0.001	0.002	Not Detected	≤0.003	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3120 B, 3030 F	Rayong
Copper	mg/L	0.005	0.01	Not Detected	≤1.00	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3120 B, 3030 F	Rayong
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	Rayong
Iron	mg/L	0.005	0.01	2.78	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3120 B, 3030 F	Rayong
Lead	mg/L	0.002	0.005	Not Detected	≤0.01	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3120 B, 3030 F	Rayong
Manganese	mg/L	0.001	0.002	0.59	≤0.5	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3120 B, 3030 F	Rayong

Approved by

Dej Changchon
Senior Manager

Analysis / Test Report

TESTING
No.0042

Lot ID: 2641636

Client : WHA Eastern Industrial Estate Co., Ltd.
18, Pakornsongkrohraj Road, Tambol Huaypong, Amphur Muang, Rayong Thailand 21150
P/O : 54260030
Project Name : Monitoring
Project Location: WHA EIE

Date Received : Jun 02, 2026
Date Reported : Jun 08, 2026
Report Number : 3571441-1

Sample Number	2641636-1
Sampled Date	Jun 02, 2026 2:30 PM
Sample Description	Underground Water
Location	บ่อน้ำใต้ดินบริเวณบ่อพักน้ำฝนแห่งที่2 (U1)
Date Analysis Commenced	Jun 02, 2026
Condition of Sample	Contained in two amber glass bottles and two 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**
Volatile Organics Compounds							
1,2-Dichlorobenzene *	ug/L	0.15	0.5	Not Detected	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 6200 B	Bangkok
1,2-Dichloroethane	ug/L	0.07	0.5	Not Detected	≤5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 6200 B	Bangkok
1,2-Dichloropropane *	ug/L	0.15	0.5	Not Detected	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 6200 B	Bangkok
1,3,5-Trimethylbenzene *	ug/L	0.15	0.5	Not Detected	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 6200 B	Bangkok
1,3-Dichlorobenzene *	ug/L	0.15	0.5	Not Detected	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 6200 B	Bangkok
1,3-Dichloropropane *	ug/L	0.15	0.5	Not Detected	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 6200 B	Bangkok
1,4-Dichlorobenzene *	ug/L	0.15	0.5	Not Detected	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 6200 B	Bangkok
2,2-Dichloropropane *	ug/L	0.15	0.5	Not Detected	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 6200 B	Bangkok
2-Chlorotoluene *	ug/L	0.15	0.5	Not Detected	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 6200 B	Bangkok

Approved by

Dej Changchon
Senior Manager

Analysis / Test Report

TESTING
No.0042

Lot ID: 2641636

Client : WHA Eastern Industrial Estate Co., Ltd.
18, Pakornsongkrohraj Road, Tambol Huaypong, Amphur Muang, Rayong Thailand 21150
P/O : 54260030
Project Name : Monitoring
Project Location: WHA EIE

Date Received : Jun 02, 2026
Date Reported : Jun 08, 2026
Report Number : 3571441-1

Sample Number	2641636-1
Sampled Date	Jun 02, 2026 2:30 PM
Sample Description	Underground Water
Location	บ่อน้ำใต้ดินบริเวณบ่อพักน้ำฝนแห่งที่2 (U1)
Date Analysis Commenced	Jun 02, 2026
Condition of Sample	Contained in two amber glass bottles and two 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**
Volatile Organics Compounds							
1,1-Dichloroethane *	ug/L	0.15	0.5	Not Detected	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 6200 B	Bangkok
1,1-Dichloroethene	ug/L	0.11	0.5	Not Detected	≤7	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 6200 B	Bangkok
1,1-Dichloropropene *	ug/L	0.15	0.5	Not Detected	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 6200 B	Bangkok
1,2,3-Trichlorobenzene *	ug/L	0.15	0.5	Not Detected	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 6200 B	Bangkok
1,2,3-Trichloropropane *	ug/L	0.15	0.5	Not Detected	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 6200 B	Bangkok
1,2,4-Trichlorobenzene *	ug/L	0.15	0.5	Not Detected	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 6200 B	Bangkok
1,2,4-Trimethylbenzene *	ug/L	0.15	0.5	Not Detected	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 6200 B	Bangkok
1,2-Dibromo-3-chloropropane *	ug/L	0.15	0.5	Not Detected	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 6200 B	Bangkok
1,2-Dibromoethane *	ug/L	0.15	0.5	Not Detected	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 6200 B	Bangkok

Approved by

Dej Changchon
Senior Manager

TESTING
No.0042

Analysis / Test Report

Client : WHA Eastern Industrial Estate Co., Ltd.
18, Pakornsongkrohraj Road, Tambol Huaypong, Amphur Muang, Rayong Thailand 21150
P/O : 54260030
Project Name : Monitoring
Project Location: WHA EIE

Lot ID: 2641636
Date Received : Jun 02, 2026
Date Reported : Jun 08, 2026
Report Number : 3571441-1

Sample Number	2641636-1
Sampled Date	Jun 02, 2026 2:30 PM
Sample Description	Underground Water
Location	บ่อน้ำใต้ดินบริเวณบ่อพักน้ำฝนแห่งที่2 (U1)
Date Analysis Commenced	Jun 02, 2026
Condition of Sample	Contained in two amber glass bottles and two 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
Volatile Organics Compounds							
Chloroform *	ug/L	0.15	0.5	Not Detected	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 6200 B	Bangkok
Chloromethane *	ug/L	0.15	0.5	Not Detected	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 6200 B	Bangkok
cis-1,2-Dichloroethene	ug/L	0.04	0.5	Not Detected	≤70	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 6200 B	Bangkok
cis-1,3-Dichloropropene *	ug/L	0.15	0.5	Not Detected	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 6200 B	Bangkok
Dibromochloromethane *	ug/L	0.15	0.5	Not Detected	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 6200 B	Bangkok
Dibromomethane *	ug/L	0.10	0.5	Not Detected	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 6200 B	Bangkok
Ethylbenzene	ug/L	0.03	0.5	Not Detected	≤700	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 6200 B	Bangkok
Hexachlorobutadiene *	ug/L	0.15	0.5	Not Detected	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 6200 B	Bangkok
Isopropylbenzene *	ug/L	0.15	0.5	Not Detected	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 6200 B	Bangkok

Approved by

Dej Changchon
Senior Manager

TESTING
No.0042

Analysis / Test Report

Client : WHA Eastern Industrial Estate Co., Ltd.
18, Pakornsongkrohraj Road, Tambol Huaypong, Amphur Muang, Rayong Thailand 21150
P/O : 54260030
Project Name : Monitoring
Project Location: WHA EIE

Lot ID: 2641636
Date Received : Jun 02, 2026
Date Reported : Jun 08, 2026
Report Number : 3571441-1

Sample Number	2641636-1
Sampled Date	Jun 02, 2026 2:30 PM
Sample Description	Underground Water
Location	บ่อน้ำใต้ดินบริเวณบ่อพักน้ำฝนแห่งที่2 (U1)
Date Analysis Commenced	Jun 02, 2026
Condition of Sample	Contained in two amber glass bottles and two 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
Volatile Organics Compounds							
4-Chlorotoluene *	ug/L	0.15	0.5	Not Detected	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 6200 B	Bangkok
4-Isopropyltoluene *	ug/L	0.15	0.5	Not Detected	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 6200 B	Bangkok
Benzene	ug/L	0.03	0.5	Not Detected	≤5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 6200 B	Bangkok
Bromobenzene *	ug/L	0.15	0.5	Not Detected	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 6200 B	Bangkok
Bromochloromethane *	ug/L	0.15	0.5	Not Detected	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 6200 B	Bangkok
Bromodichloromethane *	ug/L	0.15	0.5	Not Detected	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 6200 B	Bangkok
Bromoform *	ug/L	0.15	0.5	Not Detected	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 6200 B	Bangkok
Carbon tetrachloride	ug/L	0.08	0.5	Not Detected	≤5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 6200 B	Bangkok
Chlorobenzene *	ug/L	0.15	0.5	Not Detected	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 6200 B	Bangkok

Approved by

Dej Changchon
Senior Manager

LABORATORY ACCREDITATION
BLA-DSS

TESTING
No.0042

Analysis / Test Report

Client : WHA Eastern Industrial Estate Co., Ltd.
18, Pakornsongkrohraj Road, Tambol Huaypong, Amphur Muang, Rayong Thailand 21150
P/O : 54260030
Project Name : Monitoring
Project Location: WHA EIE

Lot ID: 2641636
Date Received : Jun 02, 2026
Date Reported : Jun 08, 2026
Report Number : 3571441-1

Sample Number	2641636-1
Sampled Date	Jun 02, 2026 2:30 PM
Sample Description	Underground Water
Location	บ่อน้ำใต้ดินบริเวณบ่อพักน้ำฝนแห่งที่2 (U1)
Date Analysis Commenced	Jun 02, 2026
Condition of Sample	Contained in two amber glass bottles and two 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
Volatile Organics Compounds							
Tetrachloroethene	ug/L	0.07	0.5	Not Detected	≤5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 6200 B	Bangkok
Toluene	ug/L	0.04	0.5	Not Detected	≤1000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 6200 B	Bangkok
Total Xylene	ug/L	0.04	1.5	Not Detected	≤10000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 6200 B	Bangkok
trans-1,2-Dichloroethene	ug/L	0.1	0.5	Not Detected	≤100	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 6200 B	Bangkok
trans-1,3-Dichloropropene *	ug/L	0.15	0.5	Not Detected	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 6200 B	Bangkok
Trichloroethene	ug/L	0.05	0.5	Not Detected	≤5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 6200 B	Bangkok
Vinyl chloride (Chloroethylene)	ug/L	0.16	0.3	Not Detected	≤2	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 6200 B	Bangkok

Guideline : Notification of the National Environmental Board, No. 20, B.E.2543

Sampling By : Amonwich Wongsachai

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

D. Changchon
Dej Changchon
Senior Manager

LABORATORY ACCREDITATION
BLA-DSS

TESTING
No.0042

Analysis / Test Report

Client : WHA Eastern Industrial Estate Co., Ltd.
18, Pakornsongkrohraj Road, Tambol Huaypong, Amphur Muang, Rayong Thailand 21150
P/O : 54260030
Project Name : Monitoring
Project Location: WHA EIE

Lot ID: 2641636
Date Received : Jun 02, 2026
Date Reported : Jun 08, 2026
Report Number : 3571441-1

Sample Number	2641636-1
Sampled Date	Jun 02, 2026 2:30 PM
Sample Description	Underground Water
Location	บ่อน้ำใต้ดินบริเวณบ่อพักน้ำฝนแห่งที่2 (U1)
Date Analysis Commenced	Jun 02, 2026
Condition of Sample	Contained in two amber glass bottles and two 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
Volatile Organics Compounds							
m,p-Xylene	ug/L	0.3	1.0	Not Detected	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 6200 B	Bangkok
Methylene Chloride (Dichloromethane)	ug/L	0.1	0.5	Not Detected	≤5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 6200 B	Bangkok
Naphthalene *	ug/L	0.15	0.5	Not Detected	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 6200 B	Bangkok
n-Butylbenzene *	ug/L	0.15	0.5	Not Detected	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 6200 B	Bangkok
n-Propylbenzene *	ug/L	0.15	0.5	Not Detected	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 6200 B	Bangkok
o-Xylene	ug/L	0.01	0.5	Not Detected	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 6200 B	Bangkok
sec-Butylbenzene *	ug/L	0.15	0.5	Not Detected	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 6200 B	Bangkok
Styrene	ug/L	0.02	0.5	Not Detected	≤100	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 6200 B	Bangkok
tert-Butylbenzene *	ug/L	0.15	0.5	Not Detected	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 6200 B	Bangkok

Approved by

D. Changchon
Dej Changchon
Senior Manager

Analysis / Test Report

Client : WHA Eastern Industrial Estate Co., Ltd.
18, Pakornsongkrohraj Road, Tambol Huaypong, Amphur Muang, Rayong Thailand 21150
P/O : 54260030
Project Name : Monitoring
Project Location: WHA EIE

Lot ID: 2641636
Date Received : Jun 02, 2026
Date Reported : Jun 08, 2026
Report Number : 3571441-1

Approved by

Dej Changchon
Senior Manager

ภาคผนวก ค-5

คุณลักษณะน้ำเสียก่อนเข้าและหลังออกจากระบบบำบัดน้ำเสียส่วนกลาง

TESTING
No.0042

Analysis / Test Report

Lot ID: 25116201
Date Received : Jan 08, 2026
Date Reported : Jan 16, 2026
Report Number : 3482086-1

Client : WHA Utilities and Power Public Company Limited
18, Pakornsongkrohraj Road, Tambol Huaypong, Amphur Muang, Rayong Thailand 21150
P/O :
Project Name :
Project Location: WHA EIE

Sample Number	25116201-1
Sampled Date	Jan 08, 2026 9:59 AM
Sample Description	Influent
Location	WHA EIE : Pumping Station
Date Analysis Commenced	Jan 08, 2026
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, a lot of solid and some turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Manganese *		0.001	0.002	0.18	≤5.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3120 B, 3030 F	Rayong
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 (B)	Rayong
Nickel *	mg/L	0.002	0.005	0.01	≤1.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3120 B, 3030 F	Rayong
Selenium *	mg/L	0.005	0.01	Not Detected	≤0.02	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3120 B, 3030 F	Rayong
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, Calculated	Rayong
Zinc *	mg/L	0.005	0.01	0.45	≤5.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3120 B, 3030 F	Rayong
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	36.5	≤300	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Rayong

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

Approved by
Dej Changchon
Senior Manager
ทะเบียนเลขที่ ว-323-ค-0001

TESTING
No.0042

Analysis / Test Report

Lot ID: 25116201
Date Received : Jan 08, 2026
Date Reported : Jan 16, 2026
Report Number : 3482086-1

Client : WHA Utilities and Power Public Company Limited
18, Pakornsongkrohraj Road, Tambol Huaypong, Amphur Muang, Rayong Thailand 21150
P/O :
Project Name :
Project Location: WHA EIE

Sample Number	25116201-1
Sampled Date	Jan 08, 2026 9:59 AM
Sample Description	Influent
Location	WHA EIE : Pumping Station
Date Analysis Commenced	Jan 08, 2026
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, a lot of solid and some turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Arsenic *	mg/L	0.002	0.005	Not Detected	≤0.25	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3120 B, 3030 F	Rayong
Cadmium *	mg/L	0.001	0.002	Not Detected	≤0.03	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3120 B, 3030 F	Rayong
Chromium *	mg/L	0.001	0.002	0.004	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3120 B, 3030 F	Rayong
Copper *	mg/L	0.005	0.01	0.01	≤2.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3120 B, 3030 F	Rayong
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	Rayong
Iron *	mg/L	0.005	0.01	3.46	≤10	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3120 B, 3030 F	Rayong
Lead *	mg/L	0.002	0.005	0.02	≤0.2	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3120 B, 3030 F	Rayong

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

Approved by
Dej Changchon
Senior Manager
ทะเบียนเลขที่ ว-323-ค-0001

TESTING
No.0042

Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
18, Pakornsongkrohraj Road, Tambol Huaypong, Amphur Muang, Rayong Thailand 21150
P/O :
Project Name :
Project Location: WHA EIE

Lot ID: 25116201
Date Received : Jan 08, 2026
Date Reported : Jan 16, 2026
Report Number : 3482086-1

Guideline : Amendment details report of Environmental Health Impact Assessment Report of WHA Eastern Industrial Estate (Map Ta Put), 4th edition 2020, B.E. 2563
Sampling By : Sansoen Khuiyoksui ทะเบียนเลขที่ ว-323-จ-0005 , Samart Khumphlee ทะเบียนเลขที่ ว-204-จ-0084

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

Approved by
Dej Changchon
Senior Manager
ทะเบียนเลขที่ ว-323-ค-0001

TESTING
No.0042

Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
18, Pakornsongkrohraj Road, Tambol Huaypong, Amphur Muang, Rayong Thailand 21150
P/O :
Project Name :
Project Location: WHA EIE

Lot ID: 25116201
Date Received : Jan 08, 2026
Date Reported : Jan 16, 2026
Report Number : 3482086-1

Sample Number	25116201-1
Sampled Date	Jan 08, 2026 9:59 AM
Sample Description	Influent
Location	WHA EIE : Pumping Station
Date Analysis Commenced	Jan 08, 2026
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, a lot of solid and some turbid

Analyte	**Unit**	**LOD**	**LOQ (LOR)**	**Result**	**Guideline / Specification**	**Method**	**Testing Location**
Water Testing							
COD	mg/L	1.5	25	126	≤600	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Rayong
Formaldehyde	mg/L	0.03	0.1	0.2	≤1	Wastewater analysis manual, Environmental Engineering Association of Thailand, 4th ed.,2004	Rayong
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	Rayong
pH at 25 degree C		-	-	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)	Rayong
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)	Rayong
Temperature *	Degree C	-	-	32.1	≤45	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	1330	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong
Total Kjeldahl Nitrogen as N	mg/L	-	1.0	4.5	≤100	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-Norg (C), part NH3 (D)	Rayong
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	Rayong

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

Approved by
Dej Changchon
Senior Manager
ทะเบียนเลขที่ ว-323-ค-0001

Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
18, Pakornsongkrohraj Road, Tambol Huaypong, Amphur Muang, Rayong Thailand 21150
P/O :
Project Name :
Project Location: WHA EIE

Lot ID: 25116201
Date Received : Jan 08, 2026
Date Reported : Jan 17, 2026
Report Number : 3482086-3

Sample Number	25116201-1
Sampled Date	Jan 08, 2026 9:59 AM
Sample Description	Influent
Location	WHA EIE : Pumping Station
Date Analysis Commenced	Jan 08, 2026
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, a lot of solid and some turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Anionic Surfactant as MBAS	mg/L	0.015	0.05	1.89	≤30	Based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5540 B, C	Bangkok
Conductivity at 25 Degree C	micromhos/cm	-	0.5	2325	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2510 B	Rayong

Guideline : Amendment details report of Environmental Health Impact Assessment Report of WHA Eastern Industrial Estate (Map Ta Put), 4th edition 2020, B.E. 2563
Sampling By : Sansoen Khuiyoksui , Samart Khumphlee

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

Approved by Suwimon C.
Suwimon Chairuangwut
Scientist (3)

Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
18, Pakornsongkrohraj Road, Tambol Huaypong, Amphur Muang, Rayong Thailand 21150
P/O :
Project Name :
Project Location: WHA EIE

Lot ID: 25116201
Date Received : Jan 08, 2026
Date Reported : Jan 17, 2026
Report Number : 3482086-2

Sample Number	25116201-1
Sampled Date	Jan 08, 2026 9:59 AM
Sample Description	Influent
Location	WHA EIE : Pumping Station
Date Analysis Commenced	Jan 12, 2026
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, a lot of solid and some turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Total Phosphorus as P	mg/L	0.2	0.5	0.8	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-P (B, E)	Bangkok

Guideline : Amendment details report of Environmental Health Impact Assessment Report of WHA Eastern Industrial Estate (Map Ta Put), 4th edition 2020, B.E. 2563
Sampling By : Sansoen Khuiyoksui ทะเบียนเลขที่ ว-323-จ-0005 , Samart Khumphlee ทะเบียนเลขที่ ว-204-จ-0084

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

Technical Management Suwimon C.
Suwimon Chairuangwut
Scientist (3)
ทะเบียนเลขที่ ว-204-จ-0018

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

TESTING
No.0042

Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
18, Pakornsongkrohraj Road, Tambol Huaypong, Amphur Muang, Rayong Thailand 21150
P/O :
Project Name :
Project Location: WHA EIE

Lot ID: 268381
Date Received : Feb 02, 2026
Date Reported : Feb 10, 2026
Report Number : 3496297-1

Sample Number	268381-1
Sampled Date	Feb 02, 2026 10:09 AM
Sample Description	Influent
Location	WHA EIE : Pumping Station
Date Analysis Commenced	Feb 02, 2026
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, some solid and no turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Arsenic *	mg/L	0.002	0.005	Not Detected	≤0.25	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3120 B, 3030 F	Rayong
Cadmium *	mg/L	0.001	0.002	Not Detected	≤0.03	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3120 B, 3030 F	Rayong
Chromium *	mg/L	0.001	0.002	0.008	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3120 B, 3030 F	Rayong
Copper *	mg/L	0.005	0.01	<0.01	≤2.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3120 B, 3030 F	Rayong
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	Rayong
Lead *	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 3120 B, 3030 F	Rayong
Manganese *	mg/L	0.001	0.002	0.13	≤5.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3120 B, 3030 F	Rayong

Technical Management Jitsupa P.
Jitsupa Pratuangsuk
Scientist (2)
ทะเบียนเลขที่ ว-323-จ-0004

Approved by
Dej Changchon
Senior Manager
ทะเบียนเลขที่ ว-323-ค-0001

TESTING
No.0042

Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
18, Pakornsongkrohraj Road, Tambol Huaypong, Amphur Muang, Rayong Thailand 21150
P/O :
Project Name :
Project Location: WHA EIE

Lot ID: 25116201
Date Received : Jan 08, 2026
Date Reported : Jan 17, 2026
Report Number : 3482086-4

Sample Number	25116201-1
Sampled Date	Jan 08, 2026 9:59 AM
Sample Description	Influent
Location	WHA EIE : Pumping Station
Date Analysis Commenced	Jan 09, 2026
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, a lot of solid and some 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	32	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Rayong

Guideline : Amendment details report of Environmental Health Impact Assessment Report of WHA Eastern Industrial Estate (Map Ta Put), 4th edition 2020, B.E. 2563
Sampling By : Sansoen Khuiyoksui ทะเบียนเลขที่ ว-323-จ-0005 , Samart Khumphlee ทะเบียนเลขที่ ว-204-จ-0084

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 Jitsupa P.
Jitsupa Pratuangsuk
Scientist (2)
ทะเบียนเลขที่ ว-323-จ-0004

Approved by
Dej Changchon
Senior Manager
ทะเบียนเลขที่ ว-323-ค-0001

Analysis / Test Report

TESTING
No.0042

Client : WHA Utilities and Power Public Company Limited
18, Pakornsongkrohraj Road, Tambol Huaypong, Amphur Muang, Rayong Thailand 21150
P/O :
Project Name :
Project Location: WHA EIE

Lot ID: 268381
Date Received : Feb 02, 2026
Date Reported : Feb 10, 2026
Report Number : 3496297-1

Sample Number	268381-1
Sampled Date	Feb 02, 2026 10:09 AM
Sample Description	Influent
Location	WHA EIE : Pumping Station
Date Analysis Commenced	Feb 02, 2026
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, some solid and no turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
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	Rayong
pH at 25 degree C		-	-	7.3	5.5-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Rayong
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)	Rayong
Temperature *	Degree C	-	-	34.9	≤45	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	1200	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong
Total Kjeldahl Nitrogen as N	mg/L	-	1.0	3.7	≤100	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-Norg (C), part NH3 (D)	Rayong
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	Rayong

Guideline : Amendment details report of Environmental Health Impact Assessment Report of WHA Eastern Industrial Estate (Map Ta Put), 4th edition 2020, B.E. 2563
Sampling By : Suphanat Sakulkittimasak ทะเบียนเลขที่ ว-323-จ-0021 , Kardbundit Kitisupavanit ทะเบียนเลขที่ ว-204-จ-0001

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

Technical Management Jitsupa P.
Jitsupa Pratuangsuk
Scientist (2)
ทะเบียนเลขที่ ว-323-จ-0004

Approved by
Dej Changchon
Senior Manager
ทะเบียนเลขที่ ว-323-ค-0001

Analysis / Test Report

TESTING
No.0042

Client : WHA Utilities and Power Public Company Limited
18, Pakornsongkrohraj Road, Tambol Huaypong, Amphur Muang, Rayong Thailand 21150
P/O :
Project Name :
Project Location: WHA EIE

Lot ID: 268381
Date Received : Feb 02, 2026
Date Reported : Feb 10, 2026
Report Number : 3496297-1

Sample Number	268381-1
Sampled Date	Feb 02, 2026 10:09 AM
Sample Description	Influent
Location	WHA EIE : Pumping Station
Date Analysis Commenced	Feb 02, 2026
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, some 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 (B)	Rayong
Nickel *	mg/L	0.002	0.005	0.010	≤1.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3120 B, 3030 F	Rayong
Selenium *	mg/L	0.005	0.01	Not Detected	≤0.02	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3120 B, 3030 F	Rayong
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, Calculated	Rayong
Zinc *	mg/L	0.005	0.01	0.30	≤5.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3120 B, 3030 F	Rayong
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	20.9	≤300	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	73	≤600	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Rayong
Formaldehyde	mg/L	0.03	0.1	0.3	≤1	Wastewater analysis manual, Environmental Engineering Association of Thailand, 4th ed.,2004	Rayong

Technical Management Jitsupa P.
Jitsupa Pratuangsuk
Scientist (2)
ทะเบียนเลขที่ ว-323-จ-0004

Approved by
Dej Changchon
Senior Manager
ทะเบียนเลขที่ ว-323-ค-0001

Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
18, Pakornsongkrohraj Road, Tambol Huaypong, Amphur Muang, Rayong Thailand 21150
P/O :
Project Name :
Project Location: WHA EIE

Lot ID: 268381
Date Received : Feb 02, 2026
Date Reported : Feb 10, 2026
Report Number : 3496297-2

Sample Number	268381-1
Sampled Date	Feb 02, 2026 10:09 AM
Sample Description	Influent
Location	WHA EIE : Pumping Station
Date Analysis Commenced	Feb 04, 2026
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, some solid and no turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Total Phosphorus as P	mg/L	0.2	0.5	0.7	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-P (B, E)	Bangkok

Guideline : Amendment details report of Environmental Health Impact Assessment Report of WHA Eastern Industrial Estate (Map Ta Put), 4th edition 2020, B.E. 2563
Sampling By : Suphanat Sakulkittimasak ทะเบียนเลขที่ ว-323-จ-0021 , Kardbundit Kitisupavanit ทะเบียนเลขที่ ว-204-จ-0001

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

Technical Management Suwimon C.
Suwimon Chairuangwut
Scientist (3)
ทะเบียนเลขที่ ว-204-จ-0018

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

TESTING
No.0042

Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
18, Pakornsongkrohraj Road, Tambol Huaypong, Amphur Muang, Rayong Thailand 21150
P/O :
Project Name :
Project Location: WHA EIE

Lot ID: 268381
Date Received : Feb 02, 2026
Date Reported : Feb 10, 2026
Report Number : 3496297-1

- 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 Jitsupa P.
Jitsupa Pratuangsuk
Scientist (2)
ทะเบียนเลขที่ ว-323-จ-0004

Approved by
Dej Changchon
Senior Manager
ทะเบียนเลขที่ ว-323-ค-0001

TESTING
No.0042

Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
18, Pakornsongkrohraj Road, Tambol Huaypong, Amphur Muang, Rayong Thailand 21150
P/O :
Project Name :
Project Location: WHA EIE

Lot ID: 2616331
Date Received : Mar 05, 2026
Date Reported : Mar 13, 2026
Report Number : 3512622-1

Sample Number	2616331-1
Sampled Date	Mar 05, 2026 10:04 AM
Sample Description	Influent
Location	WHA EIE : Pumping Station
Date Analysis Commenced	Mar 05, 2026
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, a lot of solid and some turbid

Analyte	**Unit**	**LOD**	**LOQ (LOR)**	**Result**	**Guideline / Specification**	**Method**	**Testing Location**
Metals Testing							
Arsenic *	mg/L	0.002	0.005	Not Detected	≤0.25	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3120 B, 3030 F	Rayong
Cadmium *	mg/L	0.001	0.002	Not Detected	≤0.03	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3120 B, 3030 F	Rayong
Chromium *	mg/L	0.001	0.002	0.009	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3120 B, 3030 F	Rayong
Copper *	mg/L	0.005	0.01	0.02	≤2.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3120 B, 3030 F	Rayong
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	Rayong
Lead *	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 3120 B, 3030 F	Rayong
Manganese *	mg/L	0.001	0.002	0.22	≤5.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3120 B, 3030 F	Rayong

Technical Management
Jitsupa P.
Jitsupa Pratuangsuk
Scientist (2)
ทะเบียนเลขที่ ว-323-จ-0004

Approved by
Dej Changchon
Senior Manager
ทะเบียนเลขที่ ว-323-ค-0001

Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
18, Pakornsongkrohraj Road, Tambol Huaypong, Amphur Muang, Rayong Thailand 21150
P/O :
Project Name :
Project Location: WHA EIE

Lot ID: 268381
Date Received : Feb 02, 2026
Date Reported : Feb 10, 2026
Report Number : 3496297-3

Sample Number	268381-1
Sampled Date	Feb 02, 2026 10:09 AM
Sample Description	Influent
Location	WHA EIE : Pumping Station
Date Analysis Commenced	Feb 02, 2026
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, some solid and no turbid

Analyte	**Unit**	**LOD**	**LOQ (LOR)**	**Result**	**Guideline / Specification**	**Method**	**Testing Location**
Metals Testing							
Iron	mg/L	0.005	0.01	2.24	≤10	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3120 B, 3030 F	Rayong
Water Testing							
Anionic Surfactant as MBAS	mg/L	0.015	0.05	0.56	≤30	Based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5540 B, C	Bangkok
Conductivity at 25 Degree C	micromhos/cm	-	0.5	1919	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2510 B	Rayong

Guideline : Amendment details report of Environmental Health Impact Assessment Report of WHA Eastern Industrial Estate (Map Ta Put), 4th edition 2020, B.E. 2563
Sampling By : Suphanat Sakulkittimasak , Kardbundit Kitisupavanit

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

Approved by
Suwimon C.
Suwimon Chairuangwut
Scientist (3)

Analysis / Test Report

TESTING
No.0042

Client : WHA Utilities and Power Public Company Limited
18, Pakornsongkrohraj Road, Tambol Huaypong, Amphur Muang, Rayong Thailand 21150
P/O :
Project Name :
Project Location: WHA EIE

Lot ID: 2616331
Date Received : Mar 05, 2026
Date Reported : Mar 13, 2026
Report Number : 3512622-1

Sample Number	2616331-1
Sampled Date	Mar 05, 2026 10:04 AM
Sample Description	Influent
Location	WHA EIE : Pumping Station
Date Analysis Commenced	Mar 05, 2026
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, a lot of solid and some turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
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	Rayong
pH at 25 degree C		-	-	7.4	5.5-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Rayong
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)	Rayong
Temperature *	Degree C	-	-	37.6	≤45	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	1560	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong
Total Kjeldahl Nitrogen as N	mg/L	-	1.0	10.4	≤100	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-Norg (C), part NH3 (D)	Rayong
Total Suspended Solids Dried from 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	Rayong

Guideline : Amendment details report of Environmental Health Impact Assessment Report of WHA Eastern Industrial Estate (Map Ta Put), 4th edition 2020, B.E. 2563
Sampling By : Sansoen Khuiyoksui ทะเบียนเลขที่ ว-323-จ-0005 , Kardbundit Kitisupavanit ทะเบียนเลขที่ ว-204-จ-0001

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

Technical Management Jitsupa P.
Jitsupa Pratuangsuk
Scientist (2)
ทะเบียนเลขที่ ว-323-จ-0004

Approved by
Dej Changchon
Senior Manager
ทะเบียนเลขที่ ว-323-ค-0001

Analysis / Test Report

TESTING
No.0042

Client : WHA Utilities and Power Public Company Limited
18, Pakornsongkrohraj Road, Tambol Huaypong, Amphur Muang, Rayong Thailand 21150
P/O :
Project Name :
Project Location: WHA EIE

Lot ID: 2616331
Date Received : Mar 05, 2026
Date Reported : Mar 13, 2026
Report Number : 3512622-1

Sample Number	2616331-1
Sampled Date	Mar 05, 2026 10:04 AM
Sample Description	Influent
Location	WHA EIE : Pumping Station
Date Analysis Commenced	Mar 05, 2026
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, a lot of solid and some 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 (B)	Rayong
Nickel *	mg/L	0.002	0.005	0.01	≤1.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3120 B, 3030 F	Rayong
Selenium *	mg/L	0.005	0.01	Not Detected	≤0.02	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3120 B, 3030 F	Rayong
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, Calculated	Rayong
Zinc *	mg/L	0.005	0.01	0.35	≤5.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3120 B, 3030 F	Rayong
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	6.7	≤300	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	75	≤600	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Rayong
Formaldehyde	mg/L	0.03	0.1	0.1	≤1	Wastewater analysis manual, Environmental Engineering Association of Thailand, 4th ed.,2004	Rayong

Technical Management Jitsupa P.
Jitsupa Pratuangsuk
Scientist (2)
ทะเบียนเลขที่ ว-323-จ-0004

Approved by
Dej Changchon
Senior Manager
ทะเบียนเลขที่ ว-323-ค-0001

Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
18, Pakornsongkrohraj Road, Tambol Huaypong, Amphur Muang, Rayong Thailand 21150
P/O :
Project Name :
Project Location: WHA EIE

Lot ID: 2616331
Date Received : Mar 05, 2026
Date Reported : Mar 13, 2026
Report Number : 3512622-2

Sample Number	2616331-1
Sampled Date	Mar 05, 2026 10:04 AM
Sample Description	Influent
Location	WHA EIE : Pumping Station
Date Analysis Commenced	Mar 09, 2026
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, a lot of solid and some turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
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

Guideline : Amendment details report of Environmental Health Impact Assessment Report of WHA Eastern Industrial Estate (Map Ta Put), 4th edition 2020, B.E. 2563
Sampling By : Sansoen Khuiyoksui ทะเบียนเลขที่ ว-323-จ-0005 , Kardbundit Kitisupavanit ทะเบียนเลขที่ ว-204-จ-0001

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

Technical Management Suwimon C.
Suwimon Chairuangwut
Scientist (3)
ทะเบียนเลขที่ ว-204-จ-0018

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

Analysis / Test Report

TESTING
No.0042

Client : WHA Utilities and Power Public Company Limited
18, Pakornsongkrohraj Road, Tambol Huaypong, Amphur Muang, Rayong Thailand 21150
P/O :
Project Name :
Project Location: WHA EIE

Lot ID: 2616331
Date Received : Mar 05, 2026
Date Reported : Mar 13, 2026
Report Number : 3512622-1

- 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 Jitsupa P.
Jitsupa Pratuangsuk
Scientist (2)
ทะเบียนเลขที่ ว-323-จ-0004

Approved by
Dej Changchon
Senior Manager
ทะเบียนเลขที่ ว-323-ค-0001

TESTING
No.0042

Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
18, Pakornsongkrohraj Road, Tambol Huaypong, Amphur Muang, Rayong Thailand 21150
P/O :
Project Name :
Project Location: WHA EIE

Lot ID: 2626152
Date Received : Apr 02, 2026
Date Reported : Apr 09, 2026
Report Number : 3535952-1

Sample Number	2626152-1
Sampled Date	Apr 02, 2026 3:12 PM
Sample Description	Influent
Location	WHA EIE : Pumping Station
Date Analysis Commenced	Apr 02, 2026
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 turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Arsenic *	mg/L	0.002	0.005	Not Detected	≤0.25	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3120 B, 3030 F	Rayong
Cadmium *	mg/L	0.001	0.002	Not Detected	≤0.03	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3120 B, 3030 F	Rayong
Chromium *	mg/L	0.001	0.002	0.005	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3120 B, 3030 F	Rayong
Copper *	mg/L	0.005	0.01	0.02	≤2.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3120 B, 3030 F	Rayong
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	Rayong
Lead *	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 3120 B, 3030 F	Rayong
Manganese *	mg/L	0.001	0.002	0.21	≤5.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3120 B, 3030 F	Rayong

Technical Management Jitsupa P.
Jitsupa Pratuangsuk
Scientist (2)
ทะเบียนเลขที่ ว-323-จ-0004

Approved by
Dej Changchon
Senior Manager
ทะเบียนเลขที่ ว-323-ค-0001

Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
18, Pakornsongkrohraj Road, Tambol Huaypong, Amphur Muang, Rayong Thailand 21150
P/O :
Project Name :
Project Location: WHA EIE

Lot ID: 2616331
Date Received : Mar 05, 2026
Date Reported : Mar 13, 2026
Report Number : 3512622-3

Sample Number	2616331-1
Sampled Date	Mar 05, 2026 10:04 AM
Sample Description	Influent
Location	WHA EIE : Pumping Station
Date Analysis Commenced	Mar 05, 2026
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, a lot of solid and some turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Iron	mg/L	0.005	0.01	3.12	≤10	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3120 B, 3030 F	Rayong
Water Testing							
Anionic Surfactant as MBAS	mg/L	0.015	0.05	0.94	≤30	Based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5540 B, C	Bangkok
Conductivity at 25 Degree C	micromhos/cm	-	0.5	2607	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2510 B	Rayong

Guideline : Amendment details report of Environmental Health Impact Assessment Report of WHA Eastern Industrial Estate (Map Ta Put), 4th edition 2020, B.E. 2563
Sampling By : Sansoen Khuiyoksui , Kardbundit Kitisupavanit

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

Approved by Suwimon C.
Suwimon Chairuangwut
Scientist (3)

TESTING
No.0042

Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
18, Pakornsongkrohraj Road, Tambol Huaypong, Amphur Muang, Rayong Thailand 21150
P/O :
Project Name :
Project Location: WHA EIE

Lot ID: 2626152
Date Received : Apr 02, 2026
Date Reported : Apr 09, 2026
Report Number : 3535952-1

Sample Number	2626152-1
Sampled Date	Apr 02, 2026 3:12 PM
Sample Description	Influent
Location	WHA EIE : Pumping Station
Date Analysis Commenced	Apr 02, 2026
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 turbid

Analyte	**Unit**	**LOD**	**LOQ (LOR)**	**Result**	**Guideline / Specification**	**Method**	**Testing Location**
Water Testing							
pH at 25 degree C		-	-	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)	Rayong
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)	Rayong
Temperature *	Degree C	-	-	37.0	≤45	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	1000	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong
Total Kjeldahl Nitrogen as N	mg/L	-	1.0	5.5	≤100	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-Norg (C), part NH3 (D)	Rayong
Total Suspended Solids Dried from 103-105 degree C	mg/L	-	5	69	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Rayong

Guideline : Amendment details report of Environmental Health Impact Assessment Report of WHA Eastern Industrial Estate (Map Ta Put), 4th edition 2020, B.E. 2563
Sampling By : Phongthep Sitthiloh ทะเบียนเลขที่ ว-323-จ-0023 , Pattarapol Sawangjaitam ทะเบียนเลขที่ ว-204-จ-0002

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

Technical Management Jitsupa P.
Jitsupa Pratuangsuk
Scientist (2)
ทะเบียนเลขที่ ว-323-จ-0004

Approved by
Dej Changchon
Senior Manager
ทะเบียนเลขที่ ว-323-ค-0001

TESTING
No.0042

Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
18, Pakornsongkrohraj Road, Tambol Huaypong, Amphur Muang, Rayong Thailand 21150
P/O :
Project Name :
Project Location: WHA EIE

Lot ID: 2626152
Date Received : Apr 02, 2026
Date Reported : Apr 09, 2026
Report Number : 3535952-1

Sample Number	2626152-1
Sampled Date	Apr 02, 2026 3:12 PM
Sample Description	Influent
Location	WHA EIE : Pumping Station
Date Analysis Commenced	Apr 02, 2026
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 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 (B)	Rayong
Nickel *	mg/L	0.002	0.005	0.01	≤1.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3120 B, 3030 F	Rayong
Selenium *	mg/L	0.005	0.01	<0.01	≤0.02	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3120 B, 3030 F	Rayong
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, Calculated	Rayong
Zinc *	mg/L	0.005	0.01	0.30	≤5.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3120 B, 3030 F	Rayong
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	63.1	≤300	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	212	≤600	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Rayong
Formaldehyde	mg/L	0.03	0.1	0.2	≤1	Wastewater analysis manual, Environmental Engineering Association of Thailand, 4th ed.,2004	Rayong

Technical Management Jitsupa P.
Jitsupa Pratuangsuk
Scientist (2)
ทะเบียนเลขที่ ว-323-จ-0004

Approved by
Dej Changchon
Senior Manager
ทะเบียนเลขที่ ว-323-ค-0001

Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
18, Pakornsongkrohraj Road, Tambol Huaypong, Amphur Muang, Rayong Thailand 21150
P/O :
Project Name :
Project Location: WHA EIE

Lot ID: 2626152
Date Received : Apr 02, 2026
Date Reported : Apr 10, 2026
Report Number : 3535952-3

Sample Number	2626152-1
Sampled Date	Apr 02, 2026 3:12 PM
Sample Description	Influent
Location	WHA EIE : Pumping Station
Date Analysis Commenced	Apr 03, 2026
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 turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Iron	mg/L	0.005	0.01	6.40	≤10	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3120 B, 3030 F	Rayong
Water Testing							
Anionic Surfactant as MBAS	mg/L	0.015	0.05	2.54	≤30	Based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5540 B, C	Bangkok
Conductivity at 25 Degree C	micromhos/cm	-	0.5	1797	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2510 B	Rayong

Guideline : Amendment details report of Environmental Health Impact Assessment Report of WHA Eastern Industrial Estate (Map Ta Put), 4th edition 2020, B.E. 2563
Sampling By : Phongthep Sitthiloh , Pattarapol Sawangjaitam

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

Approved by Siriluk P.
Siriluk Bunnak
Section Head

Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
18, Pakornsongkrohraj Road, Tambol Huaypong, Amphur Muang, Rayong Thailand 21150
P/O :
Project Name :
Project Location: WHA EIE

Lot ID: 2626152
Date Received : Apr 02, 2026
Date Reported : Apr 10, 2026
Report Number : 3535952-2

Sample Number	2626152-1
Sampled Date	Apr 02, 2026 3:12 PM
Sample Description	Influent
Location	WHA EIE : Pumping Station
Date Analysis Commenced	Apr 04, 2026
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 turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Total Phosphorus as P	mg/L	0.2	0.5	0.7	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-P (B, E)	Bangkok

Guideline : Amendment details report of Environmental Health Impact Assessment Report of WHA Eastern Industrial Estate (Map Ta Put), 4th edition 2020, B.E. 2563
Sampling By : Phongthep Sitthiloh ทะเบียนเลขที่ ว-323-จ-0023 , Pattarapol Sawangjaitam ทะเบียนเลขที่ ว-204-จ-0002

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

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

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

TESTING
No.0042

Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
18, Pakornsongkrohraj Road, Tambol Huaypong, Amphur Muang, Rayong Thailand 21150
P/O :
Project Name :
Project Location: WHA EIE

Lot ID: 2635565
Date Received : May 05, 2026
Date Reported : May 13, 2026
Report Number : 3558677-1

Sample Number	2635565-1
Sampled Date	May 05, 2026 9:34 AM
Sample Description	Influent
Location	WHA EIE : Pumping Station
Date Analysis Commenced	May 05, 2026
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 turbid

Analyte	**Unit**	**LOD**	**LOQ (LOR)**	**Result**	**Guideline / Specification**	**Method**	**Testing Location**
Metals Testing							
Arsenic *	mg/L	0.002	0.005	Not Detected	≤0.25	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3120 B, 3030 F	Rayong
Cadmium *	mg/L	0.001	0.002	Not Detected	≤0.03	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3120 B, 3030 F	Rayong
Chromium *	mg/L	0.001	0.002	0.006	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3120 B, 3030 F	Rayong
Copper *	mg/L	0.005	0.01	0.04	≤2.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3120 B, 3030 F	Rayong
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	Rayong
Lead *	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 3120 B, 3030 F	Rayong
Manganese *	mg/L	0.001	0.002	0.21	≤5.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3120 B, 3030 F	Rayong

Technical Management Jitsupa P.
Jitsupa Pratuangsuk
Scientist (2)
ทะเบียนเลขที่ ว-323-จ-0004

Approved by
Dej Changchon
Senior Manager
ทะเบียนเลขที่ ว-323-ค-0001

TESTING
No.0042

Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
18, Pakornsongkrohraj Road, Tambol Huaypong, Amphur Muang, Rayong Thailand 21150
P/O :
Project Name :
Project Location: WHA EIE

Lot ID: 2626152
Date Received : Apr 02, 2026
Date Reported : Apr 09, 2026
Report Number : 3535952-4

Sample Number	2626152-1
Sampled Date	Apr 02, 2026 3:12 PM
Sample Description	Influent
Location	WHA EIE : Pumping Station
Date Analysis Commenced	Apr 03, 2026
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 turbid

Analyte	**Unit**	**LOD**	**LOQ (LOR)**	**Result**	**Guideline / Specification**	**Method**	**Testing Location**
Water Testing							
Oil & Grease	mg/L	-	3	21	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Rayong

Guideline : Amendment details report of Environmental Health Impact Assessment Report of WHA Eastern Industrial Estate (Map Ta Put), 4th edition 2020, B.E. 2563
Sampling By : Phongthep Sitthiloh ทะเบียนเลขที่ ว-323-จ-0023 , Pattarapol Sawangjaitam ทะเบียนเลขที่ ว-204-จ-0002

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

Technical Management Jitsupa P.
Jitsupa Pratuangsuk
Scientist (2)
ทะเบียนเลขที่ ว-323-จ-0004

Approved by
Dej Changchon
Senior Manager
ทะเบียนเลขที่ ว-323-ค-0001

TESTING
No.0042

Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
18, Pakornsongkrohraj Road, Tambol Huaypong, Amphur Muang, Rayong Thailand 21150
P/O :
Project Name :
Project Location: WHA EIE

Lot ID: 2635565
Date Received : May 05, 2026
Date Reported : May 13, 2026
Report Number : 3558677-1

Sample Number	2635565-1
Sampled Date	May 05, 2026 9:34 AM
Sample Description	Influent
Location	WHA EIE : Pumping Station
Date Analysis Commenced	May 05, 2026
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 turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Color (at pH 7.0)	ADMI	-	5	17	≤600	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2120 F	Rayong
Formaldehyde	mg/L	0.03	0.1	0.3	≤1	Wastewater analysis manual, Environmental Engineering Association of Thailand, 4th ed.,2004	Rayong
pH at 25 degree C		-	-	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)	Rayong
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)	Rayong
Temperature *	Degree C	-	-	37.7	≤45	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	1550	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong
Total Kjeldahl Nitrogen as N	mg/L	-	1.0	3.6	≤100	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-Norg (C), part NH3 (D)	Rayong
Total Suspended Solids Dried from 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	Rayong

Guideline : Amendment details report of Environmental Health Impact Assessment Report of WHA Eastern Industrial Estate (Map Ta Put), 4th edition 2020, B.E. 2563

Technical Management Jitsupa P.
Jitsupa Pratuangsuk
Scientist (2)
ทะเบียนเลขที่ ว-323-จ-0004

Approved by
Dej Changchon
Senior Manager
ทะเบียนเลขที่ ว-323-ค-0001

TESTING
No.0042

Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
18, Pakornsongkrohraj Road, Tambol Huaypong, Amphur Muang, Rayong Thailand 21150
P/O :
Project Name :
Project Location: WHA EIE

Lot ID: 2635565
Date Received : May 05, 2026
Date Reported : May 13, 2026
Report Number : 3558677-1

Sample Number	2635565-1
Sampled Date	May 05, 2026 9:34 AM
Sample Description	Influent
Location	WHA EIE : Pumping Station
Date Analysis Commenced	May 05, 2026
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 turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Mercury *	mg/L	0.0001	0.0005	<0.0005	≤0.005	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3112 (B)	Rayong
Nickel *	mg/L	0.002	0.005	0.02	≤1.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3120 B, 3030 F	Rayong
Selenium *	mg/L	0.005	0.01	Not Detected	≤0.02	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3120 B, 3030 F	Rayong
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, Calculated	Rayong
Zinc *	mg/L	0.005	0.01	0.31	≤5.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3120 B, 3030 F	Rayong
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	35.8	≤300	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	136	≤600	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Rayong
Color (at Original pH)	ADMI	-	5	19	≤600	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2120 F	Rayong

Technical Management Jitsupa P.
Jitsupa Pratuangsuk
Scientist (2)
ทะเบียนเลขที่ ว-323-จ-0004

Approved by
Dej Changchon
Senior Manager
ทะเบียนเลขที่ ว-323-ค-0001

Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
18, Pakornsongkrohraj Road, Tambol Huaypong, Amphur Muang, Rayong Thailand 21150
P/O :
Project Name :
Project Location: WHA EIE

Lot ID: 2635565
Date Received : May 05, 2026
Date Reported : May 13, 2026
Report Number : 3558677-2

Sample Number	2635565-1
Sampled Date	May 05, 2026 9:34 AM
Sample Description	Influent
Location	WHA EIE : Pumping Station
Date Analysis Commenced	May 07, 2026
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 turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
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

Guideline : Amendment details report of Environmental Health Impact Assessment Report of WHA Eastern Industrial Estate (Map Ta Put), 4th edition 2020, B.E. 2563
Sampling By : Warunyoo Chimphalee ทะเบียนเลขที่ ว-323-จ-0020 , Samart Khumphlee ทะเบียนเลขที่ ว-204-จ-0084

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

Technical Management Suwimon C.
Suwimon Chairuangwut
Scientist (3)
ทะเบียนเลขที่ ว-204-จ-0018

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

LABORATORY ACCREDITATION
BLA-DSS
TESTING
No.0042

Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
18, Pakornsongkrohraj Road, Tambol Huaypong, Amphur Muang, Rayong Thailand 21150
P/O :
Project Name :
Project Location: WHA EIE

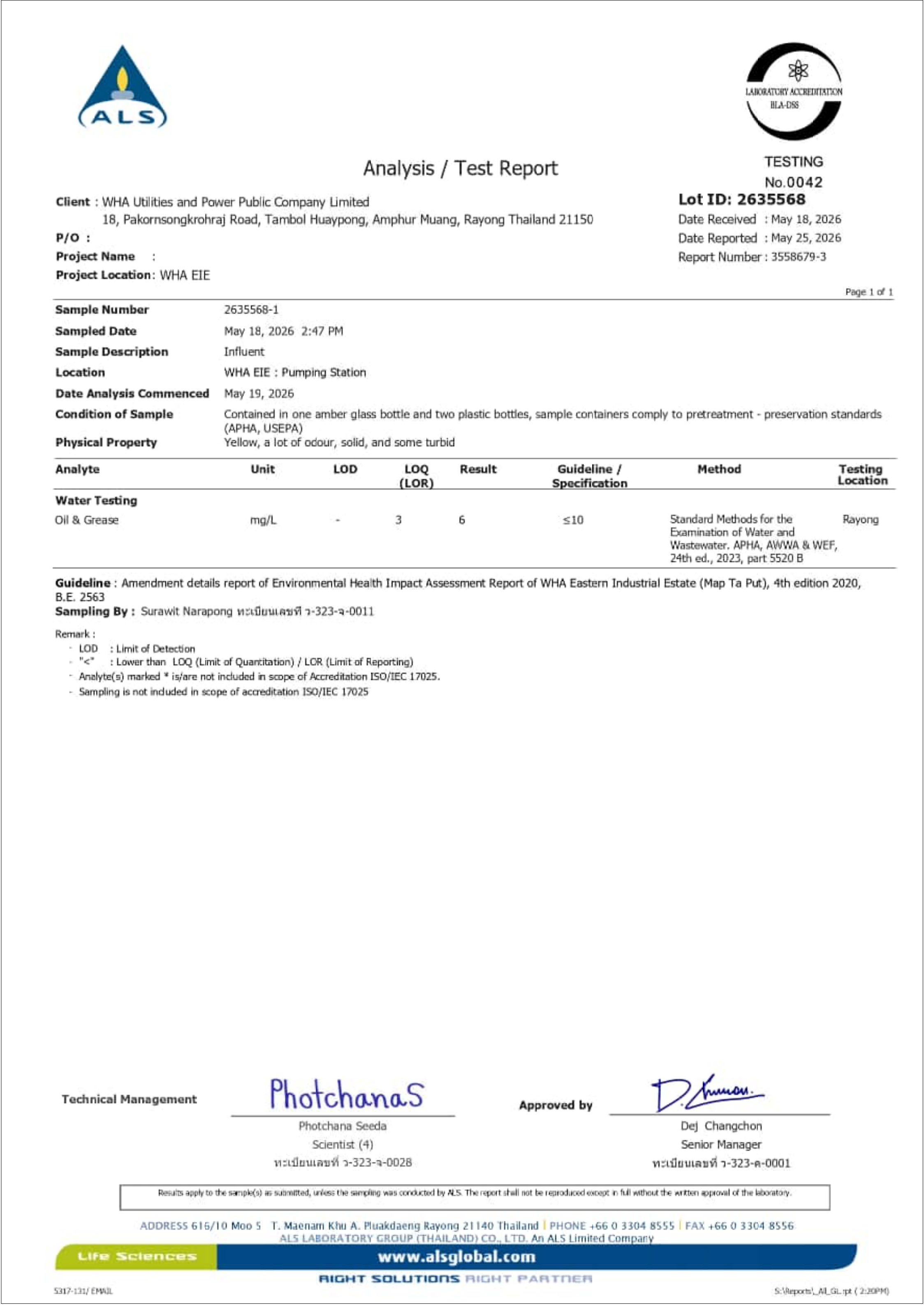
Lot ID: 2635565
Date Received : May 05, 2026
Date Reported : May 13, 2026
Report Number : 3558677-1

Sampling By : Warunyoo Chimphalee ทะเบียนเลขที่ ว-323-จ-0020 , Samart Khumphlee ทะเบียนเลขที่ ว-204-จ-0084

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 Jitsupa P.
Jitsupa Pratuangsuk
Scientist (2)
ทะเบียนเลขที่ ว-323-จ-0004

Approved by
Dej Changchon
Senior Manager
ทะเบียนเลขที่ ว-323-ค-0001



LABORATORY ACCREDITATION
BLA-DSS
TESTING
No.0042

Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
18, Pakornsongkrohraj Road, Tambol Huaypong, Amphur Muang, Rayong Thailand 21150
P/O :
Project Name :
Project Location: WHA EIE

Lot ID: 2635568
Date Received : May 18, 2026
Date Reported : May 25, 2026
Report Number : 3558679-3

Page 1 of 1

Sample Number	2635568-1
Sampled Date	May 18, 2026 2:47 PM
Sample Description	Influent
Location	WHA EIE : Pumping Station
Date Analysis Commenced	May 19, 2026
Condition of Sample	Contained in one amber glass bottle and two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property	Yellow, a lot of odour, solid, and some turbid

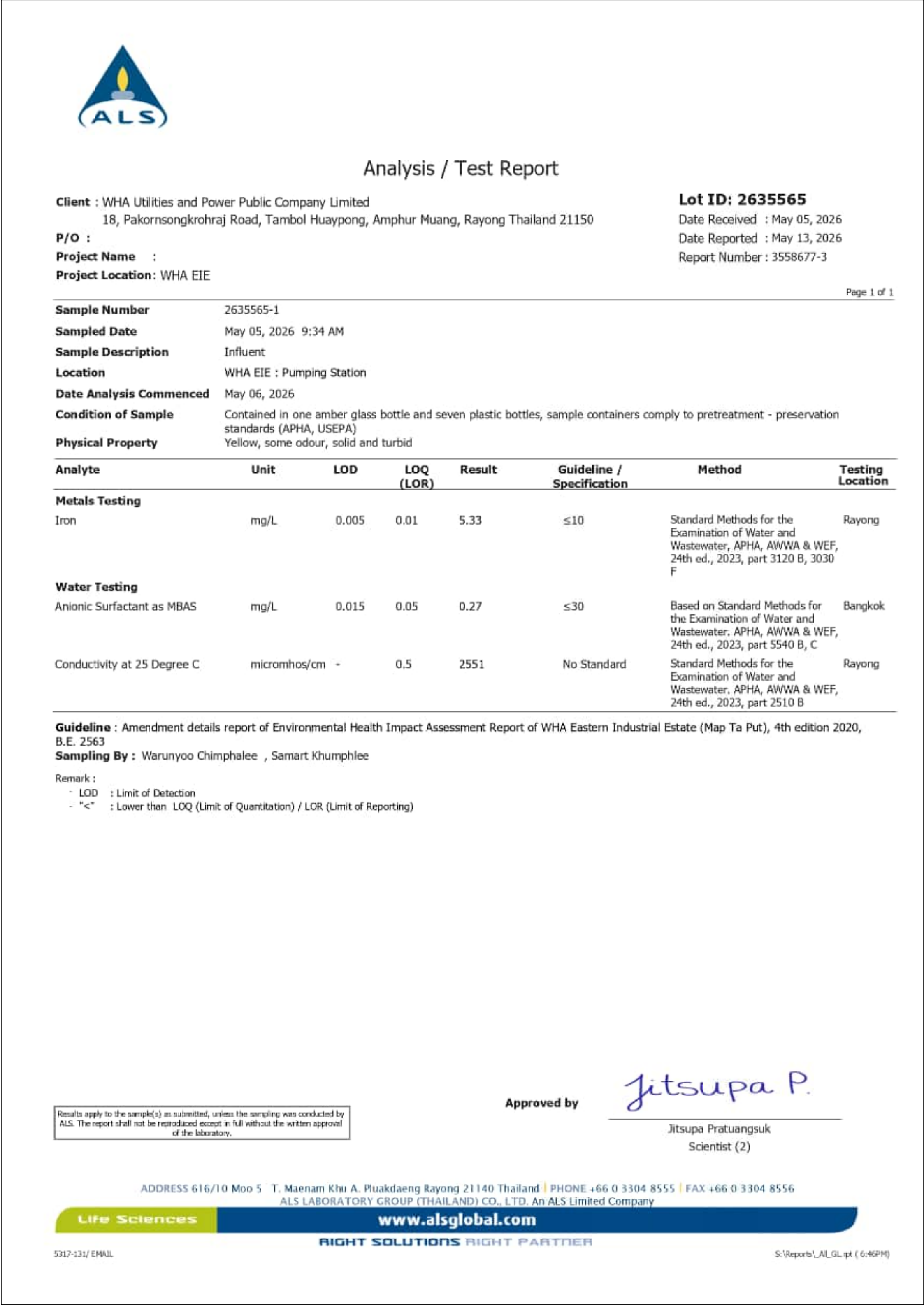
Analyte	**Unit**	**LOD**	**LOQ (LOR)**	**Result**	**Guideline / Specification**	**Method**	**Testing Location**
Water Testing							
Oil & Grease	mg/L	-	3	6	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Rayong

Guideline : Amendment details report of Environmental Health Impact Assessment Report of WHA Eastern Industrial Estate (Map Ta Put), 4th edition 2020, B.E. 2563
Sampling By : Surawit Narapong ทะเบียนเลขที่ ว-323-จ-0011

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

Approved by
Dej Changchon
Senior Manager
ทะเบียนเลขที่ ว-323-ค-0001



Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
18, Pakornsongkrohraj Road, Tambol Huaypong, Amphur Muang, Rayong Thailand 21150
P/O :
Project Name :
Project Location: WHA EIE

Lot ID: 2635565
Date Received : May 05, 2026
Date Reported : May 13, 2026
Report Number : 3558677-3

Page 1 of 1

Sample Number	2635565-1
Sampled Date	May 05, 2026 9:34 AM
Sample Description	Influent
Location	WHA EIE : Pumping Station
Date Analysis Commenced	May 06, 2026
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 turbid

Analyte	**Unit**	**LOD**	**LOQ (LOR)**	**Result**	**Guideline / Specification**	**Method**	**Testing Location**
Metals Testing							
Iron	mg/L	0.005	0.01	5.33	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3120 B, 3030 F	Rayong
Water Testing							
Anionic Surfactant as MBAS	mg/L	0.015	0.05	0.27	≤30	Based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5540 B, C	Bangkok
Conductivity at 25 Degree C	micromhos/cm	-	0.5	2551	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2510 B	Rayong

Guideline : Amendment details report of Environmental Health Impact Assessment Report of WHA Eastern Industrial Estate (Map Ta Put), 4th edition 2020, B.E. 2563
Sampling By : Warunyoo Chimphalee , Samart Khumphlee

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

Approved by Jitsupa P.
Jitsupa Pratuangsuk
Scientist (2)

Analysis / Test Report

TESTING
No.0042

Client : WHA Utilities and Power Public Company Limited
18, Pakornsongkrohraj Road, Tambol Huaypong, Amphur Muang, Rayong Thailand 21150
P/O :
Project Name :
Project Location: WHA EIE

Lot ID: 2646767
Date Received : Jun 02, 2026
Date Reported : Jun 11, 2026
Report Number : 3583784-1

Sample Number	2646767-1
Sampled Date	Jun 02, 2026 10:20 AM
Sample Description	Influent
Location	WHA EIE : Pumping Station
Date Analysis Commenced	Jun 02, 2026
Condition of Sample	Contained in three amber glass bottles and ten 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							
Manganese	mg/L	0.001	0.002	0.25	≤5.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3120 B, 3030 F	Rayong
Mercury	mg/L	0.0001	0.0005	<0.0005	≤0.005	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3112 (B)	Rayong
Nickel	mg/L	0.002	0.005	0.01	≤1.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3120 B, 3030 F	Rayong
Selenium	mg/L	0.005	0.01	Not Detected	≤0.02	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3120 B, 3030 F	Rayong
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, Calculated	Rayong
Zinc	mg/L	0.005	0.01	0.25	≤5.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3120 B, 3030 F	Rayong
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	45.3	≤300	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Rayong

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

Approved by
Dej Changchon
Senior Manager
ทะเบียนเลขที่ ว-323-ค-0001

Analysis / Test Report

TESTING
No.0042

Client : WHA Utilities and Power Public Company Limited
18, Pakornsongkrohraj Road, Tambol Huaypong, Amphur Muang, Rayong Thailand 21150
P/O :
Project Name :
Project Location: WHA EIE

Lot ID: 2646767
Date Received : Jun 02, 2026
Date Reported : Jun 11, 2026
Report Number : 3583784-1

Sample Number	2646767-1
Sampled Date	Jun 02, 2026 10:20 AM
Sample Description	Influent
Location	WHA EIE : Pumping Station
Date Analysis Commenced	Jun 02, 2026
Condition of Sample	Contained in three amber glass bottles and ten 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							
Arsenic	mg/L	0.002	0.005	Not Detected	≤0.25	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3120 B, 3030 F	Rayong
Barium	mg/L	0.002	0.005	0.12	≤1.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3120 B, 3030 F	Rayong
Cadmium	mg/L	0.001	0.002	Not Detected	≤0.03	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3120 B, 3030 F	Rayong
Chromium	mg/L	0.001	0.002	0.006	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3120 B, 3030 F	Rayong
Copper	mg/L	0.005	0.01	0.01	≤2.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3120 B, 3030 F	Rayong
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	Rayong
Lead	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 3120 B, 3030 F	Rayong

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

Approved by
Dej Changchon
Senior Manager
ทะเบียนเลขที่ ว-323-ค-0001

TESTING
No.0042

Analysis / Test Report

Lot ID: 2646767
Date Received : Jun 02, 2026
Date Reported : Jun 11, 2026
Report Number : 3583784-1

Client : WHA Utilities and Power Public Company Limited
18, Pakornsongkrohraj Road, Tambol Huaypong, Amphur Muang, Rayong Thailand 21150
P/O :
Project Name :
Project Location: WHA EIE

Sample Number	2646767-1
Sampled Date	Jun 02, 2026 10:20 AM
Sample Description	Influent
Location	WHA EIE : Pumping Station
Date Analysis Commenced	Jun 02, 2026
Condition of Sample	Contained in three amber glass bottles and ten 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							
Temperature *	Degree C	-	-	35.8	≤45	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Rayong
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	Rayong
Total Kjeldahl Nitrogen as N	mg/L	-	1.0	16.3	≤100	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-Norg (C), part NH3 (D)	Rayong
Total Suspended Solids Dried from 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	Rayong

Guideline : Amendment details report of Environmental Health Impact Assessment Report of WHA Eastern Industrial Estate (Map Ta Put), 4th edition 2020, B.E. 2563
Sampling By : Surawit Narapong ทะเบียนเลขที่ ว-323-จ-0011 , Thanasoun Namakunna ทะเบียนเลขที่ ว-204-จ-0101

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

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

Approved by
Dej Changchon
Senior Manager
ทะเบียนเลขที่ ว-323-ค-0001

TESTING
No.0042

Analysis / Test Report

Lot ID: 2646767
Date Received : Jun 02, 2026
Date Reported : Jun 11, 2026
Report Number : 3583784-1

Client : WHA Utilities and Power Public Company Limited
18, Pakornsongkrohraj Road, Tambol Huaypong, Amphur Muang, Rayong Thailand 21150
P/O :
Project Name :
Project Location: WHA EIE

Sample Number	2646767-1
Sampled Date	Jun 02, 2026 10:20 AM
Sample Description	Influent
Location	WHA EIE : Pumping Station
Date Analysis Commenced	Jun 02, 2026
Condition of Sample	Contained in three amber glass bottles and ten 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	1.5	25	175	≤600	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Rayong
Cyanide as HCN	mg/L	0.001	0.005	0.012	≤0.2	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-CN (C, E)	Rayong
Formaldehyde	mg/L	0.03	0.1	0.3	≤1	Wastewater analysis manual, Environmental Engineering Association of Thailand, 4th ed.,2004	Rayong
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	Rayong
pH at 25 degree C		-	-	7.3	5.5-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Rayong
Phenol	mg/L	0.005	0.01	0.03	≤1	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5530 B, D	Rayong
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)	Rayong
Sulfide *	mg/L	-	0.5	0.8	≤1	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-S2 (C, F)	Rayong

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

Approved by
Dej Changchon
Senior Manager
ทะเบียนเลขที่ ว-323-ค-0001

Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
18, Pakornsongkrohraj Road, Tambol Huaypong, Amphur Muang, Rayong Thailand 21150
P/O :
Project Name :
Project Location: WHA EIE

Lot ID: 2646767
Date Received : Jun 02, 2026
Date Reported : Jun 10, 2026
Report Number : 3583784-2

Sample Number	2646767-1
Sampled Date	Jun 02, 2026 10:20 AM
Sample Description	Influent
Location	WHA EIE : Pumping Station
Date Analysis Commenced	Jun 04, 2026
Condition of Sample	Contained in three amber glass bottles and ten 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
Pesticides - Organochlorine Group							
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
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
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

Technical Management Suwimon C.
Suwimon Chairuangwut
Scientist (3)
ทะเบียนเลขที่ ว-204-จ-0018

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

Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
18, Pakornsongkrohraj Road, Tambol Huaypong, Amphur Muang, Rayong Thailand 21150
P/O :
Project Name :
Project Location: WHA EIE

Lot ID: 2646767
Date Received : Jun 02, 2026
Date Reported : Jun 10, 2026
Report Number : 3583784-2

Sample Number	2646767-1
Sampled Date	Jun 02, 2026 10:20 AM
Sample Description	Influent
Location	WHA EIE : Pumping Station
Date Analysis Commenced	Jun 04, 2026
Condition of Sample	Contained in three amber glass bottles and ten 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
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
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

Technical Management Suwimon C.
Suwimon Chairuangwut
Scientist (3)
ทะเบียนเลขที่ ว-204-จ-0018

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

LABORATORY ACCREDITATION
BLA-DSS

TESTING
No.0042

Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
18, Pakornsongkrohraj Road, Tambol Huaypong, Amphur Muang, Rayong Thailand 21150
P/O :
Project Name :
Project Location: WHA EIE

Lot ID: 2646767
Date Received : Jun 02, 2026
Date Reported : Jun 11, 2026
Report Number : 3583784-3

Sample Number	2646767-1
Sampled Date	Jun 02, 2026 10:20 AM
Sample Description	Influent
Location	WHA EIE : Pumping Station
Date Analysis Commenced	Jun 02, 2026
Condition of Sample	Contained in three amber glass bottles and ten 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	0.005	0.01	2.48	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3120 B, 3030 F	Rayong
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							
Anionic Surfactant as MBAS *	mg/L	0.015	0.05	0.49	≤30	Based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5540 B, C	Bangkok
Conductivity at 25 Degree C *	micromhos/cm	-	0.5	1987	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2510 B	Rayong

Approved by PhotchanaS
Photchana Seeda
Scientist (4)

Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
18, Pakornsongkrohraj Road, Tambol Huaypong, Amphur Muang, Rayong Thailand 21150
P/O :
Project Name :
Project Location: WHA EIE

Lot ID: 2646767
Date Received : Jun 02, 2026
Date Reported : Jun 10, 2026
Report Number : 3583784-2

Sample Number	2646767-1
Sampled Date	Jun 02, 2026 10:20 AM
Sample Description	Influent
Location	WHA EIE : Pumping Station
Date Analysis Commenced	Jun 04, 2026
Condition of Sample	Contained in three amber glass bottles and ten 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**
Pesticides - Organochlorine Group							
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
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							
Total Phosphorus as P	mg/L	0.2	0.5	1.6	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-P (B, E)	Bangkok

Guideline : Amendment details report of Environmental Health Impact Assessment Report of WHA Eastern Industrial Estate (Map Ta Put), 4th edition 2020, B.E. 2563
Sampling By : Surawit Narapong ทะเบียนเลขที่ ว-323-จ-0011 , Thanasoun Namakunna ทะเบียนเลขที่ ว-204-จ-0101

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

Technical Management Suwimon C.
Suwimon Chairuangwut
Scientist (3)
ทะเบียนเลขที่ ว-204-จ-0018

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

LABORATORY ACCREDITATION
BLA-DSS

TESTING
No.0042

Analysis / Test Report

Lot ID: 25116204
Date Received : Jan 08, 2026
Date Reported : Jan 15, 2026
Report Number : 3482111-1

Client : WHA Utilities and Power Public Company Limited
18, Pakornsongkrohraj Road, Tambol Huaypong, Amphur Muang, Rayong Thailand 21150
P/O :
Project Name :
Project Location: WHA EIE

Sample Number	25116204-1
Sampled Date	Jan 08, 2026 10:36 AM
Sample Description	Effluent
Location	WHA EIE : WWTP
Date Analysis Commenced	Jan 08, 2026
Condition of Sample	Contained in one amber glass bottle and nine 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**
Metals Testing							
Arsenic *	mg/L	0.002	0.005	Not Detected	≤0.25	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3120 B, 3030 F	Rayong
Barium *	mg/L	0.002	0.005	0.07	≤1.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3120 B, 3030 F	Rayong
Cadmium *	mg/L	0.001	0.002	Not Detected	≤0.03	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3120 B, 3030 F	Rayong
Chromium *	mg/L	0.001	0.002	<0.002	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3120 B, 3030 F	Rayong
Copper *	mg/L	0.005	0.01	Not Detected	≤2.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3120 B, 3030 F	Rayong
Hexavalent Chromium *	mg/L	0.003	0.01	<0.01	≤0.25	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3500-Cr B	Rayong
Lead *	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 3120 B, 3030 F	Rayong

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

Approved by
Dej Changchon
Senior Manager
ทะเบียนเลขที่ ว-323-ค-0001

LABORATORY ACCREDITATION
BLA-DSS

TESTING
No.0042

Analysis / Test Report

Lot ID: 2646767
Date Received : Jun 02, 2026
Date Reported : Jun 11, 2026
Report Number : 3583784-3

Client : WHA Utilities and Power Public Company Limited
18, Pakornsongkrohraj Road, Tambol Huaypong, Amphur Muang, Rayong Thailand 21150
P/O :
Project Name :
Project Location: WHA EIE

Guideline : Amendment details report of Environmental Health Impact Assessment Report of WHA Eastern Industrial Estate (Map Ta Put), 4th edition 2020, B.E. 2563
Sampling By : Surawit Narapong , Thanasoun Namakunna

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

Approved by PhotchanaS
Photchana Seeda
Scientist (4)

TESTING
No.0042

Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
18, Pakornsongkrohraj Road, Tambol Huaypong, Amphur Muang, Rayong Thailand 21150
P/O :
Project Name :
Project Location: WHA EIE

Lot ID: 25116204
Date Received : Jan 08, 2026
Date Reported : Jan 15, 2026
Report Number : 3482111-1

Sample Number	25116204-1
Sampled Date	Jan 08, 2026 10:36 AM
Sample Description	Effluent
Location	WHA EIE : WWTP
Date Analysis Commenced	Jan 08, 2026
Condition of Sample	Contained in one amber glass bottle and nine 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	1.5	25	<25	≤120	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Rayong
Cyanide as CN	mg/L	0.001	0.005	0.018	≤0.2	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-CN (C, E)	Rayong
Formaldehyde	mg/L	0.03	0.1	<0.1	≤1.0	Wastewater analysis manual, Environmental Engineering Association of Thailand, 4th ed.,2004	Rayong
Oil & Grease	mg/L	-	3	<3	≤5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Rayong
pH at 25 degree C		-	-	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)	Rayong
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 B, D	Rayong
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)	Rayong
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)	Rayong

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

Approved by
Dej Changchon
Senior Manager
ทะเบียนเลขที่ ว-323-ค-0001

TESTING
No.0042

Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
18, Pakornsongkrohraj Road, Tambol Huaypong, Amphur Muang, Rayong Thailand 21150
P/O :
Project Name :
Project Location: WHA EIE

Lot ID: 25116204
Date Received : Jan 08, 2026
Date Reported : Jan 15, 2026
Report Number : 3482111-1

Sample Number	25116204-1
Sampled Date	Jan 08, 2026 10:36 AM
Sample Description	Effluent
Location	WHA EIE : WWTP
Date Analysis Commenced	Jan 08, 2026
Condition of Sample	Contained in one amber glass bottle and nine 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**
Metals Testing							
Manganese *		0.001	0.002	0.18	≤5.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3120 B, 3030 F	Rayong
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 (B)	Rayong
Nickel *	mg/L	0.002	0.005	0.02	≤1.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3120 B, 3030 F	Rayong
Selenium *	mg/L	0.005	0.01	Not Detected	≤0.02	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3120 B, 3030 F	Rayong
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, Calculated	Rayong
Zinc *	mg/L	0.005	0.01	0.18	≤5.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3120 B, 3030 F	Rayong
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	<2.0	≤16	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Rayong

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

Approved by
Dej Changchon
Senior Manager
ทะเบียนเลขที่ ว-323-ค-0001

Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
18, Pakornsongkrohraj Road, Tambol Huaypong, Amphur Muang, Rayong Thailand 21150
P/O :
Project Name :
Project Location: WHA EIE

Lot ID: 25116204
Date Received : Jan 08, 2026
Date Reported : Jan 15, 2026
Report Number : 3482111-2

Sample Number	25116204-1
Sampled Date	Jan 08, 2026 10:36 AM
Sample Description	Effluent
Location	WHA EIE : WWTP
Date Analysis Commenced	Jan 12, 2026
Condition of Sample	Contained in one amber glass bottle and nine 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							
Total Phosphorus as P	mg/L	0.2	0.5	1.2	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 : Sansoen Khuiyoksui ทะเบียนเลขที่ ว-323-จ-0005

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

Technical Management

Siriluk P.

Siriluk Bunnak
Section Head
ทะเบียนเลขที่ ว-204-จ-0013

Approved by

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

TESTING
No.0042

Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
18, Pakornsongkrohraj Road, Tambol Huaypong, Amphur Muang, Rayong Thailand 21150
P/O :
Project Name :
Project Location: WHA EIE

Lot ID: 25116204
Date Received : Jan 08, 2026
Date Reported : Jan 15, 2026
Report Number : 3482111-1

Sample Number	25116204-1
Sampled Date	Jan 08, 2026 10:36 AM
Sample Description	Effluent
Location	WHA EIE : WWTP
Date Analysis Commenced	Jan 08, 2026
Condition of Sample	Contained in one amber glass bottle and nine 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							
Temperature *	Degree C	-	-	31.0	≤40	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	1590	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong
Total Kjeldahl Nitrogen as N	mg/L	-	1.0	1.5	≤100	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-Norg (C), part NH3 (D)	Rayong
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	Rayong

Guideline : Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017).
Note : BOD Guideline set by Amendment details report of Environmental Health Impact Assessment Report of WHA Eastern Industrial Estate (Map Ta Put), 4th edition 2020, B.E. 2563
Sampling By : Sansoen Khuiyoksui ทะเบียนเลขที่ ว-323-จ-0005

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

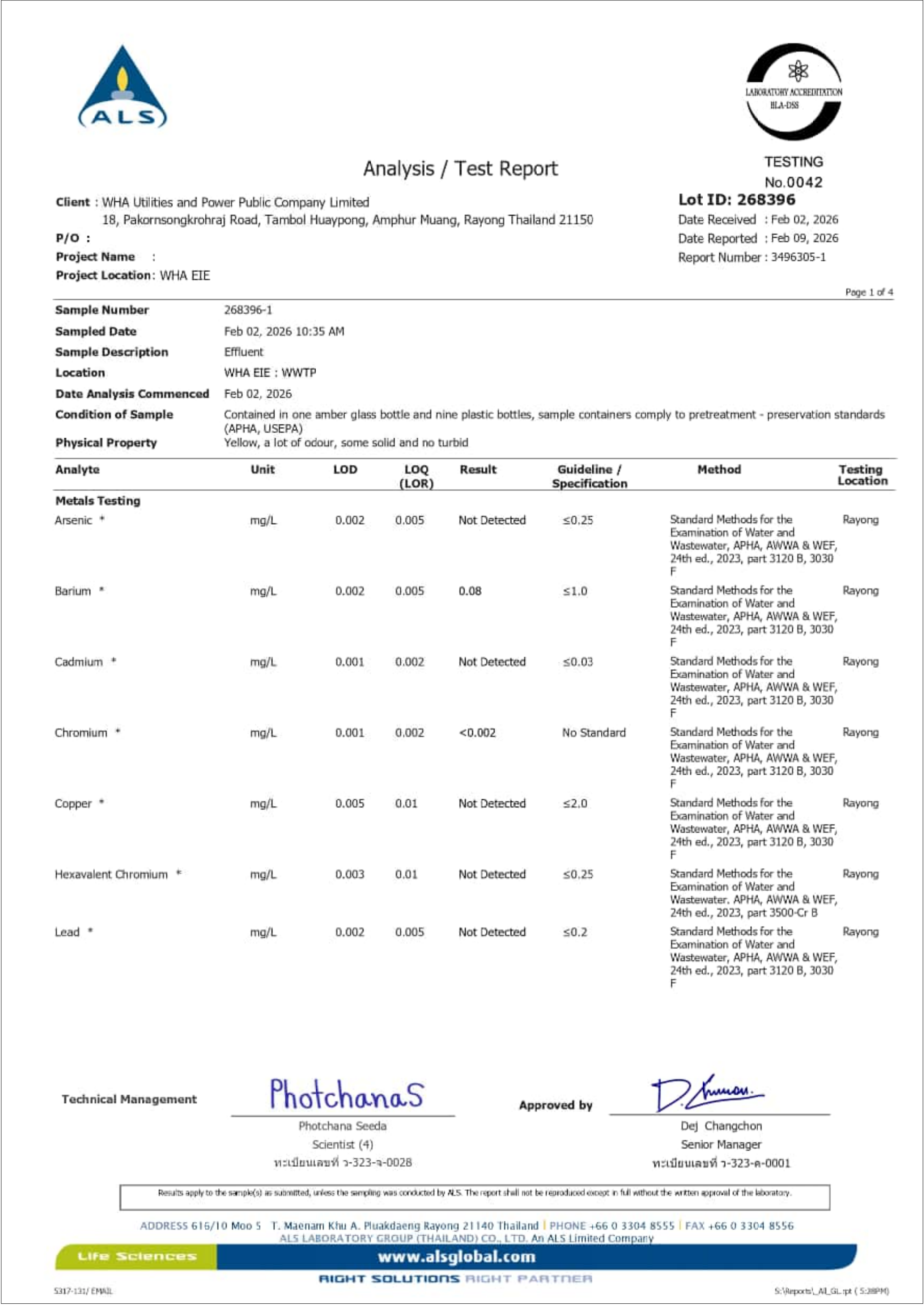
Technical Management

PhotchanaS

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

Approved by

Dej Changchon
Senior Manager
ทะเบียนเลขที่ ว-323-ค-0001



LABORATORY ACCREDITATION
BLA-DSS

TESTING
No.0042

Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
18, Pakornsongkrohraj Road, Tambol Huaypong, Amphur Muang, Rayong Thailand 21150
P/O :
Project Name :
Project Location: WHA EIE

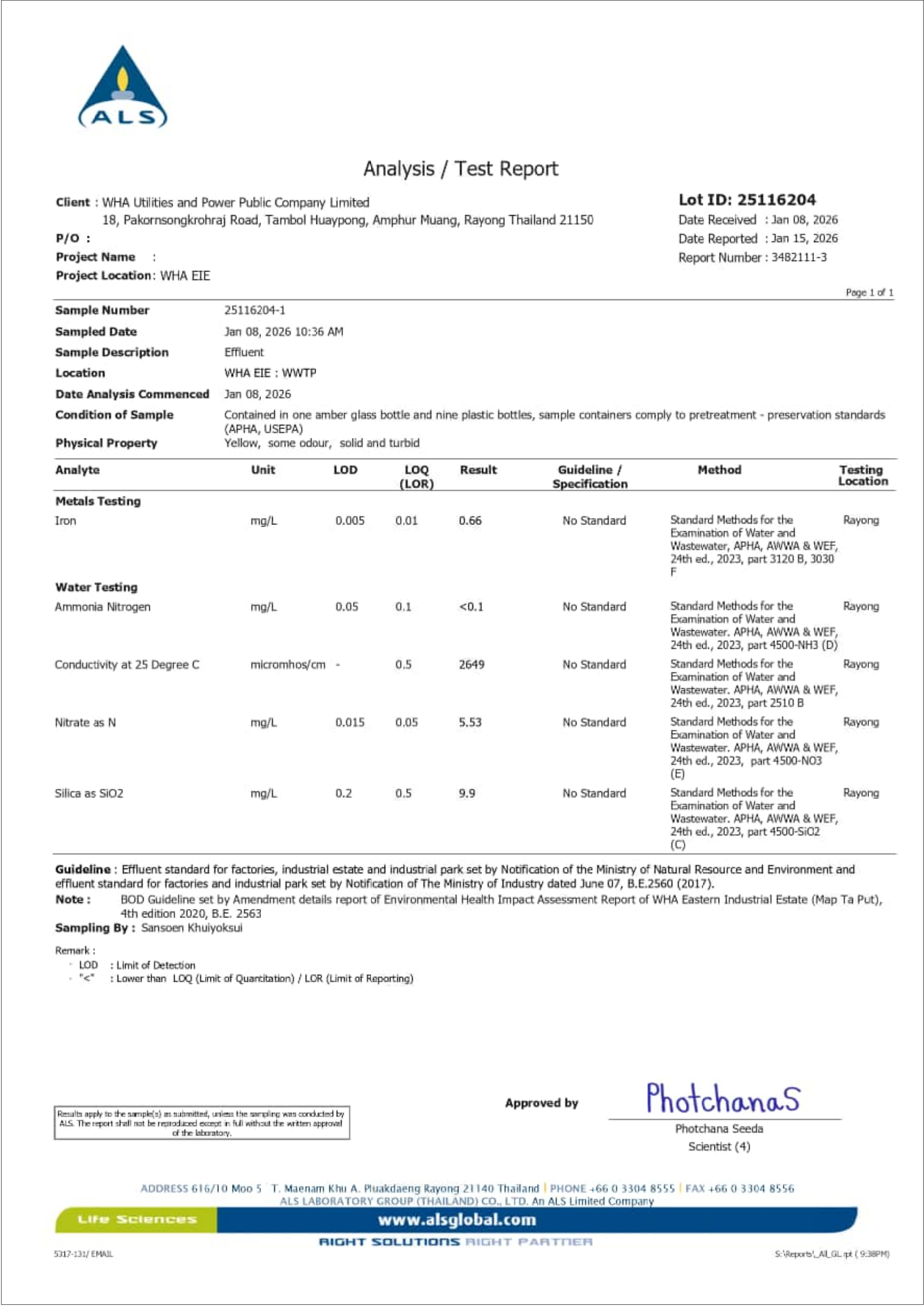
Lot ID: 268396
Date Received : Feb 02, 2026
Date Reported : Feb 09, 2026
Report Number : 3496305-1

Sample Number	268396-1
Sampled Date	Feb 02, 2026 10:35 AM
Sample Description	Effluent
Location	WHA EIE : WWTP
Date Analysis Commenced	Feb 02, 2026
Condition of Sample	Contained in one amber glass bottle and nine plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property	Yellow, a lot of odour, some solid and no turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Arsenic *	mg/L	0.002	0.005	Not Detected	≤0.25	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3120 B, 3030 F	Rayong
Barium *	mg/L	0.002	0.005	0.08	≤1.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3120 B, 3030 F	Rayong
Cadmium *	mg/L	0.001	0.002	Not Detected	≤0.03	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3120 B, 3030 F	Rayong
Chromium *	mg/L	0.001	0.002	<0.002	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3120 B, 3030 F	Rayong
Copper *	mg/L	0.005	0.01	Not Detected	≤2.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3120 B, 3030 F	Rayong
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	Rayong
Lead *	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 3120 B, 3030 F	Rayong

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

Approved by D. Changchon
Dej Changchon
Senior Manager
ทะเบียนเลขที่ ว-323-ค-0001



Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
18, Pakornsongkrohraj Road, Tambol Huaypong, Amphur Muang, Rayong Thailand 21150
P/O :
Project Name :
Project Location: WHA EIE

Lot ID: 25116204
Date Received : Jan 08, 2026
Date Reported : Jan 15, 2026
Report Number : 3482111-3

Sample Number	25116204-1
Sampled Date	Jan 08, 2026 10:36 AM
Sample Description	Effluent
Location	WHA EIE : WWTP
Date Analysis Commenced	Jan 08, 2026
Condition of Sample	Contained in one amber glass bottle and nine 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
Metals Testing							
Iron	mg/L	0.005	0.01	0.66	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3120 B, 3030 F	Rayong
Water Testing							
Ammonia Nitrogen	mg/L	0.05	0.1	<0.1	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-NH3 (D)	Rayong
Conductivity at 25 Degree C	micromhos/cm	-	0.5	2649	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2510 B	Rayong
Nitrate as N	mg/L	0.015	0.05	5.53	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-NO3 (E)	Rayong
Silica as SiO2	mg/L	0.2	0.5	9.9	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-SiO2 (C)	Rayong

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

Note : BOD Guideline set by Amendment details report of Environmental Health Impact Assessment Report of WHA Eastern Industrial Estate (Map Ta Put), 4th edition 2020, B.E. 2563

Sampling By : Sansoen Khuiyoksui

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

Approved by PhotchanaS
Photchana Seeda
Scientist (4)

TESTING
No.0042

Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
18, Pakornsongkrohraj Road, Tambol Huaypong, Amphur Muang, Rayong Thailand 21150
P/O :
Project Name :
Project Location: WHA EIE

Lot ID: 268396
Date Received : Feb 02, 2026
Date Reported : Feb 09, 2026
Report Number : 3496305-1

Sample Number	268396-1
Sampled Date	Feb 02, 2026 10:35 AM
Sample Description	Effluent
Location	WHA EIE : WWTP
Date Analysis Commenced	Feb 02, 2026
Condition of Sample	Contained in one amber glass bottle and nine plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property	Yellow, a lot of odour, some solid and no turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
COD	mg/L	1.5	25	<25	≤120	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Rayong
Cyanide as CN	mg/L	0.001	0.005	0.008	≤0.2	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-CN (C, E)	Rayong
Formaldehyde	mg/L	0.03	0.1	<0.1	≤1.0	Wastewater analysis manual, Environmental Engineering Association of Thailand, 4th ed.,2004	Rayong
Oil & Grease	mg/L	-	3	<3	≤5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Rayong
pH at 25 degree C		-	-	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)	Rayong
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 B, D	Rayong
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)	Rayong
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)	Rayong

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

Approved by
Dej Changchon
Senior Manager
ทะเบียนเลขที่ ว-323-ค-0001

TESTING
No.0042

Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
18, Pakornsongkrohraj Road, Tambol Huaypong, Amphur Muang, Rayong Thailand 21150
P/O :
Project Name :
Project Location: WHA EIE

Lot ID: 268396
Date Received : Feb 02, 2026
Date Reported : Feb 09, 2026
Report Number : 3496305-1

Sample Number	268396-1
Sampled Date	Feb 02, 2026 10:35 AM
Sample Description	Effluent
Location	WHA EIE : WWTP
Date Analysis Commenced	Feb 02, 2026
Condition of Sample	Contained in one amber glass bottle and nine plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property	Yellow, a lot of odour, some solid and no turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Manganese *	mg/L	0.001	0.002	0.20	≤5.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3120 B, 3030 F	Rayong
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 (B)	Rayong
Nickel *	mg/L	0.002	0.005	0.02	≤1.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3120 B, 3030 F	Rayong
Selenium *	mg/L	0.005	0.01	Not Detected	≤0.02	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3120 B, 3030 F	Rayong
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, Calculated	Rayong
Zinc *	mg/L	0.005	0.01	0.14	≤5.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3120 B, 3030 F	Rayong
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	<2.0	≤16	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Rayong

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

Approved by
Dej Changchon
Senior Manager
ทะเบียนเลขที่ ว-323-ค-0001

Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
18, Pakornsongkrohraj Road, Tambol Huaypong, Amphur Muang, Rayong Thailand 21150
P/O :
Project Name :
Project Location: WHA EIE

Lot ID: 268396
Date Received : Feb 02, 2026
Date Reported : Feb 09, 2026
Report Number : 3496305-2

Sample Number	268396-1
Sampled Date	Feb 02, 2026 10:35 AM
Sample Description	Effluent
Location	WHA EIE : WWTP
Date Analysis Commenced	Feb 04, 2026
Condition of Sample	Contained in one amber glass bottle and nine plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property	Yellow, a lot of odour, some solid and no turbid

Analyte	**Unit**	**LOD**	**LOQ (LOR)**	**Result**	**Guideline / Specification**	**Method**	**Testing Location**
Water Testing							
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

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 : Suphanat Sakulkittimasak ทะเบียนเลขที่ ว-323-จ-0021 , Kardbundit Kitisupavanit ทะเบียนเลขที่ ว-204-จ-0001

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

Technical Management
Suwimon C.
Suwimon Chairuangwut
Scientist (3)
ทะเบียนเลขที่ ว-204-จ-0018

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

LABORATORY ACCREDITATION
BLA-DSS
TESTING
No.0042

Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
18, Pakornsongkrohraj Road, Tambol Huaypong, Amphur Muang, Rayong Thailand 21150
P/O :
Project Name :
Project Location: WHA EIE

Lot ID: 268396
Date Received : Feb 02, 2026
Date Reported : Feb 09, 2026
Report Number : 3496305-1

Sample Number	268396-1
Sampled Date	Feb 02, 2026 10:35 AM
Sample Description	Effluent
Location	WHA EIE : WWTP
Date Analysis Commenced	Feb 02, 2026
Condition of Sample	Contained in one amber glass bottle and nine plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property	Yellow, a lot of odour, some solid and no turbid

Analyte	**Unit**	**LOD**	**LOQ (LOR)**	**Result**	**Guideline / Specification**	**Method**	**Testing Location**
Water Testing							
Temperature *	Degree C	-	-	33.9	≤40	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	1500	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong
Total Kjeldahl Nitrogen as N	mg/L	-	1.0	1.9	≤100	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-Norg (C), part NH3 (D)	Rayong
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	Rayong

Guideline : Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017).
Note : BOD Guideline set by Amendment details report of Environmental Health Impact Assessment Report of WHA Eastern Industrial Estate (Map Ta Put), 4th edition 2020, B.E. 2563
Sampling By : Suphanat Sakulkittimasak ทะเบียนเลขที่ ว-323-จ-0021 , Kardbundit Kitisupavanit ทะเบียนเลขที่ ว-204-จ-0001

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

Approved by
Dej Changchon
Senior Manager
ทะเบียนเลขที่ ว-323-ค-0001

TESTING
No.0042

Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
18, Pakornsongkrohraj Road, Tambol Huaypong, Amphur Muang, Rayong Thailand 21150
P/O :
Project Name :
Project Location: WHA EIE

Lot ID: 2616405
Date Received : Mar 05, 2026
Date Reported : Mar 11, 2026
Report Number : 3512738-1

Sample Number	2616405-1
Sampled Date	Mar 05, 2026 10:28 AM
Sample Description	Effluent
Location	WHA EIE : WWTP
Date Analysis Commenced	Mar 05, 2026
Condition of Sample	Contained in one amber glass bottle and nine 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							
Arsenic *	mg/L	0.002	0.005	Not Detected	≤0.25	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3120 B, 3030 F	Rayong
Barium *	mg/L	0.002	0.005	0.07	≤1.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3120 B, 3030 F	Rayong
Cadmium *	mg/L	0.001	0.002	Not Detected	≤0.03	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3120 B, 3030 F	Rayong
Chromium *	mg/L	0.001	0.002	Not Detected	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3120 B, 3030 F	Rayong
Copper *	mg/L	0.005	0.01	Not Detected	≤2.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3120 B, 3030 F	Rayong
Hexavalent Chromium *	mg/L	0.003	0.01	<0.01	≤0.25	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3500-Cr B	Rayong
Lead *	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 3120 B, 3030 F	Rayong

Technical Management
Jitsupa P.
Jitsupa Pratuangsuk
Scientist (2)
ทะเบียนเลขที่ ว-323-จ-0004

Approved by
Dej Changchon
Senior Manager
ทะเบียนเลขที่ ว-323-ค-0001

Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
18, Pakornsongkrohraj Road, Tambol Huaypong, Amphur Muang, Rayong Thailand 21150
P/O :
Project Name :
Project Location: WHA EIE

Lot ID: 268396
Date Received : Feb 02, 2026
Date Reported : Feb 09, 2026
Report Number : 3496305-3

Sample Number	268396-1
Sampled Date	Feb 02, 2026 10:35 AM
Sample Description	Effluent
Location	WHA EIE : WWTP
Date Analysis Commenced	Feb 02, 2026
Condition of Sample	Contained in one amber glass bottle and nine plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property	Yellow, a lot of odour, some solid and no turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Iron	mg/L	0.005	0.01	0.45	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3120 B, 3030 F	Rayong
Water Testing							
Ammonia Nitrogen	mg/L	0.05	0.1	Not Detected	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-NH3 (D)	Rayong
Conductivity at 25 Degree C	micromhos/cm	-	0.5	3352	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2510 B	Rayong
Nitrate as N	mg/L	0.015	0.05	3.36	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-NO3 (E)	Rayong
Silica as SiO2	mg/L	0.2	0.5	14.8	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-SiO2 (C)	Rayong

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

Note : BOD Guideline set by Amendment details report of Environmental Health Impact Assessment Report of WHA Eastern Industrial Estate (Map Ta Put), 4th edition 2020, B.E. 2563

Sampling By : Suphanat Sakulkittimasak , Kardbundit Kitisupavanit

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

Approved by
PhotchanaS
Photchana Seeda
Scientist (4)

LABORATORY ACCREDITATION
BLA-DSS
TESTING
No.0042

Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
18, Pakornsongkrohraj Road, Tambol Huaypong, Amphur Muang, Rayong Thailand 21150
P/O :
Project Name :
Project Location: WHA EIE

Lot ID: 2616405
Date Received : Mar 05, 2026
Date Reported : Mar 11, 2026
Report Number : 3512738-1

Sample Number	2616405-1
Sampled Date	Mar 05, 2026 10:28 AM
Sample Description	Effluent
Location	WHA EIE : WWTP
Date Analysis Commenced	Mar 05, 2026
Condition of Sample	Contained in one amber glass bottle and nine 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	1.5	25	<25	≤120	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Rayong
Cyanide as CN	mg/L	0.001	0.005	0.008	≤0.2	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-CN (C, E)	Rayong
Formaldehyde	mg/L	0.03	0.1	<0.1	≤1.0	Wastewater analysis manual, Environmental Engineering Association of Thailand, 4th ed.,2004	Rayong
Oil & Grease	mg/L	-	3	<3	≤5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Rayong
pH at 25 degree C		-	-	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)	Rayong
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 B, D	Rayong
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)	Rayong
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)	Rayong

Technical Management Jitsupa P.
Jitsupa Pratuangsuk
Scientist (2)
ทะเบียนเลขที่ ว-323-จ-0004

Approved by
Dej Changchon
Senior Manager
ทะเบียนเลขที่ ว-323-ค-0001

LABORATORY ACCREDITATION
BLA-DSS
TESTING
No.0042

Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
18, Pakornsongkrohraj Road, Tambol Huaypong, Amphur Muang, Rayong Thailand 21150
P/O :
Project Name :
Project Location: WHA EIE

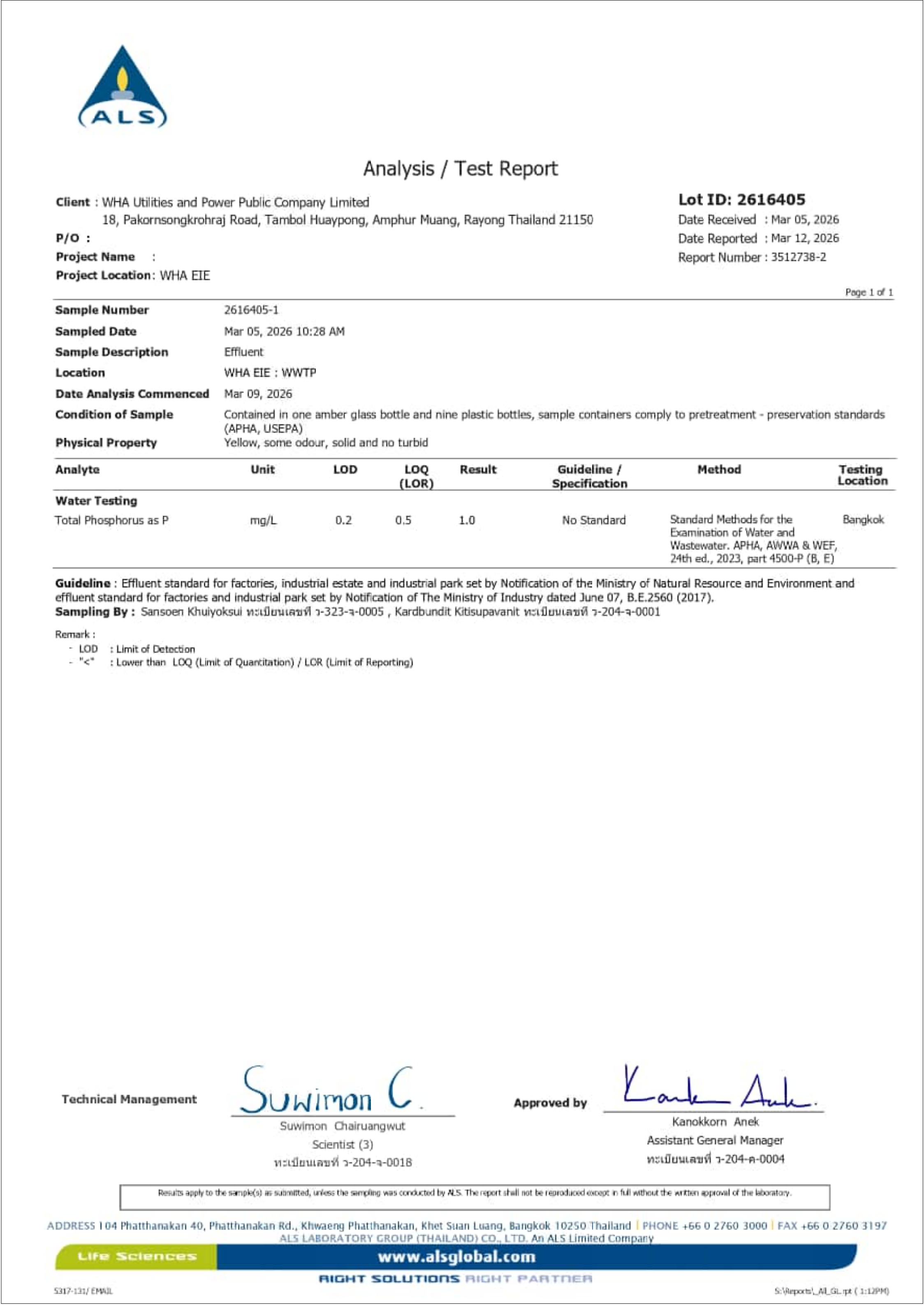
Lot ID: 2616405
Date Received : Mar 05, 2026
Date Reported : Mar 11, 2026
Report Number : 3512738-1

Sample Number	2616405-1
Sampled Date	Mar 05, 2026 10:28 AM
Sample Description	Effluent
Location	WHA EIE : WWTP
Date Analysis Commenced	Mar 05, 2026
Condition of Sample	Contained in one amber glass bottle and nine 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							
Manganese *	mg/L	0.001	0.002	0.29	≤5.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3120 B, 3030 F	Rayong
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 (B)	Rayong
Nickel *	mg/L	0.002	0.005	0.02	≤1.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3120 B, 3030 F	Rayong
Selenium *	mg/L	0.005	0.01	Not Detected	≤0.02	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3120 B, 3030 F	Rayong
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, Calculated	Rayong
Zinc *	mg/L	0.005	0.01	0.13	≤5.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3120 B, 3030 F	Rayong
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	<2.0	≤16	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Rayong

Technical Management Jitsupa P.
Jitsupa Pratuangsuk
Scientist (2)
ทะเบียนเลขที่ ว-323-จ-0004

Approved by
Dej Changchon
Senior Manager
ทะเบียนเลขที่ ว-323-ค-0001



Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
18, Pakornsongkrohraj Road, Tambol Huaypong, Amphur Muang, Rayong Thailand 21150
P/O :
Project Name :
Project Location: WHA EIE

Lot ID: 2616405
Date Received : Mar 05, 2026
Date Reported : Mar 12, 2026
Report Number : 3512738-2

Sample Number	2616405-1
Sampled Date	Mar 05, 2026 10:28 AM
Sample Description	Effluent
Location	WHA EIE : WWTP
Date Analysis Commenced	Mar 09, 2026
Condition of Sample	Contained in one amber glass bottle and nine plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property	Yellow, some odour, solid and no turbid

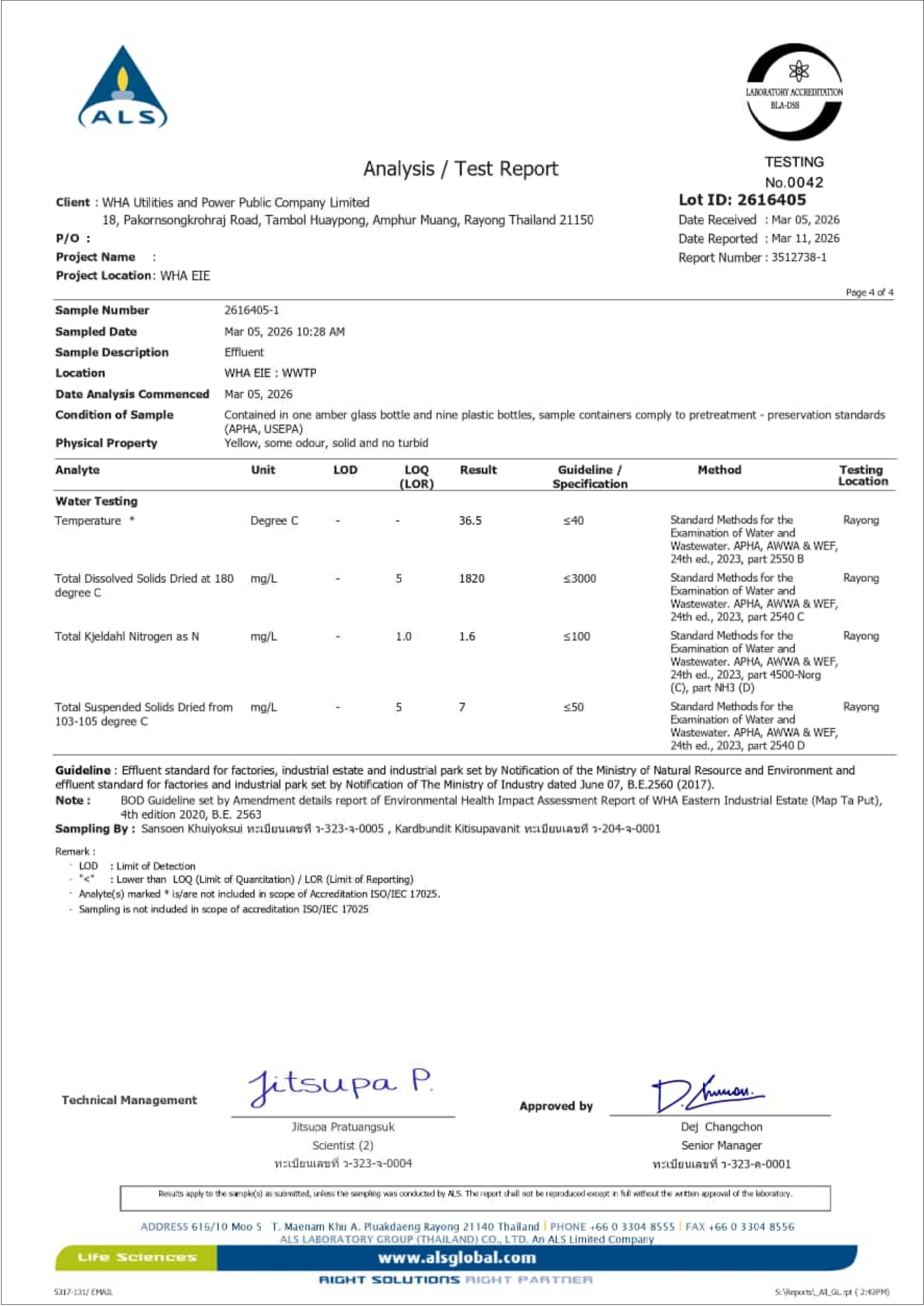
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Total Phosphorus as P	mg/L	0.2	0.5	1.0	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-P (B, E)	Bangkok

Guideline : Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017).
Sampling By : Sansoen Khuiyoksui ทะเบียนเลขที่ ว-323-จ-0005 , Kardbundit Kitisupavanit ทะเบียนเลขที่ ว-204-จ-0001

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

Technical Management Suwimon C.
Suwimon Chairuangwut
Scientist (3)
ทะเบียนเลขที่ ว-204-จ-0018

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



Analysis / Test Report

LABORATORY ACCREDITATION
BLA-DSS
TESTING
No.0042

Client : WHA Utilities and Power Public Company Limited
18, Pakornsongkrohraj Road, Tambol Huaypong, Amphur Muang, Rayong Thailand 21150
P/O :
Project Name :
Project Location: WHA EIE

Lot ID: 2616405
Date Received : Mar 05, 2026
Date Reported : Mar 11, 2026
Report Number : 3512738-1

Sample Number	2616405-1
Sampled Date	Mar 05, 2026 10:28 AM
Sample Description	Effluent
Location	WHA EIE : WWTP
Date Analysis Commenced	Mar 05, 2026
Condition of Sample	Contained in one amber glass bottle and nine plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property	Yellow, some odour, solid and no turbid

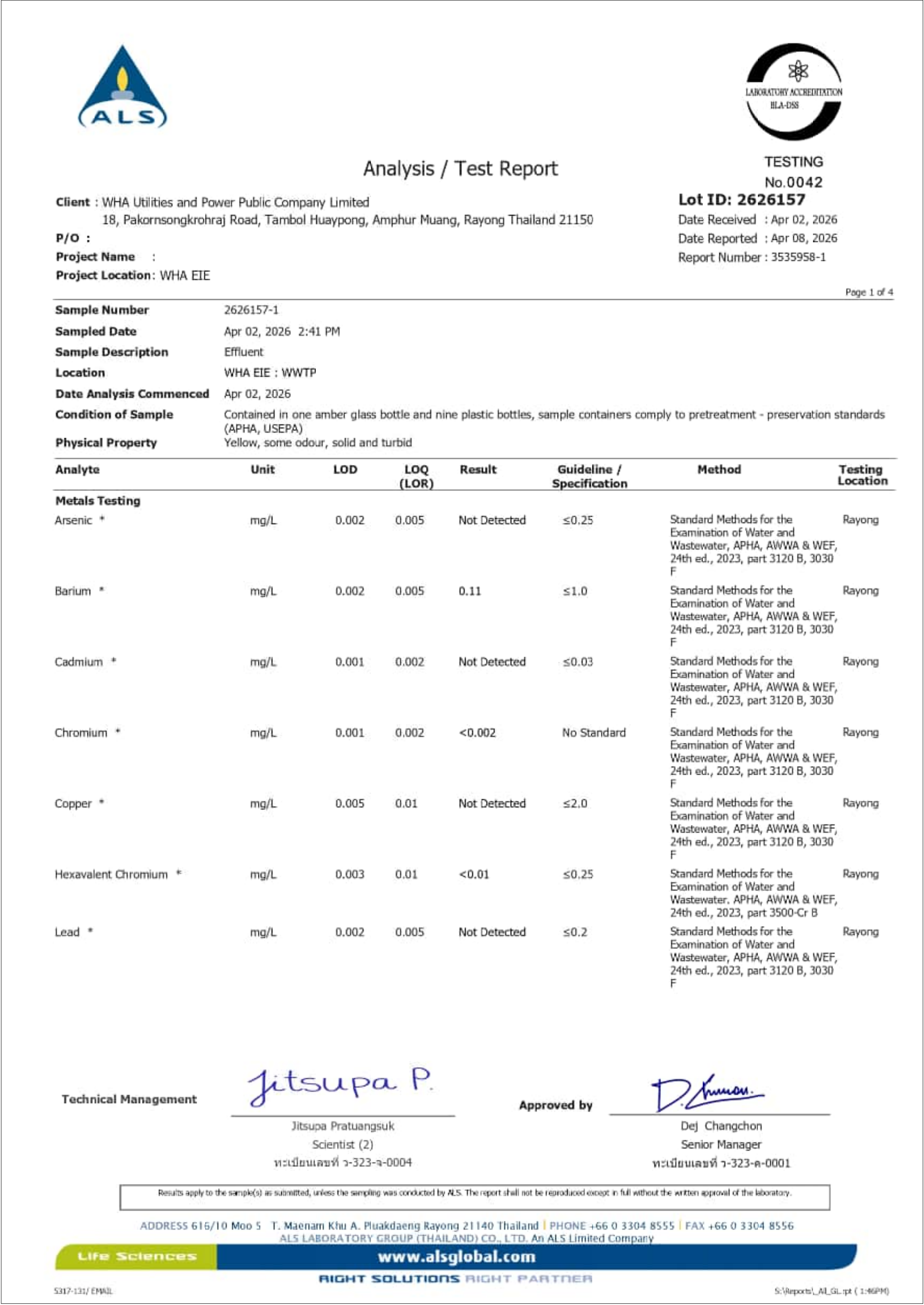
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Temperature *	Degree C	-	-	36.5	≤40	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	1820	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong
Total Kjeldahl Nitrogen as N	mg/L	-	1.0	1.6	≤100	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-Norg (C), part NH3 (D)	Rayong
Total Suspended Solids Dried from 103-105 degree C	mg/L	-	5	7	≤50	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Rayong

Guideline : Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017).
Note : BOD Guideline set by Amendment details report of Environmental Health Impact Assessment Report of WHA Eastern Industrial Estate (Map Ta Put), 4th edition 2020, B.E. 2563
Sampling By : Sansoen Khuiyoksui ทะเบียนเลขที่ ว-323-จ-0005 , Kardbundit Kitisupavanit ทะเบียนเลขที่ ว-204-จ-0001

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 Jitsupa P.
Jitsupa Pratuangsuk
Scientist (2)
ทะเบียนเลขที่ ว-323-จ-0004

Approved by
Dej Changchon
Senior Manager
ทะเบียนเลขที่ ว-323-ค-0001



TESTING
No.0042

Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
18, Pakornsongkrohraj Road, Tambol Huaypong, Amphur Muang, Rayong Thailand 21150
P/O :
Project Name :
Project Location: WHA EIE

Lot ID: 2626157
Date Received : Apr 02, 2026
Date Reported : Apr 08, 2026
Report Number : 3535958-1

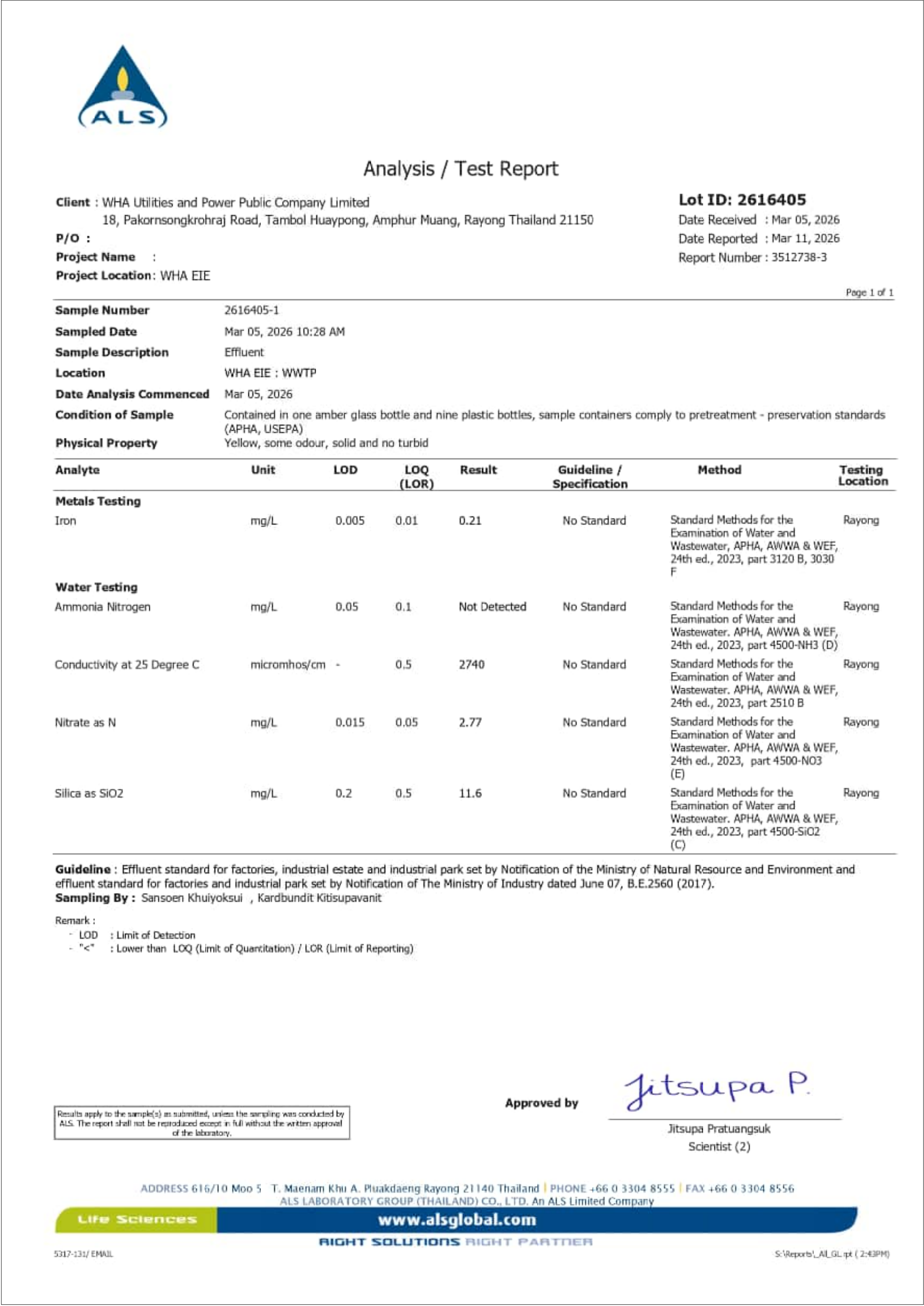
Page 1 of 4

Sample Number	2626157-1
Sampled Date	Apr 02, 2026 2:41 PM
Sample Description	Effluent
Location	WHA EIE : WWTP
Date Analysis Commenced	Apr 02, 2026
Condition of Sample	Contained in one amber glass bottle and nine 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
Metals Testing							
Arsenic *	mg/L	0.002	0.005	Not Detected	≤0.25	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3120 B, 3030 F	Rayong
Barium *	mg/L	0.002	0.005	0.11	≤1.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3120 B, 3030 F	Rayong
Cadmium *	mg/L	0.001	0.002	Not Detected	≤0.03	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3120 B, 3030 F	Rayong
Chromium *	mg/L	0.001	0.002	<0.002	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3120 B, 3030 F	Rayong
Copper *	mg/L	0.005	0.01	Not Detected	≤2.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3120 B, 3030 F	Rayong
Hexavalent Chromium *	mg/L	0.003	0.01	<0.01	≤0.25	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3500-Cr B	Rayong
Lead *	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 3120 B, 3030 F	Rayong

Technical Management
Jitsupa P.
Jitsupa Pratuangsuk
Scientist (2)
ทะเบียนเลขที่ ว-323-จ-0004

Approved by
Dej Changchon
Senior Manager
ทะเบียนเลขที่ ว-323-ค-0001



Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
18, Pakornsongkrohraj Road, Tambol Huaypong, Amphur Muang, Rayong Thailand 21150
P/O :
Project Name :
Project Location: WHA EIE

Lot ID: 2616405
Date Received : Mar 05, 2026
Date Reported : Mar 11, 2026
Report Number : 3512738-3

Page 1 of 1

Sample Number	2616405-1
Sampled Date	Mar 05, 2026 10:28 AM
Sample Description	Effluent
Location	WHA EIE : WWTP
Date Analysis Commenced	Mar 05, 2026
Condition of Sample	Contained in one amber glass bottle and nine 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	0.005	0.01	0.21	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3120 B, 3030 F	Rayong
Water Testing							
Ammonia Nitrogen	mg/L	0.05	0.1	Not Detected	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-NH3 (D)	Rayong
Conductivity at 25 Degree C	micromhos/cm	-	0.5	2740	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2510 B	Rayong
Nitrate as N	mg/L	0.015	0.05	2.77	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-NO3 (E)	Rayong
Silica as SiO2	mg/L	0.2	0.5	11.6	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-SiO2 (C)	Rayong

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

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

Approved by
Jitsupa P.
Jitsupa Pratuangsuk
Scientist (2)

Analysis / Test Report

TESTING
No.0042

Client : WHA Utilities and Power Public Company Limited
18, Pakornsongkrohraj Road, Tambol Huaypong, Amphur Muang, Rayong Thailand 21150
P/O :
Project Name :
Project Location: WHA EIE

Lot ID: 2626157
Date Received : Apr 02, 2026
Date Reported : Apr 08, 2026
Report Number : 3535958-1

Sample Number	2626157-1
Sampled Date	Apr 02, 2026 2:41 PM
Sample Description	Effluent
Location	WHA EIE : WWTP
Date Analysis Commenced	Apr 02, 2026
Condition of Sample	Contained in one amber glass bottle and nine 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	1.5	25	<25	≤120	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Rayong
Cyanide as CN	mg/L	0.001	0.005	0.009	≤0.2	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-CN (C, E)	Rayong
Formaldehyde	mg/L	0.03	0.1	<0.1	≤1.0	Wastewater analysis manual, Environmental Engineering Association of Thailand, 4th ed.,2004	Rayong
Oil & Grease	mg/L	-	3	<3	≤5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Rayong
pH at 25 degree C		-	-	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)	Rayong
Phenol	mg/L	0.005	0.01	0.02	≤1.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5530 B, D	Rayong
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)	Rayong
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)	Rayong

Technical Management Jitsupa P.
Jitsupa Pratuangsuk
Scientist (2)
ทะเบียนเลขที่ ว-323-จ-0004

Approved by
Dej Changchon
Senior Manager
ทะเบียนเลขที่ ว-323-ค-0001

Analysis / Test Report

TESTING
No.0042

Client : WHA Utilities and Power Public Company Limited
18, Pakornsongkrohraj Road, Tambol Huaypong, Amphur Muang, Rayong Thailand 21150
P/O :
Project Name :
Project Location: WHA EIE

Lot ID: 2626157
Date Received : Apr 02, 2026
Date Reported : Apr 08, 2026
Report Number : 3535958-1

Sample Number	2626157-1
Sampled Date	Apr 02, 2026 2:41 PM
Sample Description	Effluent
Location	WHA EIE : WWTP
Date Analysis Commenced	Apr 02, 2026
Condition of Sample	Contained in one amber glass bottle and nine 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**
Metals Testing							
Manganese *	mg/L	0.001	0.002	0.46	≤5.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3120 B, 3030 F	Rayong
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 (B)	Rayong
Nickel *	mg/L	0.002	0.005	0.02	≤1.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3120 B, 3030 F	Rayong
Selenium *	mg/L	0.005	0.01	Not Detected	≤0.02	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3120 B, 3030 F	Rayong
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, Calculated	Rayong
Zinc *	mg/L	0.005	0.01	0.25	≤5.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3120 B, 3030 F	Rayong
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	<2.0	≤16	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Rayong

Technical Management Jitsupa P.
Jitsupa Pratuangsuk
Scientist (2)
ทะเบียนเลขที่ ว-323-จ-0004

Approved by
Dej Changchon
Senior Manager
ทะเบียนเลขที่ ว-323-ค-0001

Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
18, Pakornsongkrohraj Road, Tambol Huaypong, Amphur Muang, Rayong Thailand 21150
P/O :
Project Name :
Project Location: WHA EIE

Lot ID: 2626157
Date Received : Apr 02, 2026
Date Reported : Apr 09, 2026
Report Number : 3535958-2

Sample Number	2626157-1
Sampled Date	Apr 02, 2026 2:41 PM
Sample Description	Effluent
Location	WHA EIE : WWTP
Date Analysis Commenced	Apr 04, 2026
Condition of Sample	Contained in one amber glass bottle and nine 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							
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

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 : Phongthep Sitthiloh ทะเบียนเลขที่ ว-323-จ-0023 , Pattarapol Sawangjaitam ทะเบียนเลขที่ ว-204-จ-0002

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

Technical Management Suwimon C.
Suwimon Chairuangwut
Scientist (3)
ทะเบียนเลขที่ ว-204-จ-0018

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

LABORATORY ACCREDITATION
BLA-DSS
TESTING
No.0042

Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
18, Pakornsongkrohraj Road, Tambol Huaypong, Amphur Muang, Rayong Thailand 21150
P/O :
Project Name :
Project Location: WHA EIE

Lot ID: 2626157
Date Received : Apr 02, 2026
Date Reported : Apr 08, 2026
Report Number : 3535958-1

Sample Number	2626157-1
Sampled Date	Apr 02, 2026 2:41 PM
Sample Description	Effluent
Location	WHA EIE : WWTP
Date Analysis Commenced	Apr 02, 2026
Condition of Sample	Contained in one amber glass bottle and nine 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							
Temperature *	Degree C	-	-	36.4	≤40	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	1780	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong
Total Kjeldahl Nitrogen as N	mg/L	-	1.0	1.9	≤100	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-Norg (C), part NH3 (D)	Rayong
Total Suspended Solids Dried from 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	Rayong

Guideline : Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017).
Note : BOD Guideline set by Amendment details report of Environmental Health Impact Assessment Report of WHA Eastern Industrial Estate (Map Ta Put), 4th edition 2020, B.E. 2563
Sampling By : Phongthep Sitthiloh ทะเบียนเลขที่ ว-323-จ-0023 , Pattarapol Sawangjaitam ทะเบียนเลขที่ ว-204-จ-0002

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

Technical Management Jitsupa P.
Jitsupa Pratuangsuk
Scientist (2)
ทะเบียนเลขที่ ว-323-จ-0004

Approved by
Dej Changchon
Senior Manager
ทะเบียนเลขที่ ว-323-ค-0001

LABORATORY ACCREDITATION
BLA-DSS

TESTING
No.0042

Analysis / Test Report

Lot ID: 2635581
Date Received : May 05, 2026
Date Reported : May 12, 2026
Report Number : 3558697-1

Client : WHA Utilities and Power Public Company Limited
18, Pakornsongkrohraj Road, Tambol Huaypong, Amphur Muang, Rayong Thailand 21150
P/O :
Project Name :
Project Location: WHA EIE

Sample Number	2635581-1
Sampled Date	May 05, 2026 9:57 AM
Sample Description	Effluent
Location	WHA EIE : WWTP
Date Analysis Commenced	May 05, 2026
Condition of Sample	Contained in one amber glass bottle and nine 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
Metals Testing							
Arsenic *	mg/L	0.002	0.005	Not Detected	≤0.25	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3120 B, 3030 F	Rayong
Barium *	mg/L	0.002	0.005	0.07	≤1.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3120 B, 3030 F	Rayong
Cadmium *	mg/L	0.001	0.002	Not Detected	≤0.03	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3120 B, 3030 F	Rayong
Chromium *	mg/L	0.001	0.002	<0.002	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3120 B, 3030 F	Rayong
Copper *	mg/L	0.005	0.01	Not Detected	≤2.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3120 B, 3030 F	Rayong
Hexavalent Chromium *	mg/L	0.003	0.01	<0.01	≤0.25	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3500-Cr B	Rayong
Lead *	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 3120 B, 3030 F	Rayong

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

Approved by
Dej Changchon
Senior Manager
ทะเบียนเลขที่ ว-323-ค-0001

Analysis / Test Report

Lot ID: 2626157
Date Received : Apr 02, 2026
Date Reported : Apr 08, 2026
Report Number : 3535958-3

Client : WHA Utilities and Power Public Company Limited
18, Pakornsongkrohraj Road, Tambol Huaypong, Amphur Muang, Rayong Thailand 21150
P/O :
Project Name :
Project Location: WHA EIE

Sample Number	2626157-1
Sampled Date	Apr 02, 2026 2:41 PM
Sample Description	Effluent
Location	WHA EIE : WWTP
Date Analysis Commenced	Apr 03, 2026
Condition of Sample	Contained in one amber glass bottle and nine 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
Metals Testing							
Iron	mg/L	0.005	0.01	0.28	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3120 B, 3030 F	Rayong
Water Testing							
Ammonia Nitrogen	mg/L	0.05	0.1	<0.1	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-NH3 (D)	Rayong
Conductivity at 25 Degree C	micromhos/cm	-	0.5	3755	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2510 B	Rayong
Nitrate as N	mg/L	0.015	0.05	4.60	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-NO3 (E)	Rayong
Silica as SiO2	mg/L	0.2	0.5	11.4	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-SiO2 (C)	Rayong

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

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

Approved by Jitsupa P.
Jitsupa Pratuangsuk
Scientist (2)

TESTING
No.0042

Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
18, Pakornsongkrohraj Road, Tambol Huaypong, Amphur Muang, Rayong Thailand 21150
P/O :
Project Name :
Project Location: WHA EIE

Lot ID: 2635581
Date Received : May 05, 2026
Date Reported : May 12, 2026
Report Number : 3558697-1

Sample Number	2635581-1
Sampled Date	May 05, 2026 9:57 AM
Sample Description	Effluent
Location	WHA EIE : WWTP
Date Analysis Commenced	May 05, 2026
Condition of Sample	Contained in one amber glass bottle and nine 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	1.5	25	<25	≤120	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Rayong
Color (at Original pH)	ADMI	-	5	32	≤300	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2120 F	Rayong
Color (at pH 7.0)	ADMI	-	5	29	≤300	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2120 F	Rayong
Cyanide as CN	mg/L	0.001	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)	Rayong
Formaldehyde	mg/L	0.03	0.1	Not Detected	≤1.0	Wastewater analysis manual, Environmental Engineering Association of Thailand, 4th ed.,2004	Rayong
Oil & Grease	mg/L	-	3	<3	≤5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Rayong
pH at 25 degree C		-	-	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)	Rayong
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 B, D	Rayong
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)	Rayong

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

Approved by
Dej Changchon
Senior Manager
ทะเบียนเลขที่ ว-323-ค-0001

TESTING
No.0042

Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
18, Pakornsongkrohraj Road, Tambol Huaypong, Amphur Muang, Rayong Thailand 21150
P/O :
Project Name :
Project Location: WHA EIE

Lot ID: 2635581
Date Received : May 05, 2026
Date Reported : May 12, 2026
Report Number : 3558697-1

Sample Number	2635581-1
Sampled Date	May 05, 2026 9:57 AM
Sample Description	Effluent
Location	WHA EIE : WWTP
Date Analysis Commenced	May 05, 2026
Condition of Sample	Contained in one amber glass bottle and nine 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**
Metals Testing							
Manganese *	mg/L	0.001	0.002	0.35	≤5.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3120 B, 3030 F	Rayong
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 (B)	Rayong
Nickel *	mg/L	0.002	0.005	0.02	≤1.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3120 B, 3030 F	Rayong
Selenium *	mg/L	0.005	0.01	Not Detected	≤0.02	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3120 B, 3030 F	Rayong
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, Calculated	Rayong
Zinc *	mg/L	0.005	0.01	0.16	≤5.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3120 B, 3030 F	Rayong
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	<2.0	≤16	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Rayong

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

Approved by
Dej Changchon
Senior Manager
ทะเบียนเลขที่ ว-323-ค-0001

Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
18, Pakornsongkrohraj Road, Tambol Huaypong, Amphur Muang, Rayong Thailand 21150
P/O :
Project Name :
Project Location: WHA EIE

Lot ID: 2635581
Date Received : May 05, 2026
Date Reported : May 12, 2026
Report Number : 3558697-2

Sample Number	2635581-1
Sampled Date	May 05, 2026 9:57 AM
Sample Description	Effluent
Location	WHA EIE : WWTP
Date Analysis Commenced	May 07, 2026
Condition of Sample	Contained in one amber glass bottle and nine 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							
Total Phosphorus as P	mg/L	0.2	0.5	1.3	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).

Note : BOD Guideline set by Amendment details report of Environmental Health Impact Assessment Report of WHA Eastern Industrial Estate (Map Ta Put), 4th edition 2020, B.E. 2563

Sampling By : Warunyoo Chimphalee ทะเบียนเลขที่ ว-323-จ-0020 , Samart Khumphlee ทะเบียนเลขที่ ว-204-จ-0084

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

Technical Management

Nanthawadee Somboon
Specialist 2
ทะเบียนเลขที่ ว-204-จ-0010

Approved by

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

TESTING
No.0042

Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
18, Pakornsongkrohraj Road, Tambol Huaypong, Amphur Muang, Rayong Thailand 21150
P/O :
Project Name :
Project Location: WHA EIE

Lot ID: 2635581
Date Received : May 05, 2026
Date Reported : May 12, 2026
Report Number : 3558697-1

Sample Number	2635581-1
Sampled Date	May 05, 2026 9:57 AM
Sample Description	Effluent
Location	WHA EIE : WWTP
Date Analysis Commenced	May 05, 2026
Condition of Sample	Contained in one amber glass bottle and nine 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							
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)	Rayong
Temperature *	Degree C	-	-	34.9	≤40	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	1790	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong
Total Kjeldahl Nitrogen as N	mg/L	-	1.0	1.1	≤100	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-Norg (C), part NH3 (D)	Rayong
Total Suspended Solids Dried from 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	Rayong

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

Note : BOD Guideline set by Amendment details report of Environmental Health Impact Assessment Report of WHA Eastern Industrial Estate (Map Ta Put), 4th edition 2020, B.E. 2563

Sampling By : Warunyoo Chimphalee ทะเบียนเลขที่ ว-323-จ-0020 , Samart Khumphlee ทะเบียนเลขที่ ว-204-จ-0084

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

PhotchanaS

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

Approved by

Dej Changchon
Senior Manager
ทะเบียนเลขที่ ว-323-ค-0001

LABORATORY ACCREDITATION
BLA-DSS
TESTING
No.0042

Analysis / Test Report

Lot ID: 2646776
Date Received : Jun 02, 2026
Date Reported : Jun 11, 2026
Report Number : 3583802-1

Client : WHA Utilities and Power Public Company Limited
18, Pakornsongkrohraj Road, Tambol Huaypong, Amphur Muang, Rayong Thailand 21150
P/O :
Project Name :
Project Location: WHA EIE

Sample Number	2646776-1
Sampled Date	Jun 02, 2026 11:00 AM
Sample Description	Effluent
Location	WHA EIE : WWTP
Date Analysis Commenced	Jun 02, 2026
Condition of Sample	Contained in three amber glass bottles and nine 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**
Metals Testing							
Arsenic	mg/L	0.002	0.005	Not Detected	≤0.25	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3120 B, 3030 F	Rayong
Barium	mg/L	0.002	0.005	0.10	≤1.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3120 B, 3030 F	Rayong
Cadmium	mg/L	0.001	0.002	Not Detected	≤0.03	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3120 B, 3030 F	Rayong
Chromium	mg/L	0.001	0.002	0.003	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3120 B, 3030 F	Rayong
Copper	mg/L	0.005	0.01	Not Detected	≤2.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3120 B, 3030 F	Rayong
Hexavalent Chromium	mg/L	0.003	0.01	<0.01	≤0.25	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3500-Cr B	Rayong
Lead	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 3120 B, 3030 F	Rayong

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

Approved by
Dej Changchon
Senior Manager
ทะเบียนเลขที่ ว-323-ค-0001

Analysis / Test Report

Lot ID: 2635581
Date Received : May 05, 2026
Date Reported : May 12, 2026
Report Number : 3558697-3

Client : WHA Utilities and Power Public Company Limited
18, Pakornsongkrohraj Road, Tambol Huaypong, Amphur Muang, Rayong Thailand 21150
P/O :
Project Name :
Project Location: WHA EIE

Sample Number	2635581-1
Sampled Date	May 05, 2026 9:57 AM
Sample Description	Effluent
Location	WHA EIE : WWTP
Date Analysis Commenced	May 05, 2026
Condition of Sample	Contained in one amber glass bottle and nine 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**
Metals Testing							
Iron	mg/L	0.005	0.01	0.32	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3120 B, 3030 F	Rayong
Water Testing							
Ammonia Nitrogen	mg/L	0.05	0.1	0.1	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-NH3 (D)	Rayong
Conductivity at 25 Degree C	micromhos/cm	-	0.5	2781	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2510 B	Rayong
Nitrate as N	mg/L	0.015	0.05	2.98	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-NO3 (E)	Rayong
Silica as SiO2	mg/L	0.2	0.5	11.3	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-SiO2 (C)	Rayong

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

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

Approved by PhotchanaS
Photchana Seeda
Scientist (4)

Analysis / Test Report

TESTING
No.0042

Client : WHA Utilities and Power Public Company Limited
18, Pakornsongkrohraj Road, Tambol Huaypong, Amphur Muang, Rayong Thailand 21150
P/O :
Project Name :
Project Location: WHA EIE

Lot ID: 2646776
Date Received : Jun 02, 2026
Date Reported : Jun 11, 2026
Report Number : 3583802-1

Sample Number	2646776-1
Sampled Date	Jun 02, 2026 11:00 AM
Sample Description	Effluent
Location	WHA EIE : WWTP
Date Analysis Commenced	Jun 02, 2026
Condition of Sample	Contained in three amber glass bottles and nine 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	1.5	25	33	≤120	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Rayong
Cyanide as CN	mg/L	0.001	0.005	0.007	≤0.2	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-CN (C, E)	Rayong
Formaldehyde	mg/L	0.03	0.1	<0.1	≤1.0	Wastewater analysis manual, Environmental Engineering Association of Thailand, 4th ed.,2004	Rayong
Oil & Grease	mg/L	-	3	<3	≤5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Rayong
pH at 25 degree C		-	-	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)	Rayong
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 B, D	Rayong
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)	Rayong
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)	Rayong

Technical Management

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

Approved by

Dej Changchon
Senior Manager
ทะเบียนเลขที่ ว-323-ค-0001

Analysis / Test Report

TESTING
No.0042

Client : WHA Utilities and Power Public Company Limited
18, Pakornsongkrohraj Road, Tambol Huaypong, Amphur Muang, Rayong Thailand 21150
P/O :
Project Name :
Project Location: WHA EIE

Lot ID: 2646776
Date Received : Jun 02, 2026
Date Reported : Jun 11, 2026
Report Number : 3583802-1

Sample Number	2646776-1
Sampled Date	Jun 02, 2026 11:00 AM
Sample Description	Effluent
Location	WHA EIE : WWTP
Date Analysis Commenced	Jun 02, 2026
Condition of Sample	Contained in three amber glass bottles and nine 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
Metals Testing							
Manganese	mg/L	0.001	0.002	0.39	≤5.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3120 B, 3030 F	Rayong
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 (B)	Rayong
Nickel	mg/L	0.002	0.005	0.02	≤1.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3120 B, 3030 F	Rayong
Selenium	mg/L	0.005	0.01	Not Detected	≤0.02	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3120 B, 3030 F	Rayong
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, Calculated	Rayong
Zinc	mg/L	0.005	0.01	0.27	≤5.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3120 B, 3030 F	Rayong
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	<2.0	≤16	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Rayong

Technical Management

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

Approved by

Dej Changchon
Senior Manager
ทะเบียนเลขที่ ว-323-ค-0001

Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
18, Pakornsongkrohraj Road, Tambol Huaypong, Amphur Muang, Rayong Thailand 21150
P/O :
Project Name :
Project Location: WHA EIE

Lot ID: 2646776
Date Received : Jun 02, 2026
Date Reported : Jun 10, 2026
Report Number : 3583802-2

Sample Number	2646776-1
Sampled Date	Jun 02, 2026 11:00 AM
Sample Description	Effluent
Location	WHA EIE : WWTP
Date Analysis Commenced	Jun 04, 2026
Condition of Sample	Contained in three amber glass bottles and nine 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
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
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

Technical Management Suwimon C.
Suwimon Chairuangwut
Scientist (3)
ทะเบียนเลขที่ ว-204-จ-0018

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

Analysis / Test Report

TESTING
No.0042

Client : WHA Utilities and Power Public Company Limited
18, Pakornsongkrohraj Road, Tambol Huaypong, Amphur Muang, Rayong Thailand 21150
P/O :
Project Name :
Project Location: WHA EIE

Lot ID: 2646776
Date Received : Jun 02, 2026
Date Reported : Jun 11, 2026
Report Number : 3583802-1

Sample Number	2646776-1
Sampled Date	Jun 02, 2026 11:00 AM
Sample Description	Effluent
Location	WHA EIE : WWTP
Date Analysis Commenced	Jun 02, 2026
Condition of Sample	Contained in three amber glass bottles and nine 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							
Temperature *	Degree C	-	-	36.0	≤40	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	2380	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong
Total Kjeldahl Nitrogen as N	mg/L	-	1.0	5.2	≤100	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-Norg (C), part NH3 (D)	Rayong
Total Suspended Solids Dried from 103-105 degree C	mg/L	-	5	46	≤50	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Rayong

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

Note : BOD Guideline set by Amendment details report of Environmental Health Impact Assessment Report of WHA Eastern Industrial Estate (Map Ta Put), 4th edition 2020, B.E. 2563

Sampling By : Surawit Narapong ทะเบียนเลขที่ ว-323-จ-0011 , Thanasoun Namakunna ทะเบียนเลขที่ ว-204-จ-0101

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

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

Approved by
Dej Changchon
Senior Manager
ทะเบียนเลขที่ ว-323-ค-0001

Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
18, Pakornsongkrohraj Road, Tambol Huaypong, Amphur Muang, Rayong Thailand 21150
P/O :
Project Name :
Project Location: WHA EIE

Lot ID: 2646776
Date Received : Jun 02, 2026
Date Reported : Jun 10, 2026
Report Number : 3583802-2

Sample Number	2646776-1
Sampled Date	Jun 02, 2026 11:00 AM
Sample Description	Effluent
Location	WHA EIE : WWTP
Date Analysis Commenced	Jun 04, 2026
Condition of Sample	Contained in three amber glass bottles and nine 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
Pesticides - Organochlorine Group							
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
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							
Total Phosphorus as P	mg/L	0.2	0.5	1.1	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).
Note : BOD Guideline set by Amendment details report of Environmental Health Impact Assessment Report of WHA Eastern Industrial Estate (Map Ta Put), 4th edition 2020, B.E. 2563
Sampling By : Surawit Narapong ทะเบียนเลขที่ ว-323-จ-0011 , Thanasoun Namakunna ทะเบียนเลขที่ ว-204-จ-0101

Remark :

Technical Management
Suwimon C.
Suwimon Chairuangwut
Scientist (3)
ทะเบียนเลขที่ ว-204-จ-0018

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

Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
18, Pakornsongkrohraj Road, Tambol Huaypong, Amphur Muang, Rayong Thailand 21150
P/O :
Project Name :
Project Location: WHA EIE

Lot ID: 2646776
Date Received : Jun 02, 2026
Date Reported : Jun 10, 2026
Report Number : 3583802-2

Sample Number	2646776-1
Sampled Date	Jun 02, 2026 11:00 AM
Sample Description	Effluent
Location	WHA EIE : WWTP
Date Analysis Commenced	Jun 04, 2026
Condition of Sample	Contained in three amber glass bottles and nine 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
Pesticides - Organochlorine Group							
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
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
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

Technical Management
Suwimon C.
Suwimon Chairuangwut
Scientist (3)
ทะเบียนเลขที่ ว-204-จ-0018

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

TESTING
No.0042

Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
18, Pakornsongkrohraj Road, Tambol Huaypong, Amphur Muang, Rayong Thailand 21150
P/O :
Project Name :
Project Location: WHA EIE

Lot ID: 2646776
Date Received : Jun 02, 2026
Date Reported : Jun 12, 2026
Report Number : 3583802-3

Sample Number	2646776-1
Sampled Date	Jun 02, 2026 11:00 AM
Sample Description	Effluent
Location	WHA EIE : WWTP
Date Analysis Commenced	Jun 02, 2026
Condition of Sample	Contained in three amber glass bottles and nine 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
Metals Testing							
Iron	mg/L	0.005	0.01	0.59	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3120 B, 3030 F	Rayong
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							
Ammonia Nitrogen *	mg/L	0.05	0.1	0.3	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-NH3 (D)	Rayong
Conductivity at 25 Degree C *	micromhos/cm	-	0.5	3660	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2510 B	Rayong

Approved by PhotchanaS
Photchana Seeda
Scientist (4)

Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
18, Pakornsongkrohraj Road, Tambol Huaypong, Amphur Muang, Rayong Thailand 21150
P/O :
Project Name :
Project Location: WHA EIE

Lot ID: 2646776
Date Received : Jun 02, 2026
Date Reported : Jun 10, 2026
Report Number : 3583802-2

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

Technical Management Suwimon C.
Suwimon Chairuangwut
Scientist (3)
ทะเบียนเลขที่ ว-204-จ-0018

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

TESTING
No.0042

Analysis / Test Report

Lot ID: 2646776

Client : WHA Utilities and Power Public Company Limited
18, Pakornsongkrohraj Road, Tambol Huaypong, Amphur Muang, Rayong Thailand 21150

P/O :

Project Name :

Project Location: WHA EIE

Date Received : Jun 02, 2026
Date Reported : Jun 12, 2026
Report Number : 3583802-3

Sample Number	2646776-1
Sampled Date	Jun 02, 2026 11:00 AM
Sample Description	Effluent
Location	WHA EIE : WWTP
Date Analysis Commenced	Jun 02, 2026
Condition of Sample	Contained in three amber glass bottles and nine 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							
Nitrate as N *	mg/L	0.015	0.05	5.23	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-NO3 (E)	Rayong
Silica as SiO2 *	mg/L	0.2	0.5	16.5	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-SiO2 (C)	Rayong

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

Note : BOD Guideline set by Amendment details report of Environmental Health Impact Assessment Report of WHA Eastern Industrial Estate (Map Ta Put), 4th edition 2020, B.E. 2563

Sampling By : Surawit Narapong , Thanasoun Namakunna

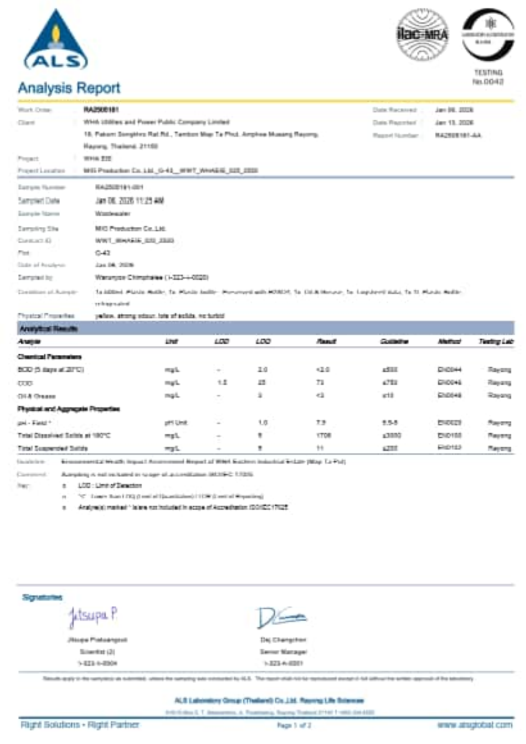
Remark :
- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.
- Sampling is not included in scope of accreditation ISO/IEC 17025

Approved by PhotchanaS

Photchana Seeda
Scientist (4)

ภาคผนวก ค-6

คุณลักษณะน้ำเสียโรงงาน



Analysis Report

TESTING No.0042

Work Order: RA2500181
Client: WHA Utilities and Power Public Company Limited
18, Pakorn Songkhro Rat Rd., Tambon Map Ta Phut, Amphoe Mueang Rayong, Rayong, Thailand, 21150
Project: WHA EIE
Project Location: MIG Production Co.,Ltd._G-43__WWT_WHAEIE_020_2020
Date Received: Jan 06, 2026
Date Reported: Jan 13, 2026
Report Number: RA2500181-AA

Sample Number: RA2500181-001
Sampled Date: Jan 06, 2026 11:25 AM
Sample Name: Wastewater
Sampling Site: MIG Production Co.,Ltd.
Contract ID: WWT_WHAEIE_020_2020
Plot: G-43
Date of Analysis: Jan 06, 2026
Sampled by: Waranyoo Chimphalee (1-223-4-0020)
Physical Properties: yellow, strong odour, lots of solids, no 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	Rayong
COD	mg/L	1.5	25	71	≤750	EN0046	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	EN0048	Rayong
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.9	5.5-9	EN0023	Rayong
Total Dissolved Solids at 180°C	mg/L	-	5	1708	≤3000	EN0100	Rayong
Total Suspended Solids	mg/L	-	5	11	≤200	EN0102	Rayong

Guideline: Environmental Health Impact Assessment Report of WHA Eastern Industrial Estate (Map Ta Phut)
Comment: Sampling is not included in scope of accreditation ISO/IEC 17025
Key:
- LOD : Limit of Detection
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC17025

Signatories

Jitsupa P.
Jitsupa Piatsangsot
Scientist (2)
1-223-4-0004

Dej Changchon
Senior Manager
1-223-A-0001

ALS Laboratory Group (Thailand) Co.,Ltd. Rayong Life Sciences

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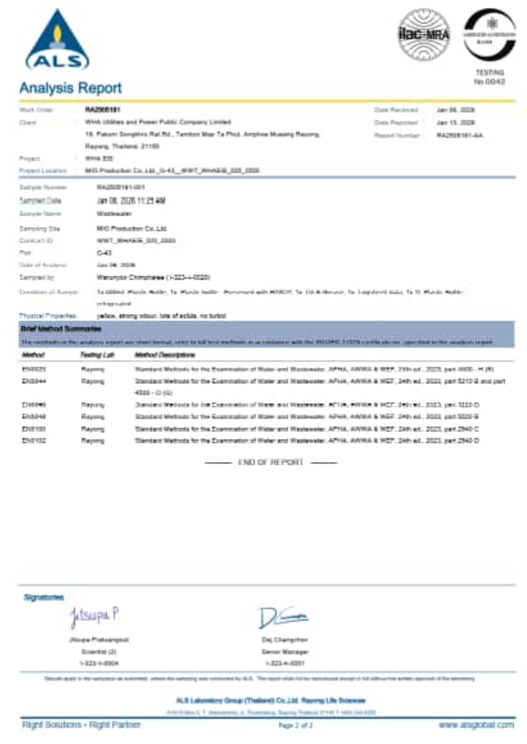

Analysis Report

TESTING No.0042

Work Order: RA2500181
Client: WHA Utilities and Power Public Company Limited
18, Pakorn Songkhro Rat Rd., Tambon Map Ta Phut, Amphoe Mueang Rayong, Rayong, Thailand, 21150
Project: WHA EIE
Project Location: MIG Production Co.,Ltd._G-43__WWT_WHAEIE_020_2020
Date Received: Jan 06, 2026
Date Reported: Jan 13, 2026
Report Number: RA2500181-AA

Sample Number: RA2500181-001
Sampled Date: Jan 06, 2026 11:25 AM
Sample Name: Wastewater
Sampling Site: MIG Production Co.,Ltd.
Contract ID: WWT_WHAEIE_020_2020
Plot: G-43
Date of Analysis: Jan 06, 2026
Sampled by: Waranyoo Chimphalee (1-223-4-0020)
Physical Properties: yellow, strong odour, lots of solids, no turbid

Brief Method Summaries

Method	Testing Lab	Method Descriptions
EN0023	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0100	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C
EN0102	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

—— END OF REPORT ——

Signatories

Jitsupa P.
Jitsupa Piatsangsot
Scientist (2)
1-223-4-0004

Dej Changchon
Senior Manager
1-223-A-0001

ALS Laboratory Group (Thailand) Co.,Ltd. Rayong Life Sciences

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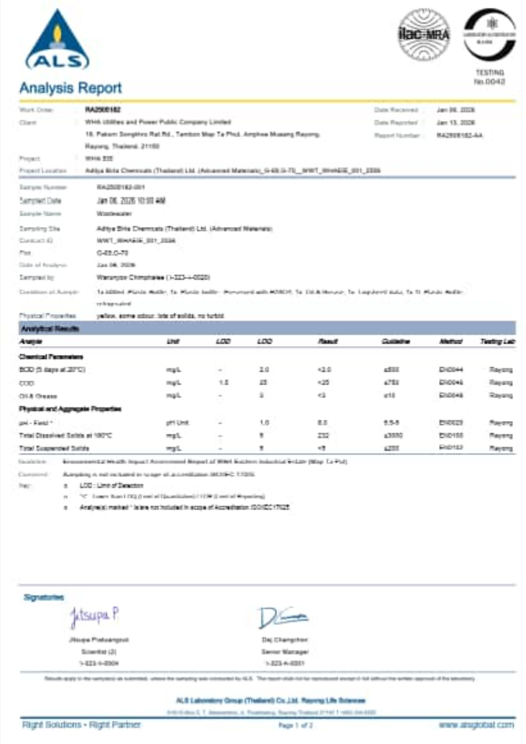

Analysis Report

TESTING No.0042

Work Order: RA2500182
Client: WHA Utilities and Power Public Company Limited
18, Pakorn Songkhro Rat Rd., Tambon Map Ta Phut, Amphoe Mueang Rayong, Rayong, Thailand, 21150
Project: WHA EIE
Project Location: Aditya Birla Chemicals (Thailand) Ltd. (Advanced Materials)_G-69,G-70__WWT_WHAEIE_001_2006
Date Received: Jan 06, 2026
Date Reported: Jan 13, 2026
Report Number: RA2500182-AA

Sample Number: RA2500182-001
Sampled Date: Jan 06, 2026 10:00 AM
Sample Name: Wastewater
Sampling Site: Aditya Birla Chemicals (Thailand) Ltd. (Advanced Materials)
Contract ID: WWT_WHAEIE_001_2006
Plot: G-69,G-70
Date of Analysis: Jan 06, 2026
Sampled by: Waranyoo Chimphalee (1-223-4-0020)
Physical Properties: yellow, some odour, lots of solids, no 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	Rayong
COD	mg/L	1.5	25	<25	≤750	EN0046	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	EN0048	Rayong
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	8.0	5.5-9	EN0023	Rayong
Total Dissolved Solids at 180°C	mg/L	-	5	232	≤3000	EN0100	Rayong
Total Suspended Solids	mg/L	-	5	<5	≤200	EN0102	Rayong

Guideline: Environmental Health Impact Assessment Report of WHA Eastern Industrial Estate (Map Ta Phut)
Comment: Sampling is not included in scope of accreditation ISO/IEC 17025
Key:
- LOD : Limit of Detection
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC17025

Signatories

Jitsupa P.
Jitsupa Piatsangsot
Scientist (2)
1-223-4-0004

Dej Changchon
Senior Manager
1-223-A-0001

ALS Laboratory Group (Thailand) Co.,Ltd. Rayong Life Sciences

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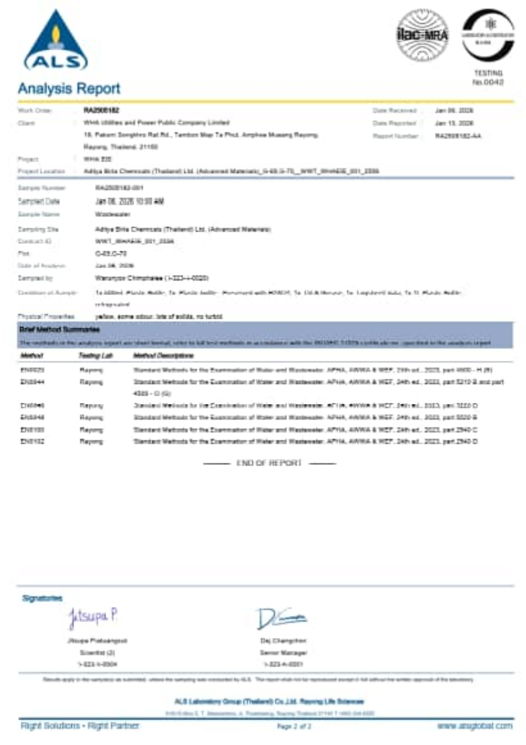

Analysis Report

TESTING No.0042

Work Order: RA2500182
Client: WHA Utilities and Power Public Company Limited
18, Pakorn Songkhro Rat Rd., Tambon Map Ta Phut, Amphoe Mueang Rayong, Rayong, Thailand, 21150
Project: WHA EIE
Project Location: Aditya Birla Chemicals (Thailand) Ltd. (Advanced Materials)_G-69,G-70__WWT_WHAEIE_001_2006
Date Received: Jan 06, 2026
Date Reported: Jan 13, 2026
Report Number: RA2500182-AA

Sample Number: RA2500182-001
Sampled Date: Jan 06, 2026 10:00 AM
Sample Name: Wastewater
Sampling Site: Aditya Birla Chemicals (Thailand) Ltd. (Advanced Materials)
Contract ID: WWT_WHAEIE_001_2006
Plot: G-69,G-70
Date of Analysis: Jan 06, 2026
Sampled by: Waranyoo Chimphalee (1-223-4-0020)
Physical Properties: yellow, some odour, lots of solids, no turbid

Brief Method Summaries

Method	Testing Lab	Method Descriptions
EN0023	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0100	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C
EN0102	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

—— END OF REPORT ——

Signatories

Jitsupa P.
Jitsupa Piatsangsot
Scientist (2)
1-223-4-0004

Dej Changchon
Senior Manager
1-223-A-0001

ALS Laboratory Group (Thailand) Co.,Ltd. Rayong Life Sciences

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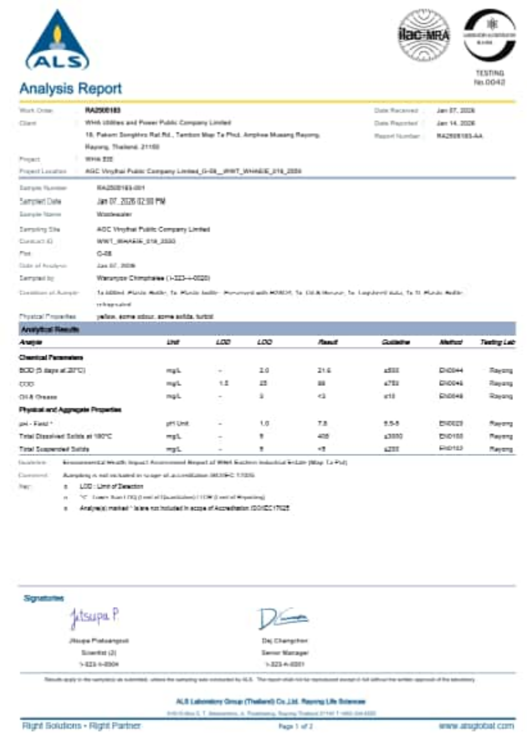

Analysis Report

TESTING No.0042

Work Order: RA2500183
Client: WHA Utilities and Power Public Company Limited
18, Pakorn Songkhro Rat Rd., Tambon Map Ta Phut, Amphoe Mueang Rayong, Rayong, Thailand, 21150
Project: WHA EIE
Project Location: AGC Vinythai Public Company Limited_G-08__WWT_WHAEIE_019_2020
Date Received: Jan 07, 2026
Date Reported: Jan 14, 2026
Report Number: RA2500183-AA

Sample Number: RA2500183-001
Sampled Date: Jan 07, 2026 02:00 PM
Sample Name: Wastewater
Sampling Site: AGC Vinythai Public Company Limited
Contract ID: WWT_WHAEIE_019_2020
Plot: G-08
Date of Analysis: Jan 07, 2026
Sampled by: Waranyoo Chimphalee (1-223-4-0020)
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	21.6	≤500	EN0044	Rayong
COD	mg/L	1.5	25	88	≤750	EN0046	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	EN0048	Rayong
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.8	5.5-9	EN0023	Rayong
Total Dissolved Solids at 180°C	mg/L	-	5	408	≤3000	EN0100	Rayong
Total Suspended Solids	mg/L	-	5	<5	≤200	EN0102	Rayong

Guideline: Environmental Health Impact Assessment Report of WHA Eastern Industrial Estate (Map Ta Phut)
Comment: Sampling is not included in scope of accreditation ISO/IEC 17025
Key:
- LOD : Limit of Detection
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC17025

Signatories

Jitsupa P.
Jitsupa Piatsangsot
Scientist (2)
1-223-4-0004

Dej Changchon
Senior Manager
1-223-A-0001

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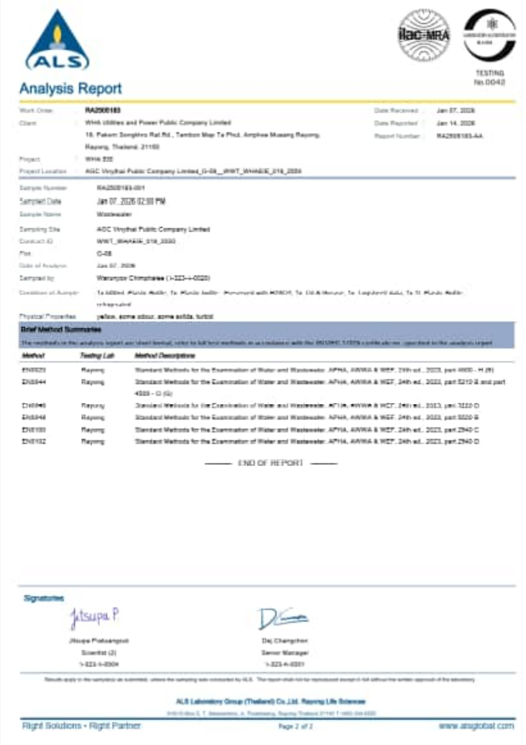

Analysis Report

TESTING No.0042

Work Order: RA2500183
Client: WHA Utilities and Power Public Company Limited
18, Pakorn Songkhro Rat Rd., Tambon Map Ta Phut, Amphoe Mueang Rayong, Rayong, Thailand, 21150
Project: WHA EIE
Project Location: AGC Vinythai Public Company Limited_G-08__WWT_WHAEIE_019_2020
Date Received: Jan 07, 2026
Date Reported: Jan 14, 2026
Report Number: RA2500183-AA

Sample Number: RA2500183-001
Sampled Date: Jan 07, 2026 02:00 PM
Sample Name: Wastewater
Sampling Site: AGC Vinythai Public Company Limited
Contract ID: WWT_WHAEIE_019_2020
Plot: G-08
Date of Analysis: Jan 07, 2026
Sampled by: Waranyoo Chimphalee (1-223-4-0020)
Physical Properties: yellow, some odour, some solids, turbid

Brief Method Summaries

Method	Testing Lab	Method Descriptions
EN0023	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0100	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C
EN0102	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

—— END OF REPORT ——

Signatories

Jitsupa P.
Jitsupa Piatsangsot
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1-223-4-0004

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1-223-A-0001

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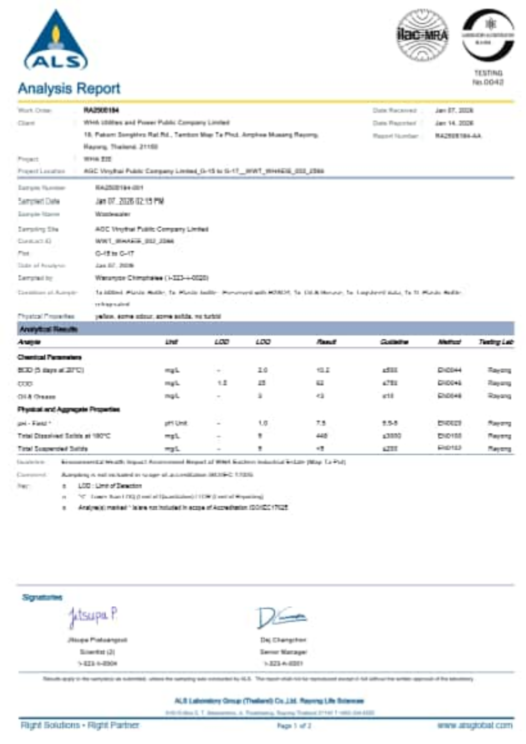

Analysis Report

TESTING No.0042

Work Order: RA2500184
Client: WHA Utilities and Power Public Company Limited
18, Pakorn Songkhro Rat Rd., Tambon Map Ta Phut, Amphoe Mueang Rayong, Rayong, Thailand, 21150
Project: WHA EIE
Project Location: AGC Vinythai Public Company Limited_G-15 to G-17__WWT_WHAEIE_002_2566
Date Received: Jan 07, 2026
Date Reported: Jan 14, 2026
Report Number: RA2500184-AA

Sample Number: RA2500184-001
Sampled Date: Jan 07, 2026 02:15 PM
Sample Name: Wastewater
Sampling Site: AGC Vinythai Public Company Limited
Contract ID: WWT_WHAEIE_002_2566
Plot: G-15 to G-17
Date of Analysis: Jan 07, 2026
Sampled by: Waranyoo Chimphalee (1-223-4-0020)
Physical Properties: yellow, some odour, some solids, no turbid

Analytical Results

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	10.2	≤500	EN0044	Rayong
COD	mg/L	1.5	25	62	≤750	EN0046	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	EN0048	Rayong
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.5	5.5-9	EN0023	Rayong
Total Dissolved Solids at 180°C	mg/L	-	5	448	≤3000	EN0100	Rayong
Total Suspended Solids	mg/L	-	5	<5	≤200	EN0102	Rayong

Guideline: Environmental Health Impact Assessment Report of WHA Eastern Industrial Estate (Map Ta Phut)
Comment: Sampling is not included in scope of accreditation ISO/IEC 17025
Key:
- LOD : Limit of Detection
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC17025

Signatories

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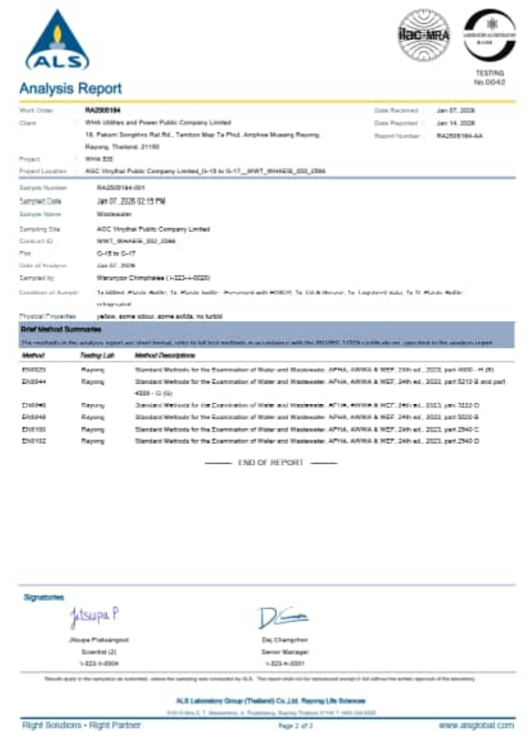

Analysis Report

TESTING No.0042

Work Order: RA2500184
Client: WHA Utilities and Power Public Company Limited
18, Pakorn Songkhro Rat Rd., Tambon Map Ta Phut, Amphoe Mueang Rayong, Rayong, Thailand, 21150
Project: WHA EIE
Project Location: AGC Vinythai Public Company Limited_G-15 to G-17__WWT_WHAEIE_002_2566
Date Received: Jan 07, 2026
Date Reported: Jan 14, 2026
Report Number: RA2500184-AA

Sample Number: RA2500184-001
Sampled Date: Jan 07, 2026 02:15 PM
Sample Name: Wastewater
Sampling Site: AGC Vinythai Public Company Limited
Contract ID: WWT_WHAEIE_002_2566
Plot: G-15 to G-17
Date of Analysis: Jan 07, 2026
Sampled by: Waranyoo Chimphalee (1-223-4-0020)
Physical Properties: yellow, some odour, some solids, no turbid

Brief Method Summaries

Method	Testing Lab	Method Descriptions
EN0023	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0100	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C
EN0102	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

—— END OF REPORT ——

Signatories

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Jitsupa Piatsangsot
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Dej Changchon
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1-223-A-0001

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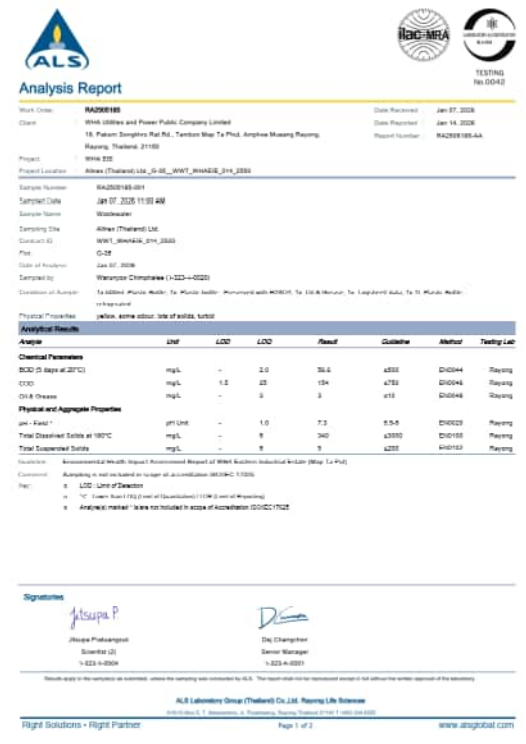

Analysis Report

TESTING No.0042

Work Order: RA2500185
Client: WHA Utilities and Power Public Company Limited
18, Pakorn Songkhro Rat Rd., Tambon Map Ta Phut, Amphoe Mueang Rayong, Rayong, Thailand, 21150
Project: WHA EIE
Project Location: Altrex (Thailand) Ltd._G-28__WWT_WHAEIE_014_2020
Date Received: Jan 07, 2026
Date Reported: Jan 14, 2026
Report Number: RA2500185-AA

Sample Number: RA2500185-001
Sampled Date: Jan 07, 2026 11:00 AM
Sample Name: Wastewater
Sampling Site: Altrex (Thailand) Ltd.
Contract ID: WWT_WHAEIE_014_2020
Plot: G-28
Date of Analysis: Jan 07, 2026
Sampled by: Waranyoo Chimphalee (1-223-4-0020)
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	56.6	≤500	EN0044	Rayong
COD	mg/L	1.5	25	154	≤750	EN0046	Rayong
Oil & Grease	mg/L	-	3	3	≤10	EN0048	Rayong
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.3	5.5-9	EN0023	Rayong
Total Dissolved Solids at 180°C	mg/L	-	5	340	≤3000	EN0100	Rayong
Total Suspended Solids	mg/L	-	5	5	≤200	EN0102	Rayong

Guideline: Environmental Health Impact Assessment Report of WHA Eastern Industrial Estate (Map Ta Phut)
Comment: Sampling is not included in scope of accreditation ISO/IEC 17025
Key:
- LOD : Limit of Detection
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC17025

Signatories

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Jitsupa Piatsangsot
Scientist (2)
1-223-4-0004

Dej Changchon
Senior Manager
1-223-A-0001

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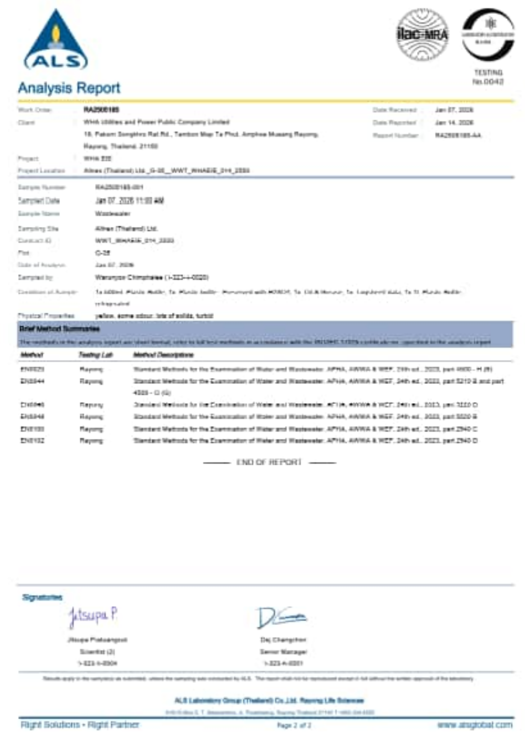

Analysis Report

TESTING No.0042

Work Order : RA2500185
Client : WHA Utilities and Power Public Company Limited
18, Pakorn Songkhro Rat Rd., Tambon Map Ta Phut, Amphoe Mueang Rayong, Rayong, Thailand, 21150
Project : WHA EIE
Project Location : Altrex (Thailand) Ltd._G-05__WWT_WHAEIE_014_2533
Date Received : Jan 07, 2026
Date Reported : Jan 14, 2026
Report Number : RA2500185-AA

Sample Number : RA2500185-001
Sampled Date : Jan 07, 2026 11:00 AM
Sample Name : Wastewater
Sampling Site : Altrex (Thailand) Ltd.
Contact ID : WWT_WHAEIE_014_2533
Plot : G-28
Date of Analysis : Jan 07, 2026
Sampled by : Warunyoo Chimphalee (1-323-4-0020)
Condition of Sample : 1x 500ml Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x [illegible], 1x 1L 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 [illegible] specified in the analysis report

Method	Testing Lab	Method Descriptions
EN0023	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0100	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C
EN0102	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

——— END OF REPORT ———

Signatories

Jitsupa P.
Jitsupa Pialoangsuk
Scientist (2)
1-323-4-0004

Dej Changchon
Senior Manager
1-323-A-0001

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.

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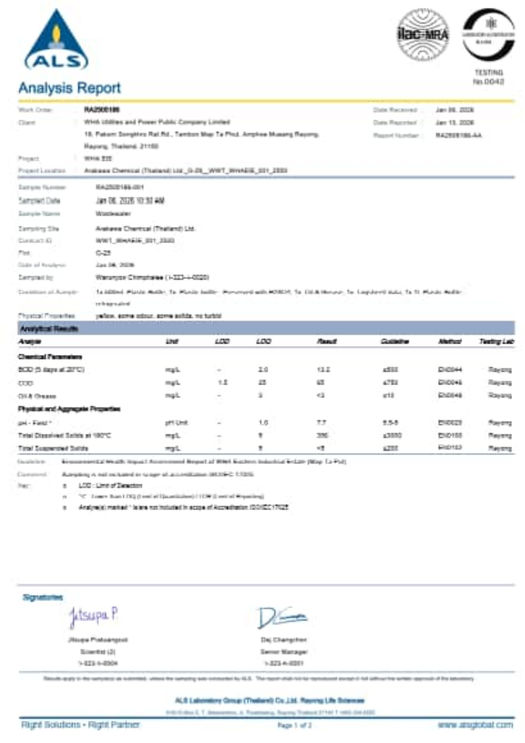

Analysis Report

TESTING No.0042

Work Order : RA2500186
Client : WHA Utilities and Power Public Company Limited
18, Pakorn Songkhro Rat Rd., Tambon Map Ta Phut, Amphoe Mueang Rayong, Rayong, Thailand, 21150
Project : WHA EIE
Project Location : Arakawa Chemical (Thailand) Ltd._G-25__WWT_WHAEIE_001_2533
Date Received : Jan 06, 2026
Date Reported : Jan 13, 2026
Report Number : RA2500186-AA

Sample Number : RA2500186-001
Sampled Date : Jan 06, 2026 10:30 AM
Sample Name : Wastewater
Sampling Site : Arakawa Chemical (Thailand) Ltd.
Contact ID : WWT_WHAEIE_001_2533
Plot : G-25
Date of Analysis : Jan 06, 2026
Sampled by : Warunyoo Chimphalee (1-323-4-0020)
Condition of Sample : 1x 500ml Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x [illegible], 1x 1L Plastic Bottle refrigerated
Physical Properties : yellow, some odour, some solids, no turbid

Analytical Results

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	13.2	≤500	EN0044	Rayong
COD	mg/L	1.5	25	65	≤750	EN0046	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	EN0048	Rayong
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.7	5.5-9	EN0023	Rayong
Total Dissolved Solids at 180°C	mg/L	-	5	396	≤3000	EN0100	Rayong
Total Suspended Solids	mg/L	-	5	<5	≤200	EN0102	Rayong

Guideline : Environmental Health Impact Assessment Report of WHA Eastern Industrial Estate (Map Ta Phut)
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

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Jitsupa Pialoangsuk
Scientist (2)
1-323-4-0004

Dej Changchon
Senior Manager
1-323-A-0001

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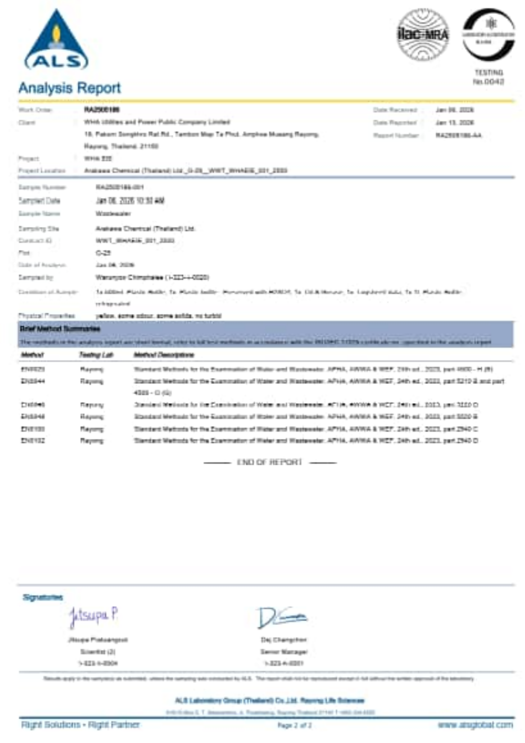

Analysis Report

TESTING No.0042

Work Order : RA2500186
Client : WHA Utilities and Power Public Company Limited
18, Pakorn Songkhro Rat Rd., Tambon Map Ta Phut, Amphoe Mueang Rayong, Rayong, Thailand, 21150
Project : WHA EIE
Project Location : Arakawa Chemical (Thailand) Ltd._G-25__WWT_WHAEIE_001_2533
Date Received : Jan 06, 2026
Date Reported : Jan 13, 2026
Report Number : RA2500186-AA

Sample Number : RA2500186-001
Sampled Date : Jan 06, 2026 10:30 AM
Sample Name : Wastewater
Sampling Site : Arakawa Chemical (Thailand) Ltd.
Contact ID : WWT_WHAEIE_001_2533
Plot : G-25
Date of Analysis : Jan 06, 2026
Sampled by : Warunyoo Chimphalee (1-323-4-0020)
Condition of Sample : 1x 500ml Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x [illegible], 1x 1L Plastic Bottle refrigerated
Physical Properties : yellow, some odour, some solids, no 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 [illegible] specified in the analysis report

Method	Testing Lab	Method Descriptions
EN0023	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0100	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C
EN0102	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

——— END OF REPORT ———

Signatories

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Jitsupa Pialoangsuk
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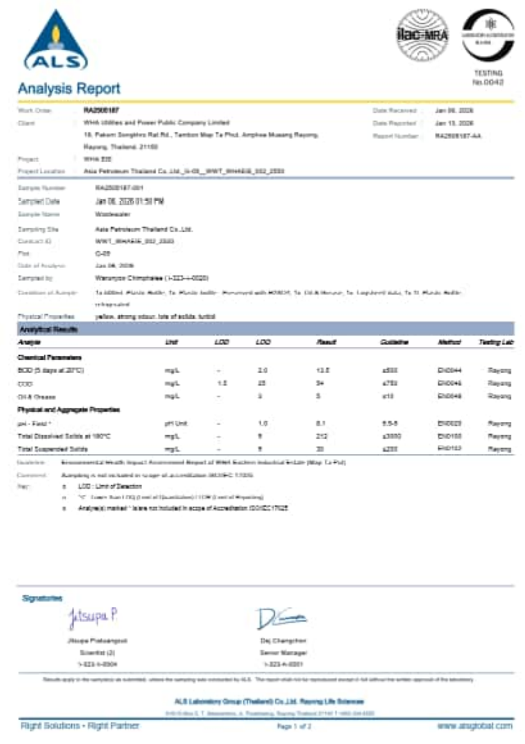

Analysis Report

TESTING No.0042

Work Order : RA2500187
Client : WHA Utilities and Power Public Company Limited
18, Pakorn Songkhro Rat Rd., Tambon Map Ta Phut, Amphoe Mueang Rayong, Rayong, Thailand, 21150
Project : WHA EIE
Project Location : Asia Petroleum Thailand Co.,Ltd._G-05__WWT_WHAEIE_002_2533
Date Received : Jan 06, 2026
Date Reported : Jan 13, 2026
Report Number : RA2500187-AA

Sample Number : RA2500187-001
Sampled Date : Jan 06, 2026 01:50 PM
Sample Name : Wastewater
Sampling Site : Asia Petroleum Thailand Co.,Ltd.
Contact ID : WWT_WHAEIE_002_2533
Plot : G-05
Date of Analysis : Jan 06, 2026
Sampled by : Warunyoo Chimphalee (1-323-4-0020)
Condition of Sample : 1x 500ml Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x [illegible], 1x 1L 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	13.5	≤500	EN0044	Rayong
COD	mg/L	1.5	25	54	≤750	EN0046	Rayong
Oil & Grease	mg/L	-	3	5	≤10	EN0048	Rayong
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	8.1	5.5-9	EN0023	Rayong
Total Dissolved Solids at 180°C	mg/L	-	5	212	≤3000	EN0100	Rayong
Total Suspended Solids	mg/L	-	5	30	≤200	EN0102	Rayong

Guideline : Environmental Health Impact Assessment Report of WHA Eastern Industrial Estate (Map Ta Phut)
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

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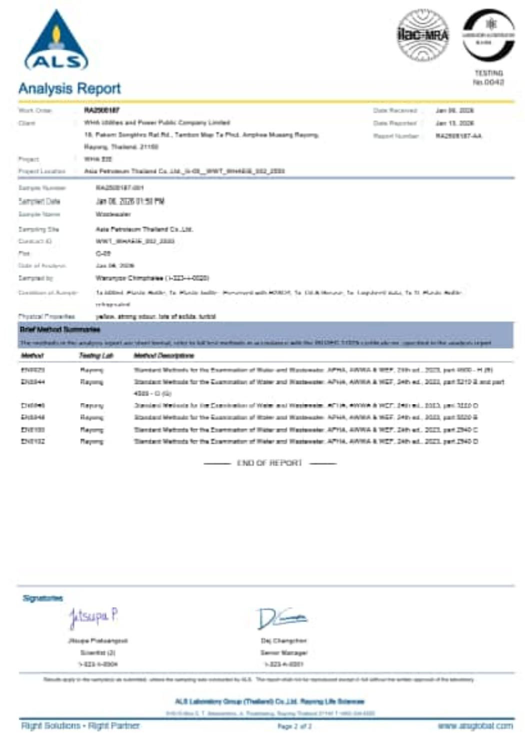

Analysis Report

TESTING No.0042

Work Order : RA2500187
Client : WHA Utilities and Power Public Company Limited
18, Pakorn Songkhro Rat Rd., Tambon Map Ta Phut, Amphoe Mueang Rayong, Rayong, Thailand, 21150
Project : WHA EIE
Project Location : Asia Petroleum Thailand Co.,Ltd._G-05__WWT_WHAEIE_002_2533
Date Received : Jan 06, 2026
Date Reported : Jan 13, 2026
Report Number : RA2500187-AA

Sample Number : RA2500187-001
Sampled Date : Jan 06, 2026 01:50 PM
Sample Name : Wastewater
Sampling Site : Asia Petroleum Thailand Co.,Ltd.
Contact ID : WWT_WHAEIE_002_2533
Plot : G-05
Date of Analysis : Jan 06, 2026
Sampled by : Warunyoo Chimphalee (1-323-4-0020)
Condition of Sample : 1x 500ml Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x [illegible], 1x 1L 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 [illegible] specified in the analysis report

Method	Testing Lab	Method Descriptions
EN0023	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0100	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C
EN0102	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

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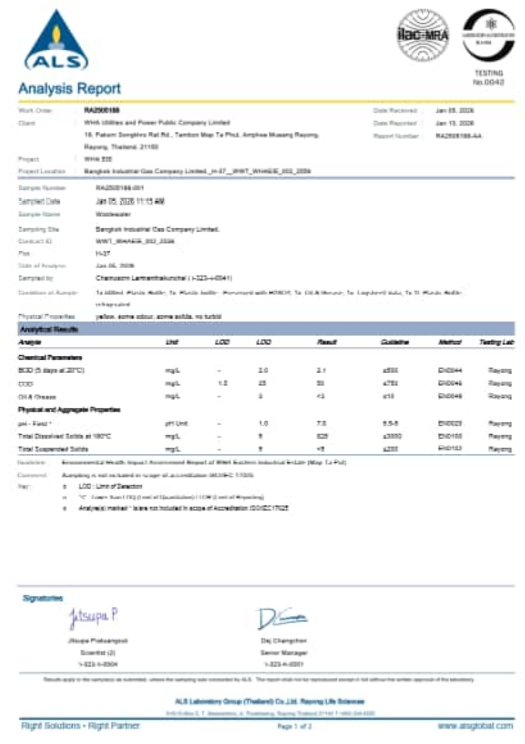

Analysis Report

TESTING No.0042

Work Order : RA2500188
Client : WHA Utilities and Power Public Company Limited
18, Pakorn Songkhro Rat Rd., Tambon Map Ta Phut, Amphoe Mueang Rayong, Rayong, Thailand, 21150
Project : WHA EIE
Project Location : Bangkok Industrial Gas Company Limited._H-07__WWT_WHAEIE_002_2556
Date Received : Jan 05, 2026
Date Reported : Jan 13, 2026
Report Number : RA2500188-AA

Sample Number : RA2500188-001
Sampled Date : Jan 05, 2026 11:15 AM
Sample Name : Wastewater
Sampling Site : Bangkok Industrial Gas Company Limited.
Contact ID : WWT_WHAEIE_002_2556
Plot : H-37
Date of Analysis : Jan 06, 2026
Sampled by : Chamusorn Lamnamthakunchai (1-323-4-0041)
Condition of Sample : 1x 500ml Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x [illegible], 1x 1L Plastic Bottle refrigerated
Physical Properties : yellow, some odour, some solids, no turbid

Analytical Results

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	2.1	≤500	EN0044	Rayong
COD	mg/L	1.5	25	50	≤750	EN0046	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	EN0048	Rayong
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.6	5.5-9	EN0023	Rayong
Total Dissolved Solids at 180°C	mg/L	-	5	525	≤3000	EN0100	Rayong
Total Suspended Solids	mg/L	-	5	<5	≤200	EN0102	Rayong

Guideline : Environmental Health Impact Assessment Report of WHA Eastern Industrial Estate (Map Ta Phut)
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

Jitsupa P.
Jitsupa Pialoangsuk
Scientist (2)
1-323-4-0004

Dej Changchon
Senior Manager
1-323-A-0001

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.

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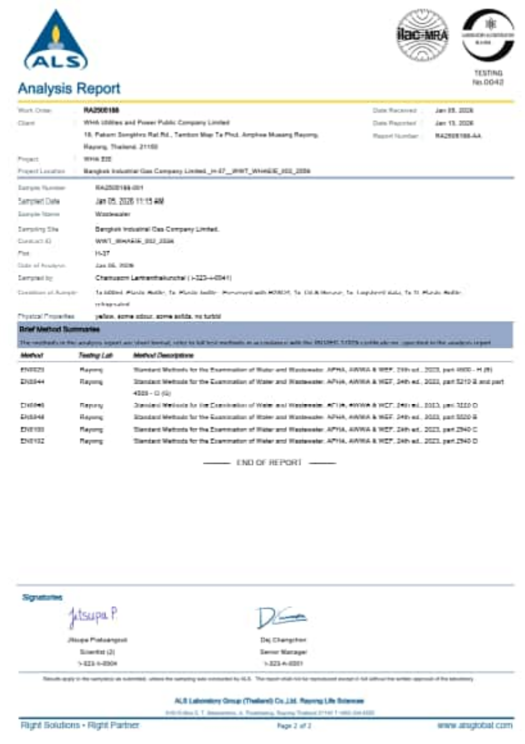

Analysis Report

TESTING No.0042

Work Order : RA2500188
Client : WHA Utilities and Power Public Company Limited
18, Pakorn Songkhro Rat Rd., Tambon Map Ta Phut, Amphoe Mueang Rayong, Rayong, Thailand, 21150
Project : WHA EIE
Project Location : Bangkok Industrial Gas Company Limited._H-07__WWT_WHAEIE_002_2556
Date Received : Jan 05, 2026
Date Reported : Jan 13, 2026
Report Number : RA2500188-AA

Sample Number : RA2500188-001
Sampled Date : Jan 05, 2026 11:15 AM
Sample Name : Wastewater
Sampling Site : Bangkok Industrial Gas Company Limited.
Contact ID : WWT_WHAEIE_002_2556
Plot : H-37
Date of Analysis : Jan 06, 2026
Sampled by : Chamusorn Lamnamthakunchai (1-323-4-0041)
Condition of Sample : 1x 500ml Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x [illegible], 1x 1L Plastic Bottle refrigerated
Physical Properties : yellow, some odour, some solids, no 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 [illegible] specified in the analysis report

Method	Testing Lab	Method Descriptions
EN0023	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0100	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C
EN0102	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

——— END OF REPORT ———

Signatories

Jitsupa P.
Jitsupa Pialoangsuk
Scientist (2)
1-323-4-0004

Dej Changchon
Senior Manager
1-323-A-0001

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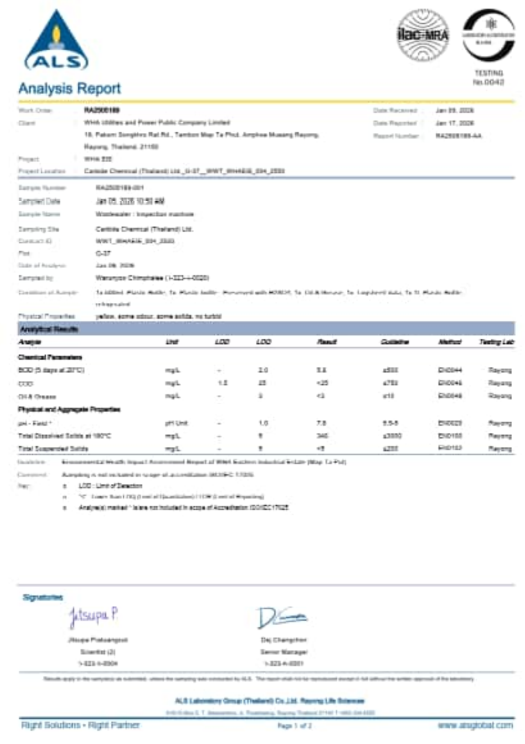

Analysis Report

TESTING No.0042

Work Order : RA2500189
Client : WHA Utilities and Power Public Company Limited
18, Pakorn Songkhro Rat Rd., Tambon Map Ta Phut, Amphoe Mueang Rayong, Rayong, Thailand, 21150
Project : WHA EIE
Project Location : Carbide Chemical (Thailand) Ltd._G-37__WWT_WHAEIE_004_2533
Date Received : Jan 05, 2026
Date Reported : Jan 17, 2026
Report Number : RA2500189-AA

Sample Number : RA2500189-001
Sampled Date : Jan 05, 2026 10:50 AM
Sample Name : Wastewater : Inspection machine
Sampling Site : Carbide Chemical (Thailand) Ltd.
Contact ID : WWT_WHAEIE_004_2533
Plot : G-37
Date of Analysis : Jan 06, 2026
Sampled by : Warunyoo Chimphalee (1-323-4-0020)
Condition of Sample : 1x 500ml Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x [illegible], 1x 1L Plastic Bottle refrigerated
Physical Properties : yellow, some odour, some solids, no turbid

Analytical Results

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	5.5	≤500	EN0044	Rayong
COD	mg/L	1.5	25	<25	≤750	EN0046	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	EN0048	Rayong
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.8	5.5-9	EN0023	Rayong
Total Dissolved Solids at 180°C	mg/L	-	5	346	≤3000	EN0100	Rayong
Total Suspended Solids	mg/L	-	5	<5	≤200	EN0102	Rayong

Guideline : Environmental Health Impact Assessment Report of WHA Eastern Industrial Estate (Map Ta Phut)
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

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Jitsupa Pialoangsuk
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1-323-4-0004

Dej Changchon
Senior Manager
1-323-A-0001

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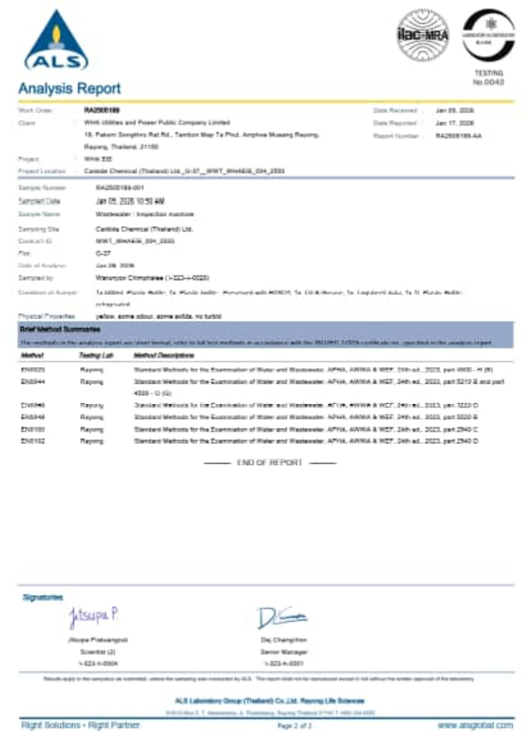

Analysis Report

TESTING No.0042

Work Order : RA2500189
Client : WHA Utilities and Power Public Company Limited
18, Pakorn Songkhro Rat Rd., Tambon Map Ta Phut, Amphoe Mueang Rayong, Rayong, Thailand, 21150
Project : WHA EIE
Project Location : Carbide Chemical (Thailand) Ltd._G-37__WWT_WHAEIE_004_2533
Date Received : Jan 05, 2026
Date Reported : Jan 17, 2026
Report Number : RA2500189-AA

Sample Number : RA2500189-001
Sampled Date : Jan 05, 2026 10:50 AM
Sample Name : Wastewater : Inspection machine
Sampling Site : Carbide Chemical (Thailand) Ltd.
Contact ID : WWT_WHAEIE_004_2533
Plot : G-37
Date of Analysis : Jan 06, 2026
Sampled by : Warunyoo Chimphalee (1-323-4-0020)
Condition of Sample : 1x 500ml Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x [illegible], 1x 1L Plastic Bottle refrigerated
Physical Properties : yellow, some odour, some solids, no 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 [illegible] specified in the analysis report

Method	Testing Lab	Method Descriptions
EN0023	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0100	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C
EN0102	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

——— END OF REPORT ———

Signatories

Jitsupa P.
Jitsupa Pialoangsuk
Scientist (2)
1-323-4-0004

Dej Changchon
Senior Manager
1-323-A-0001

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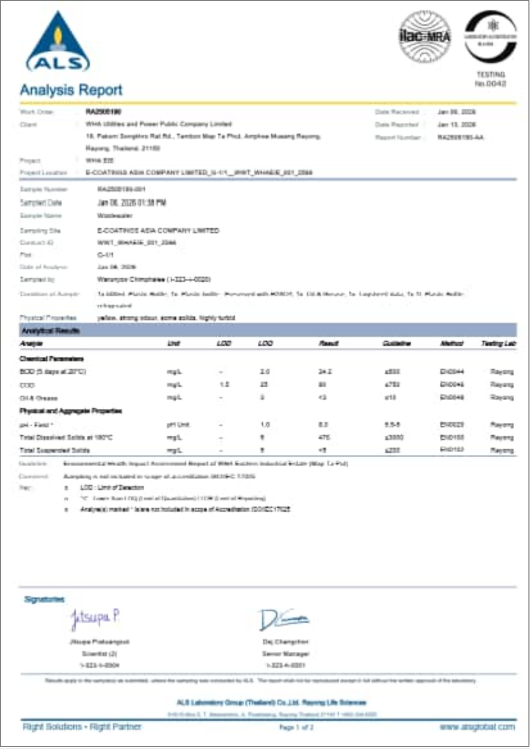

Analysis Report

TESTING
No.0042

Work Order : RA2500190
Client : WHA Utilities and Power Public Company Limited
18, Pakorn Songkhro Rat Rd., Tambon Map Ta Phut, Amphoe Mueang Rayong,
Rayong, Thailand, 21150
Project : WHA EIE
Project Location : E-COATINGS ASIA COMPANY LIMITED_G-1/1__WWT_WHAEIE_001_2566
Date Received : Jan 06, 2026
Date Reported : Jan 13, 2026
Report Number : RA2500190-AA

Sample Number RA2500190-001
Sampled Date Jan 06, 2026 01:38 PM
Sample Name Wastewater
Sampling Site E-COATINGS ASIA COMPANY LIMITED
Contract ID WWT_WHAEIE_001_2566
Plot G-1/1
Date of Analysis Jan 06, 2026
Sampled by Waranyoo Chimphalee (I-223-I-0020)
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	24.2	≤500	EN0044	Rayong
COD	mg/L	1.5	25	80	≤750	EN0046	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	EN0048	Rayong
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	8.0	5.5-9	EN0023	Rayong
Total Dissolved Solids at 180°C	mg/L	-	5	476	≤3000	EN0100	Rayong
Total Suspended Solids	mg/L	-	5	<5	≤200	EN0102	Rayong

Guideline : Environmental Health Impact Assessment Report of WHA Eastern Industrial Estate (Map Ta Phut)
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

Jitsupa P.
Jitsupa Plaksangsut
Scientist (2)
I-223-I-0304

Dej Changchon
Senior Manager
I-223-A-0001

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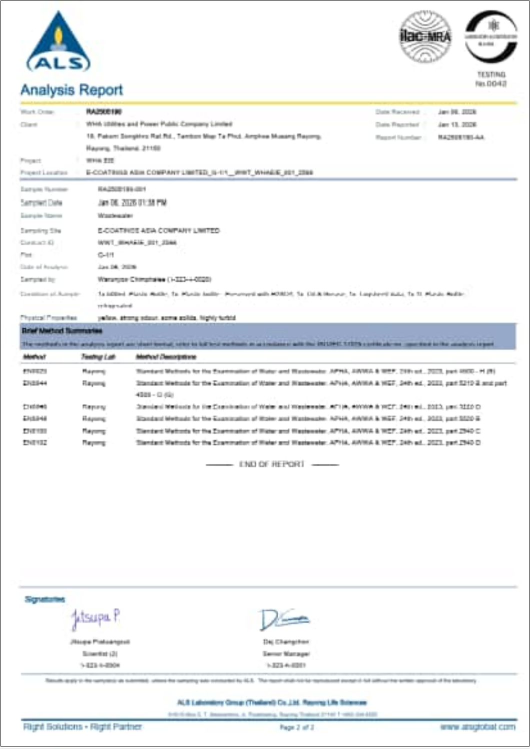

Analysis Report

TESTING
No.0042

Work Order : RA2500190
Client : WHA Utilities and Power Public Company Limited
18, Pakorn Songkhro Rat Rd., Tambon Map Ta Phut, Amphoe Mueang Rayong,
Rayong, Thailand, 21150
Project : WHA EIE
Project Location : E-COATINGS ASIA COMPANY LIMITED_G-1/1__WWT_WHAEIE_001_2566
Date Received : Jan 06, 2026
Date Reported : Jan 13, 2026
Report Number : RA2500190-AA

Sample Number RA2500190-001
Sampled Date Jan 06, 2026 01:38 PM
Sample Name Wastewater
Sampling Site E-COATINGS ASIA COMPANY LIMITED
Contract ID WWT_WHAEIE_001_2566
Plot G-1/1
Date of Analysis Jan 06, 2026
Sampled by Waranyoo Chimphalee (I-223-I-0020)
Physical Properties yellow, strong odour, some solids, highly turbid

Brief Method Summaries

Method	Testing Lab	Method Descriptions
EN0023	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0100	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C
EN0102	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

END OF REPORT

Signatories

Jitsupa P.
Jitsupa Plaksangsut
Scientist (2)
I-223-I-0304

Dej Changchon
Senior Manager
I-223-A-0001

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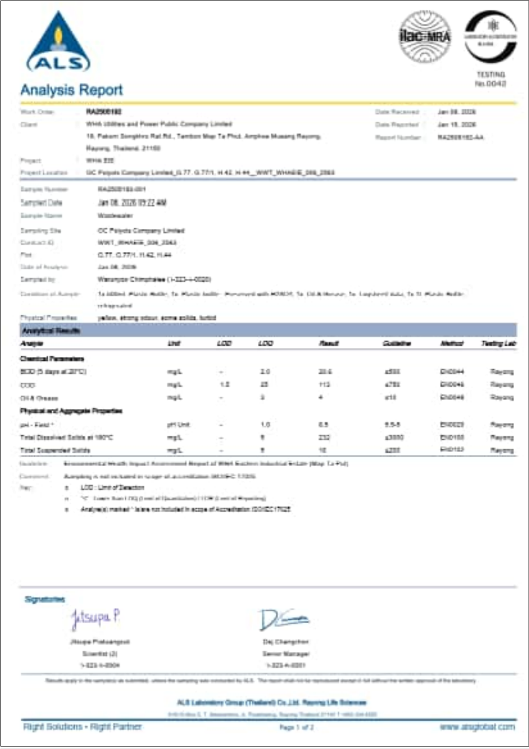

Analysis Report

TESTING
No.0042

Work Order : RA2500192
Client : WHA Utilities and Power Public Company Limited
18, Pakorn Songkhro Rat Rd., Tambon Map Ta Phut, Amphoe Mueang Rayong,
Rayong, Thailand, 21150
Project : WHA EIE
Project Location : GC Polyols Company Limited_G.77, G.77/1, H.42, H.44__WWT_WHAEIE_006_2563
Date Received : Jan 08, 2026
Date Reported : Jan 15, 2026
Report Number : RA2500192-AA

Sample Number RA2500192-001
Sampled Date Jan 08, 2026 09:22 AM
Sample Name Wastewater
Sampling Site GC Polyols Company Limited
Contract ID WWT_WHAEIE_006_2563
Plot G.77, G.77/1, H.42, H.44
Date of Analysis Jan 08, 2026
Sampled by Waranyoo Chimphalee (I-223-I-0020)
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	20.6	≤500	EN0044	Rayong
COD	mg/L	1.5	25	113	≤750	EN0046	Rayong
Oil & Grease	mg/L	-	3	4	≤10	EN0048	Rayong
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	6.5	5.5-9	EN0023	Rayong
Total Dissolved Solids at 180°C	mg/L	-	5	232	≤3000	EN0100	Rayong
Total Suspended Solids	mg/L	-	5	10	≤200	EN0102	Rayong

Guideline : Environmental Health Impact Assessment Report of WHA Eastern Industrial Estate (Map Ta Phut)
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

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Jitsupa Plaksangsut
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I-223-I-0304

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I-223-A-0001

ALS Laboratory Group (Thailand) Co.,Ltd. Rayong Life Sciences

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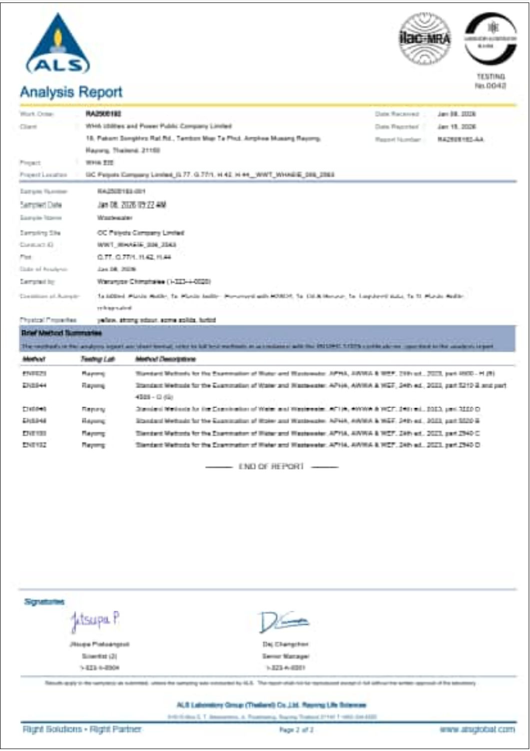

Analysis Report

TESTING
No.0042

Work Order : RA2500192
Client : WHA Utilities and Power Public Company Limited
18, Pakorn Songkhro Rat Rd., Tambon Map Ta Phut, Amphoe Mueang Rayong,
Rayong, Thailand, 21150
Project : WHA EIE
Project Location : GC Polyols Company Limited_G.77, G.77/1, H.42, H.44__WWT_WHAEIE_006_2563
Date Received : Jan 08, 2026
Date Reported : Jan 15, 2026
Report Number : RA2500192-AA

Sample Number RA2500192-001
Sampled Date Jan 08, 2026 09:22 AM
Sample Name Wastewater
Sampling Site GC Polyols Company Limited
Contract ID WWT_WHAEIE_006_2563
Plot G.77, G.77/1, H.42, H.44
Date of Analysis Jan 08, 2026
Sampled by Waranyoo Chimphalee (I-223-I-0020)
Physical Properties yellow, strong odour, some solids, turbid

Brief Method Summaries

Method	Testing Lab	Method Descriptions
EN0023	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0100	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C
EN0102	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

END OF REPORT

Signatories

Jitsupa P.
Jitsupa Plaksangsut
Scientist (2)
I-223-I-0304

Dej Changchon
Senior Manager
I-223-A-0001

ALS Laboratory Group (Thailand) Co.,Ltd. Rayong Life Sciences

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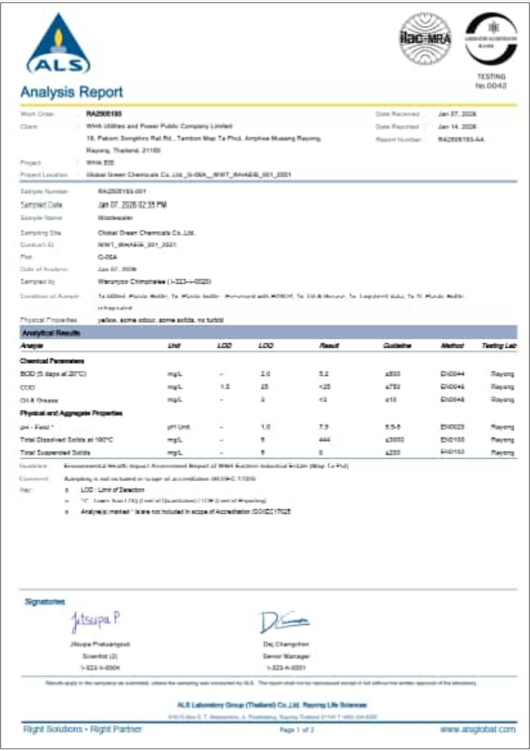

Analysis Report

TESTING
No.0042

Work Order : RA2500193
Client : WHA Utilities and Power Public Company Limited
18, Pakorn Songkhro Rat Rd., Tambon Map Ta Phut, Amphoe Mueang Rayong,
Rayong, Thailand, 21150
Project : WHA EIE
Project Location : Global Green Chemicals Co.,Ltd._G-06A__WWT_WHAEIE_001_2561
Date Received : Jan 07, 2026
Date Reported : Jan 14, 2026
Report Number : RA2500193-AA

Sample Number RA2500193-001
Sampled Date Jan 07, 2026 02:35 PM
Sample Name Wastewater
Sampling Site Global Green Chemicals Co.,Ltd.
Contract ID WWT_WHAEIE_001_2561
Plot G-06A
Date of Analysis Jan 07, 2026
Sampled by Waranyoo Chimphalee (I-223-I-0020)
Physical Properties yellow, some odour, some solids, no turbid

Analytical Results

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	5.2	≤500	EN0044	Rayong
COD	mg/L	1.5	25	<25	≤750	EN0046	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	EN0048	Rayong
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.9	5.5-9	EN0023	Rayong
Total Dissolved Solids at 180°C	mg/L	-	5	444	≤3000	EN0100	Rayong
Total Suspended Solids	mg/L	-	5	8	≤200	EN0102	Rayong

Guideline : Environmental Health Impact Assessment Report of WHA Eastern Industrial Estate (Map Ta Phut)
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

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I-223-I-0304

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Senior Manager
I-223-A-0001

ALS Laboratory Group (Thailand) Co.,Ltd. Rayong Life Sciences

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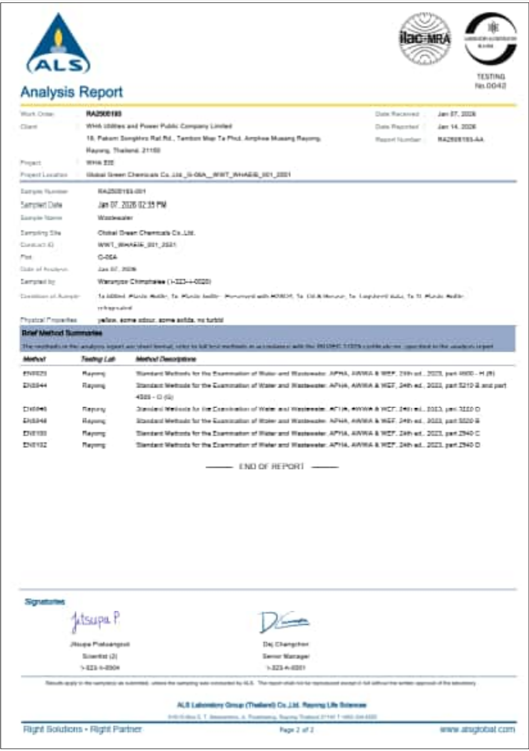

Analysis Report

TESTING
No.0042

Work Order : RA2500193
Client : WHA Utilities and Power Public Company Limited
18, Pakorn Songkhro Rat Rd., Tambon Map Ta Phut, Amphoe Mueang Rayong,
Rayong, Thailand, 21150
Project : WHA EIE
Project Location : Global Green Chemicals Co.,Ltd._G-06A__WWT_WHAEIE_001_2561
Date Received : Jan 07, 2026
Date Reported : Jan 14, 2026
Report Number : RA2500193-AA

Sample Number RA2500193-001
Sampled Date Jan 07, 2026 02:35 PM
Sample Name Wastewater
Sampling Site Global Green Chemicals Co.,Ltd.
Contract ID WWT_WHAEIE_001_2561
Plot G-06A
Date of Analysis Jan 07, 2026
Sampled by Waranyoo Chimphalee (I-223-I-0020)
Physical Properties yellow, some odour, some solids, no turbid

Brief Method Summaries

Method	Testing Lab	Method Descriptions
EN0023	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0100	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C
EN0102	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

END OF REPORT

Signatories

Jitsupa P.
Jitsupa Plaksangsut
Scientist (2)
I-223-I-0304

Dej Changchon
Senior Manager
I-223-A-0001

ALS Laboratory Group (Thailand) Co.,Ltd. Rayong Life Sciences

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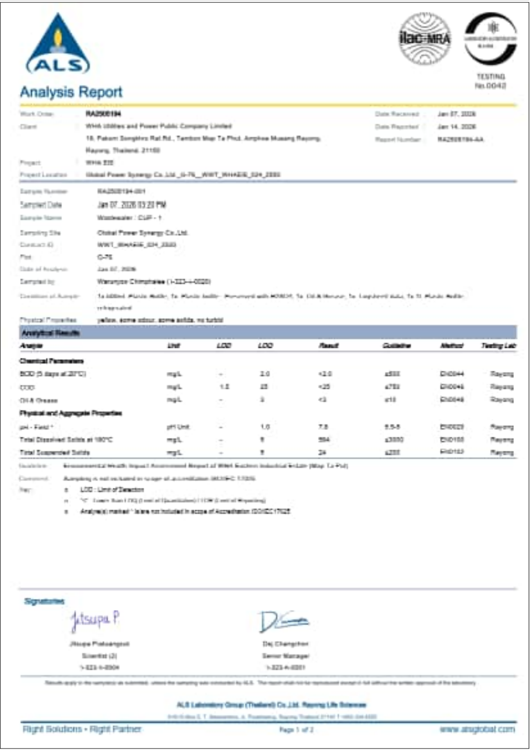

Analysis Report

TESTING
No.0042

Work Order : RA2500194
Client : WHA Utilities and Power Public Company Limited
18, Pakorn Songkhro Rat Rd., Tambon Map Ta Phut, Amphoe Mueang Rayong,
Rayong, Thailand, 21150
Project : WHA EIE
Project Location : Global Power Synergy Co.,Ltd._G-75__WWT_WHAEIE_024_2550
Date Received : Jan 07, 2026
Date Reported : Jan 14, 2026
Report Number : RA2500194-AA

Sample Number RA2500194-001
Sampled Date Jan 07, 2026 03:23 PM
Sample Name Wastewater : CUP - 1
Sampling Site Global Power Synergy Co.,Ltd.
Contract ID WWT_WHAEIE_024_2550
Plot G-75
Date of Analysis Jan 07, 2026
Sampled by Waranyoo Chimphalee (I-223-I-0020)
Physical Properties yellow, some odour, some solids, no 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	Rayong
COD	mg/L	1.5	25	<25	≤750	EN0046	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	EN0048	Rayong
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.8	5.5-9	EN0023	Rayong
Total Dissolved Solids at 180°C	mg/L	-	5	594	≤3000	EN0100	Rayong
Total Suspended Solids	mg/L	-	5	24	≤200	EN0102	Rayong

Guideline : Environmental Health Impact Assessment Report of WHA Eastern Industrial Estate (Map Ta Phut)
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

Jitsupa P.
Jitsupa Plaksangsut
Scientist (2)
I-223-I-0304

Dej Changchon
Senior Manager
I-223-A-0001

ALS Laboratory Group (Thailand) Co.,Ltd. Rayong Life Sciences

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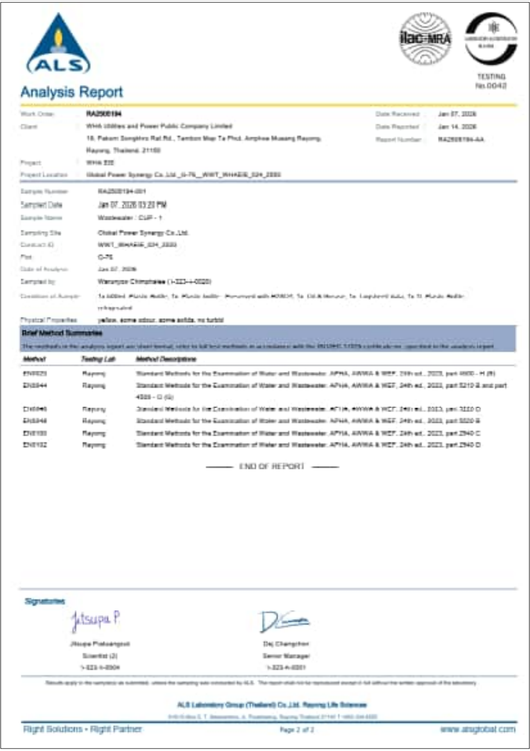

Analysis Report

TESTING
No.0042

Work Order : RA2500194
Client : WHA Utilities and Power Public Company Limited
18, Pakorn Songkhro Rat Rd., Tambon Map Ta Phut, Amphoe Mueang Rayong,
Rayong, Thailand, 21150
Project : WHA EIE
Project Location : Global Power Synergy Co.,Ltd._G-75__WWT_WHAEIE_024_2550
Date Received : Jan 07, 2026
Date Reported : Jan 14, 2026
Report Number : RA2500194-AA

Sample Number RA2500194-001
Sampled Date Jan 07, 2026 03:23 PM
Sample Name Wastewater : CUP - 1
Sampling Site Global Power Synergy Co.,Ltd.
Contract ID WWT_WHAEIE_024_2550
Plot G-75
Date of Analysis Jan 07, 2026
Sampled by Waranyoo Chimphalee (I-223-I-0020)
Physical Properties yellow, some odour, some solids, no turbid

Brief Method Summaries

Method	Testing Lab	Method Descriptions
EN0023	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0100	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C
EN0102	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

END OF REPORT

Signatories

Jitsupa P.
Jitsupa Plaksangsut
Scientist (2)
I-223-I-0304

Dej Changchon
Senior Manager
I-223-A-0001

ALS Laboratory Group (Thailand) Co.,Ltd. Rayong Life Sciences

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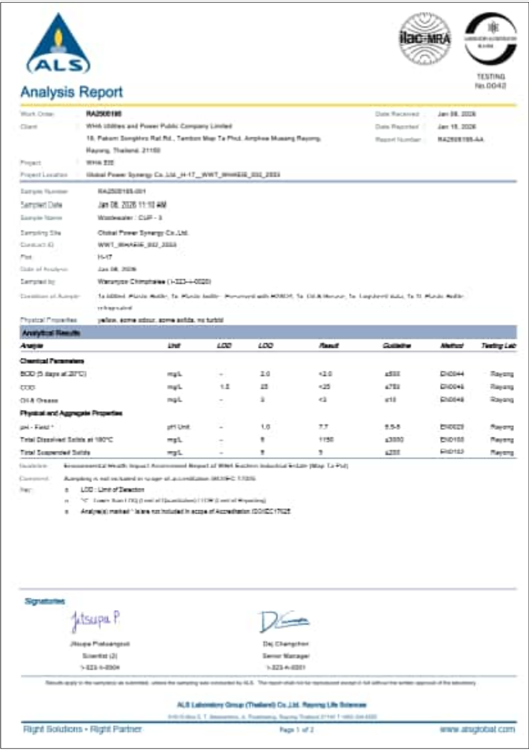


Analysis Report

TESTING
No.0042

Work Order : RA2500195
Client : WHA Utilities and Power Public Company Limited
18, Pakorn Songkhro Rat Rd., Tambon Map Ta Phut, Amphoe Mueang Rayong,
Rayong, Thailand, 21150
Project : WHA EIE
Project Location : Global Power Synergy Co.,Ltd._H-17__WWT_WHAEIE_002_2553
Date Received : Jan 08, 2026
Date Reported : Jan 15, 2026
Report Number : RA2500195-AA

Sample Number RA2500195-001
Sampled Date Jan 08, 2026 11:10 AM
Sample Name Wastewater : CUP - 3
Sampling Site Global Power Synergy Co.,Ltd.
Contract ID WWT_WHAEIE_002_2553
Plot H-17
Date of Analysis Jan 08, 2026
Sampled by Waranyoo Chimphalee (I-223-I-0020)
Physical Properties yellow, some odour, some solids, no 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	Rayong
COD	mg/L	1.5	25	<25	≤750	EN0046	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	EN0048	Rayong
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.7	5.5-9	EN0023	Rayong
Total Dissolved Solids at 180°C	mg/L	-	5	1150	≤3000	EN0100	Rayong
Total Suspended Solids	mg/L	-	5	5	≤200	EN0102	Rayong

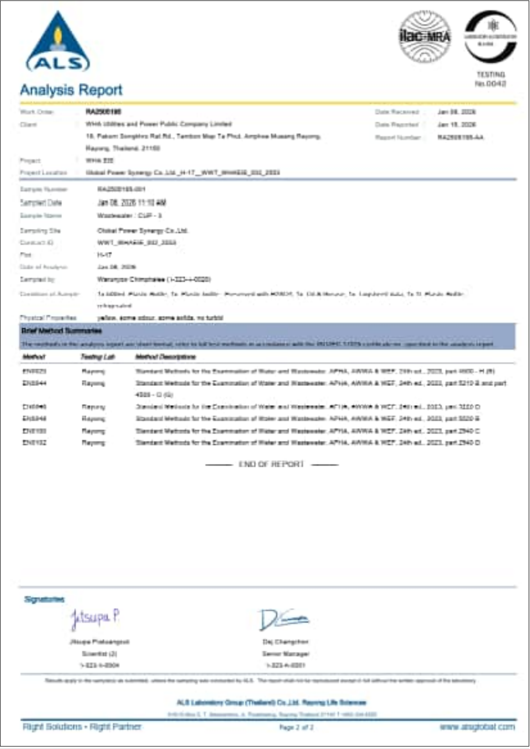
Guideline : Environmental Health Impact Assessment Report of WHA Eastern Industrial Estate (Map Ta Phut)
Comment : Sampling is not included in scope of accreditation ISO/IEC 17025
Key :
- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC17025

Signatories

Jitsupa P.
Jitsupa Plaksangsut
Scientist (2)
I-223-I-0304

Dej Changchon
Senior Manager
I-223-A-0001

ALS Laboratory Group (Thailand) Co.,Ltd. Rayong Life Sciences



Analysis Report

TESTING No.0042

Work Order: RA2500185
Client: WHA Utilities and Power Public Company Limited
Date Received: Jan 08, 2026
Date Reported: Jan 15, 2026
Report Number: RA2500185-AA
Project: WHA EIE
Project Location: Global Power Synergy Co.,Ltd._H-17__WWT_WHAEIE_002_2553

Sample Number: RA2500185-001
Sampled Date: Jan 08, 2026 11:10 AM
Sample Name: Wastewater : CUP - 3
Sampling Site: Global Power Synergy Co.,Ltd.
Plot: H-17
Sampled by: Waranyoo Chimphalee
Physical Properties: yellow, some odour, some solids, no turbid

Brief Method Summaries

Method	Testing Lab	Method Descriptions
EN0023	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0100	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C
EN0102	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

END OF REPORT

Signatories

Jitsupa P.
Scientist (2)

Senior Manager

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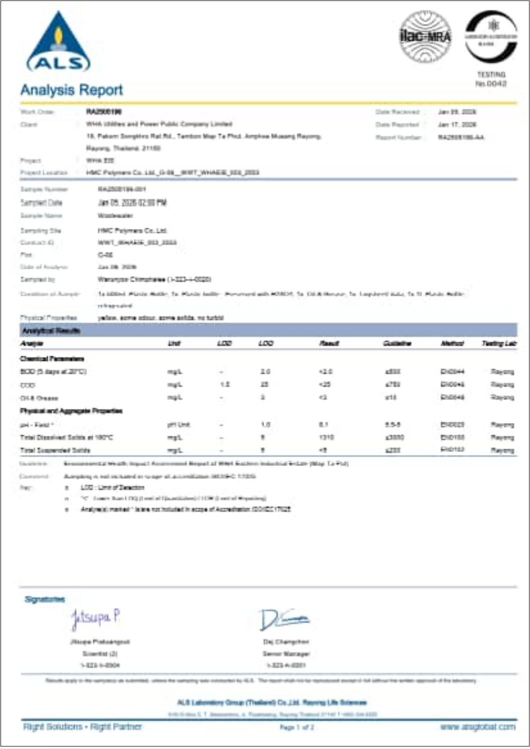

Analysis Report

TESTING No.0042

Work Order: RA2500186
Client: WHA Utilities and Power Public Company Limited
Date Received: Jan 09, 2026
Date Reported: Jan 17, 2026
Report Number: RA2500186-AA
Project: WHA EIE
Project Location: HMC Polymers Co. Ltd._G-08__WWT_WHAEIE_003_2553

Sample Number: RA2500186-001
Sampled Date: Jan 05, 2026 02:00 PM
Sample Name: Wastewater
Sampling Site: HMC Polymers Co.,Ltd.
Plot: G-08
Sampled by: Waranyoo Chimphalee
Physical Properties: yellow, some odour, some solids, no 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	Rayong
COD	mg/L	1.5	25	<25	≤750	EN0046	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	EN0048	Rayong
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	8.1	5.5-9	EN0023	Rayong
Total Dissolved Solids at 180°C	mg/L	-	5	1310	≤3000	EN0100	Rayong
Total Suspended Solids	mg/L	-	5	<5	≤200	EN0102	Rayong

Key: LOD : Limit of Detection
Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC17025

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Jitsupa P.
Scientist (2)

Senior Manager

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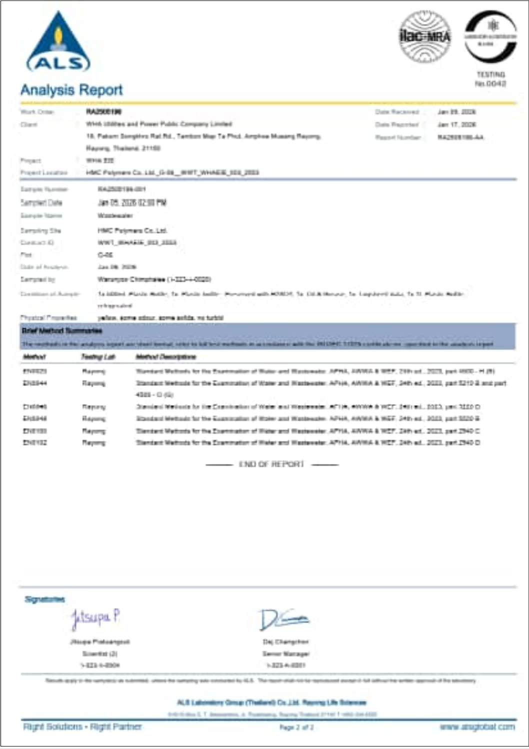

Analysis Report

TESTING No.0042

Work Order: RA2500186
Client: WHA Utilities and Power Public Company Limited
Date Received: Jan 09, 2026
Date Reported: Jan 17, 2026
Report Number: RA2500186-AA
Project: WHA EIE
Project Location: HMC Polymers Co. Ltd._G-08__WWT_WHAEIE_003_2553

Sample Number: RA2500186-001
Sampled Date: Jan 05, 2026 02:00 PM
Sample Name: Wastewater
Sampling Site: HMC Polymers Co.,Ltd.
Plot: G-08
Sampled by: Waranyoo Chimphalee
Physical Properties: yellow, some odour, some solids, no turbid

Brief Method Summaries

Method	Testing Lab	Method Descriptions
EN0023	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0100	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C
EN0102	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

END OF REPORT

Signatories

Jitsupa P.
Scientist (2)

Senior Manager

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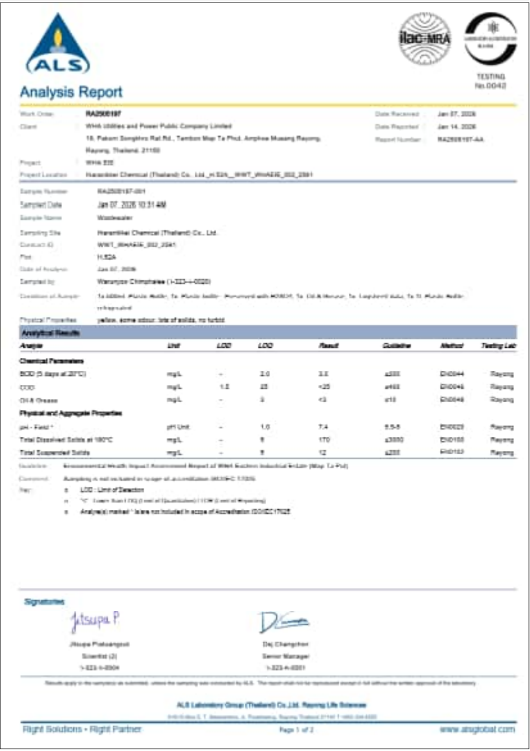

Analysis Report

TESTING No.0042

Work Order: RA2500187
Client: WHA Utilities and Power Public Company Limited
Date Received: Jan 07, 2026
Date Reported: Jan 14, 2026
Report Number: RA2500187-AA
Project: WHA EIE
Project Location: Haramkhei Chemical (Thailand) Co., Ltd._H.52A__WWT_WHAEIE_002_2561

Sample Number: RA2500187-001
Sampled Date: Jan 07, 2026 10:31 AM
Sample Name: Wastewater
Sampling Site: Haramkhei Chemical (Thailand) Co., Ltd.
Plot: H.52A
Sampled by: Waranyoo Chimphalee
Physical Properties: yellow, some odour, lots of solids, no turbid

Analytical Results

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	3.5	≤500	EN0044	Rayong
COD	mg/L	1.5	25	<25	≤400	EN0046	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	EN0048	Rayong
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.4	5.5-9	EN0023	Rayong
Total Dissolved Solids at 180°C	mg/L	-	5	170	≤3000	EN0100	Rayong
Total Suspended Solids	mg/L	-	5	12	≤200	EN0102	Rayong

Key: LOD : Limit of Detection
Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC17025

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Jitsupa P.
Scientist (2)

Senior Manager

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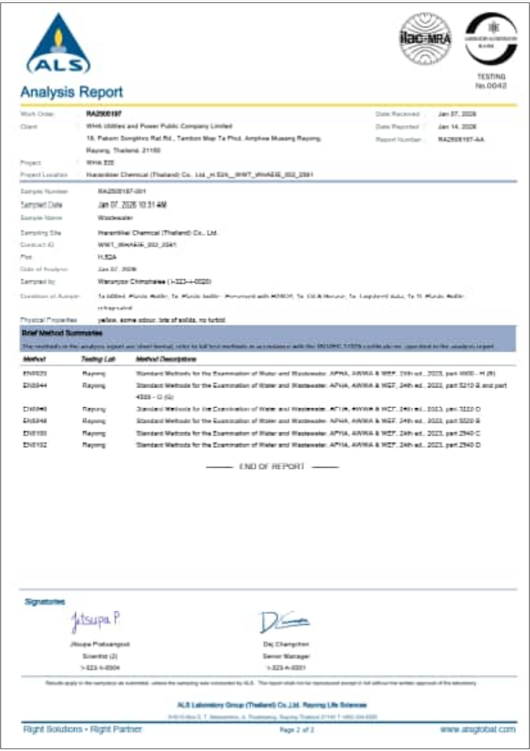

Analysis Report

TESTING No.0042

Work Order: RA2500187
Client: WHA Utilities and Power Public Company Limited
Date Received: Jan 07, 2026
Date Reported: Jan 14, 2026
Report Number: RA2500187-AA
Project: WHA EIE
Project Location: Haramkhei Chemical (Thailand) Co., Ltd._H.52A__WWT_WHAEIE_002_2561

Sample Number: RA2500187-001
Sampled Date: Jan 07, 2026 10:31 AM
Sample Name: Wastewater
Sampling Site: Haramkhei Chemical (Thailand) Co., Ltd.
Plot: H.52A
Sampled by: Waranyoo Chimphalee
Physical Properties: yellow, some odour, lots of solids, no turbid

Brief Method Summaries

Method	Testing Lab	Method Descriptions
EN0023	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0100	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C
EN0102	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

END OF REPORT

Signatories

Jitsupa P.
Scientist (2)

Senior Manager

ALS Laboratory Group (Thailand) Co.,Ltd. Rayong Life Sciences

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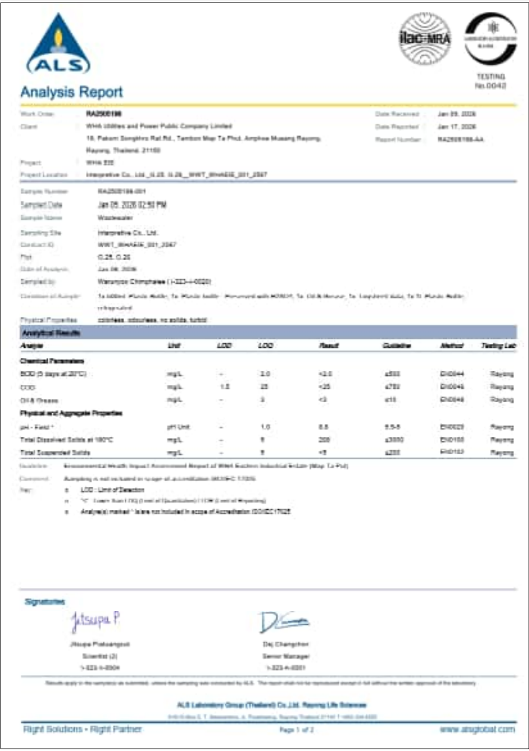

Analysis Report

TESTING No.0042

Work Order: RA2500188
Client: WHA Utilities and Power Public Company Limited
Date Received: Jan 09, 2026
Date Reported: Jan 17, 2026
Report Number: RA2500188-AA
Project: WHA EIE
Project Location: Interpretive Co., Ltd._0.25, 0.26__WWT_WHAEIE_001_2567

Sample Number: RA2500188-001
Sampled Date: Jan 05, 2026 02:50 PM
Sample Name: Wastewater
Sampling Site: Interpretive Co., Ltd.
Plot: 0.25, 0.26
Sampled by: Waranyoo Chimphalee
Physical Properties: colorless, odourless, no 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	Rayong
COD	mg/L	1.5	25	<25	≤750	EN0046	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	EN0048	Rayong
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	8.8	5.5-9	EN0023	Rayong
Total Dissolved Solids at 180°C	mg/L	-	5	208	≤3000	EN0100	Rayong
Total Suspended Solids	mg/L	-	5	<5	≤200	EN0102	Rayong

Key: LOD : Limit of Detection
Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC17025

Signatories

Jitsupa P.
Scientist (2)

Senior Manager

ALS Laboratory Group (Thailand) Co.,Ltd. Rayong Life Sciences

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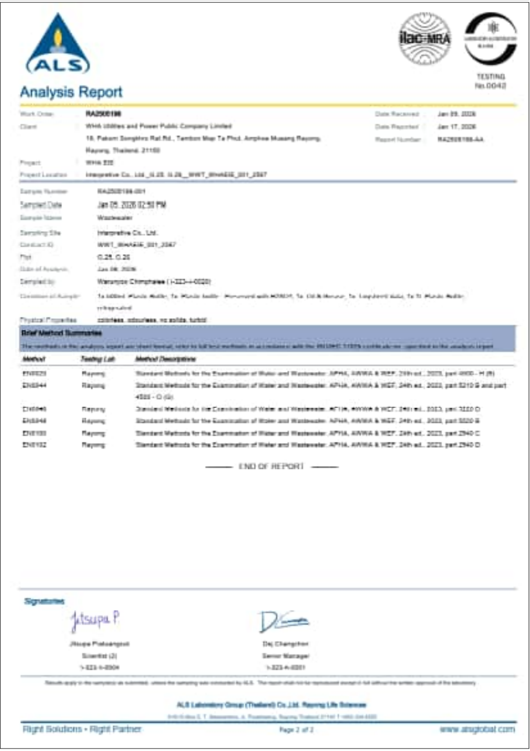

Analysis Report

TESTING No.0042

Work Order: RA2500188
Client: WHA Utilities and Power Public Company Limited
Date Received: Jan 09, 2026
Date Reported: Jan 17, 2026
Report Number: RA2500188-AA
Project: WHA EIE
Project Location: Interpretive Co., Ltd._0.25, 0.26__WWT_WHAEIE_001_2567

Sample Number: RA2500188-001
Sampled Date: Jan 05, 2026 02:50 PM
Sample Name: Wastewater
Sampling Site: Interpretive Co., Ltd.
Plot: 0.25, 0.26
Sampled by: Waranyoo Chimphalee
Physical Properties: colorless, odourless, no solids, turbid

Brief Method Summaries

Method	Testing Lab	Method Descriptions
EN0023	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0100	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C
EN0102	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

END OF REPORT

Signatories

Jitsupa P.
Scientist (2)

Senior Manager

ALS Laboratory Group (Thailand) Co.,Ltd. Rayong Life Sciences

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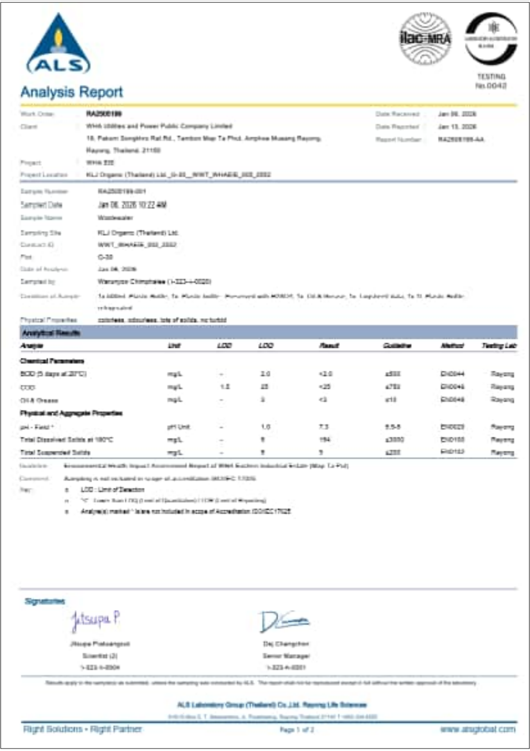

Analysis Report

TESTING No.0042

Work Order: RA2500189
Client: WHA Utilities and Power Public Company Limited
Date Received: Jan 06, 2026
Date Reported: Jan 13, 2026
Report Number: RA2500189-AA
Project: WHA EIE
Project Location: KLJ Organic (Thailand) Ltd._G-30__WWT_WHAEIE_003_2552

Sample Number: RA2500189-001
Sampled Date: Jan 06, 2026 10:22 AM
Sample Name: Wastewater
Sampling Site: KLJ Organic (Thailand) Ltd.
Plot: G-30
Sampled by: Waranyoo Chimphalee
Physical Properties: colorless, odourless, lots of solids, no 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	Rayong
COD	mg/L	1.5	25	<25	≤750	EN0046	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	EN0048	Rayong
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.3	5.5-9	EN0023	Rayong
Total Dissolved Solids at 180°C	mg/L	-	5	194	≤3000	EN0100	Rayong
Total Suspended Solids	mg/L	-	5	5	≤200	EN0102	Rayong

Key: LOD : Limit of Detection
Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC17025

Signatories

Jitsupa P.
Scientist (2)

Senior Manager

ALS Laboratory Group (Thailand) Co.,Ltd. Rayong Life Sciences

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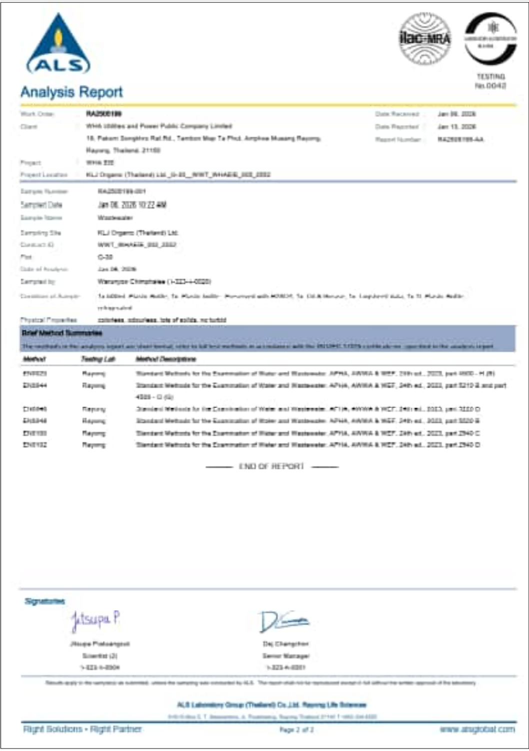

Analysis Report

TESTING No.0042

Work Order: RA2500189
Client: WHA Utilities and Power Public Company Limited
Date Received: Jan 06, 2026
Date Reported: Jan 13, 2026
Report Number: RA2500189-AA
Project: WHA EIE
Project Location: KLJ Organic (Thailand) Ltd._G-30__WWT_WHAEIE_003_2552

Sample Number: RA2500189-001
Sampled Date: Jan 06, 2026 10:22 AM
Sample Name: Wastewater
Sampling Site: KLJ Organic (Thailand) Ltd.
Plot: G-30
Sampled by: Waranyoo Chimphalee
Physical Properties: colorless, odourless, lots of solids, no turbid

Brief Method Summaries

Method	Testing Lab	Method Descriptions
EN0023	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0100	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C
EN0102	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

END OF REPORT

Signatories

Jitsupa P.
Scientist (2)

Senior Manager

ALS Laboratory Group (Thailand) Co.,Ltd. Rayong Life Sciences

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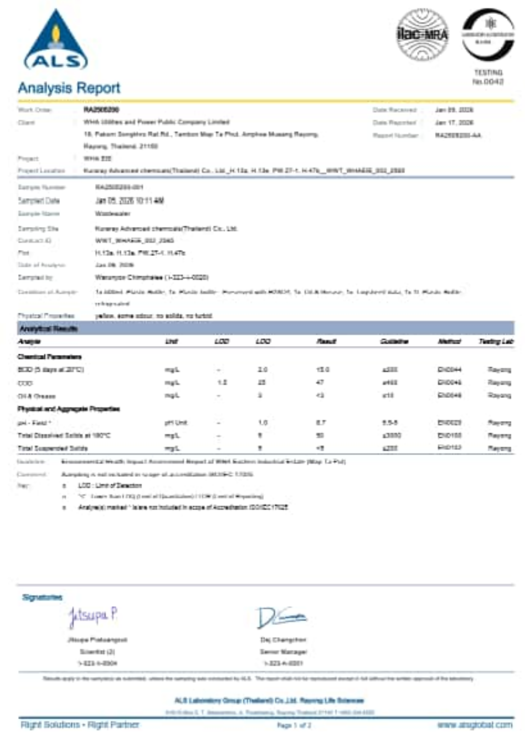

Analysis Report

TESTING No.0042

Sample Name: Wastewater

Physical Properties: yellow, some odour, no solids, no 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	Rayong
COD	mg/L	1.5	25	47	≤400	EN0046	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	EN0048	Rayong
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	8.7	5.5-9	EN0023	Rayong
Total Dissolved Solids at 180°C	mg/L	-	5	50	≤3000	EN0100	Rayong
Total Suspended Solids	mg/L	-	5	<5	≤200	EN0102	Rayong

LOD : Limit of Detection

Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC17025

Signatories

Jitsupa P.

Scientist (2)

Senior Manager

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Analysis Report

TESTING No.0042

Sample Name: Wastewater

Physical Properties: yellow, some odour, no solids, no turbid

Brief Method Summaries

Method	Testing Lab	Method Descriptions
EN0023	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0100	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C
EN0102	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

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Jitsupa P.

Scientist (2)

Senior Manager

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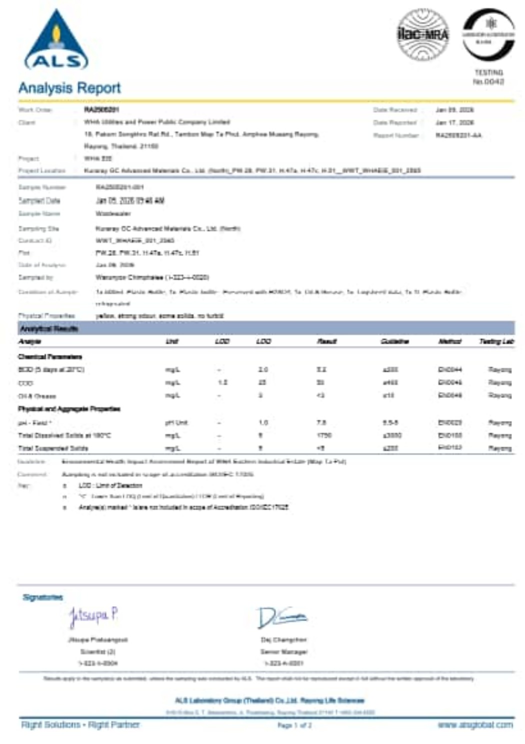

Analysis Report

TESTING No.0042

Sample Name: Wastewater

Physical Properties: yellow, strong odour, some solids, no turbid

Analytical Results

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	5.2	≤500	EN0044	Rayong
COD	mg/L	1.5	25	50	≤400	EN0046	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	EN0048	Rayong
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.8	5.5-9	EN0023	Rayong
Total Dissolved Solids at 180°C	mg/L	-	5	1750	≤3000	EN0100	Rayong
Total Suspended Solids	mg/L	-	5	<5	≤200	EN0102	Rayong

LOD : Limit of Detection

Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC17025

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Analysis Report

TESTING No.0042

Sample Name: Wastewater

Physical Properties: yellow, strong odour, some solids, no turbid

Brief Method Summaries

Method	Testing Lab	Method Descriptions
EN0023	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0100	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C
EN0102	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

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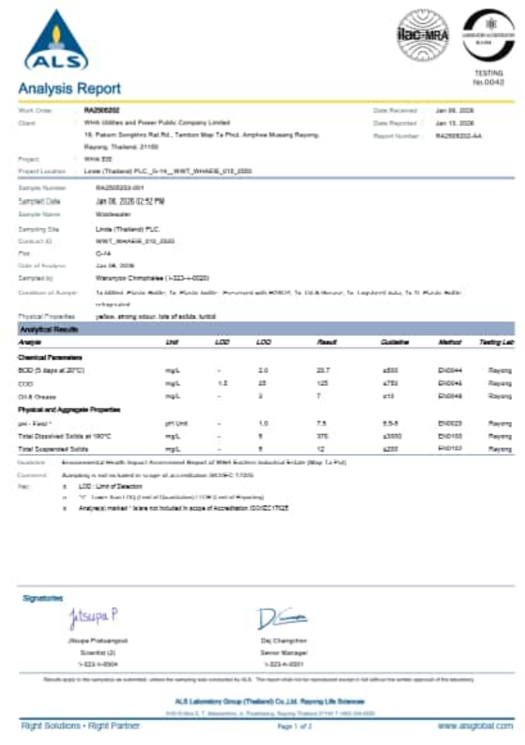

Analysis Report

TESTING No.0042

Sample Name: Wastewater

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	23.7	≤500	EN0044	Rayong
COD	mg/L	1.5	25	125	≤750	EN0046	Rayong
Oil & Grease	mg/L	-	3	7	≤10	EN0048	Rayong
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.5	5.5-9	EN0023	Rayong
Total Dissolved Solids at 180°C	mg/L	-	5	376	≤3000	EN0100	Rayong
Total Suspended Solids	mg/L	-	5	12	≤200	EN0102	Rayong

LOD : Limit of Detection

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Analysis Report

TESTING No.0042

Sample Name: Wastewater

Physical Properties: yellow, strong odour, lots of solids, turbid

Brief Method Summaries

Method	Testing Lab	Method Descriptions
EN0023	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0100	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C
EN0102	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

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Senior Manager

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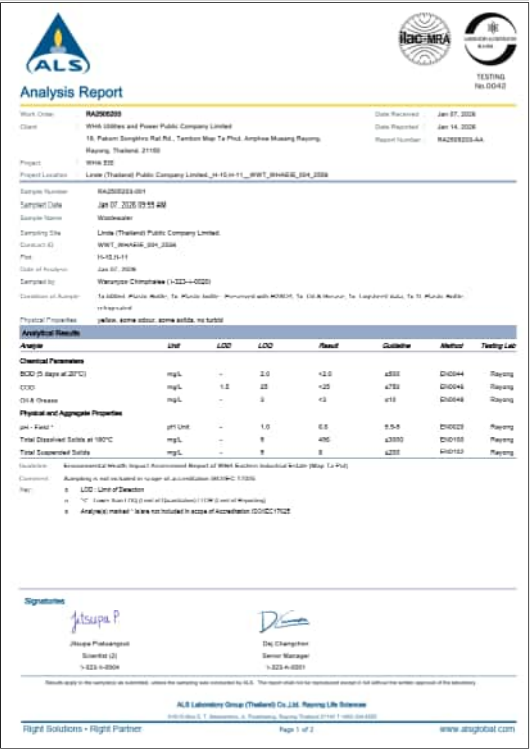

Analysis Report

TESTING No.0042

Sample Name: Wastewater

Physical Properties: yellow, some odour, some solids, no 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	Rayong
COD	mg/L	1.5	25	<25	≤750	EN0046	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	EN0048	Rayong
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	6.6	5.5-9	EN0023	Rayong
Total Dissolved Solids at 180°C	mg/L	-	5	496	≤3000	EN0100	Rayong
Total Suspended Solids	mg/L	-	5	8	≤200	EN0102	Rayong

LOD : Limit of Detection

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Analysis Report

TESTING No.0042

Sample Name: Wastewater

Physical Properties: yellow, some odour, some solids, no turbid

Brief Method Summaries

Method	Testing Lab	Method Descriptions
EN0023	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0100	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C
EN0102	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

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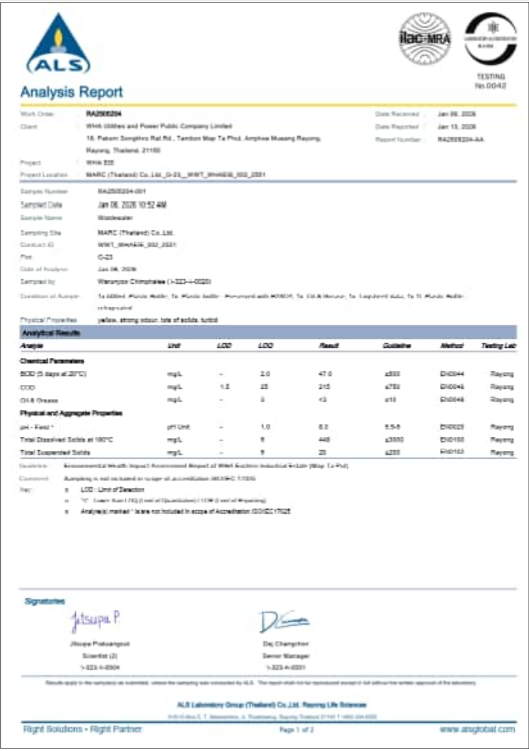

Analysis Report

TESTING No.0042

Sample Name: Wastewater

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	47.0	≤500	EN0044	Rayong
COD	mg/L	1.5	25	215	≤750	EN0046	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	EN0048	Rayong
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	8.0	5.5-9	EN0023	Rayong
Total Dissolved Solids at 180°C	mg/L	-	5	448	≤3000	EN0100	Rayong
Total Suspended Solids	mg/L	-	5	20	≤200	EN0102	Rayong

LOD : Limit of Detection

Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC17025

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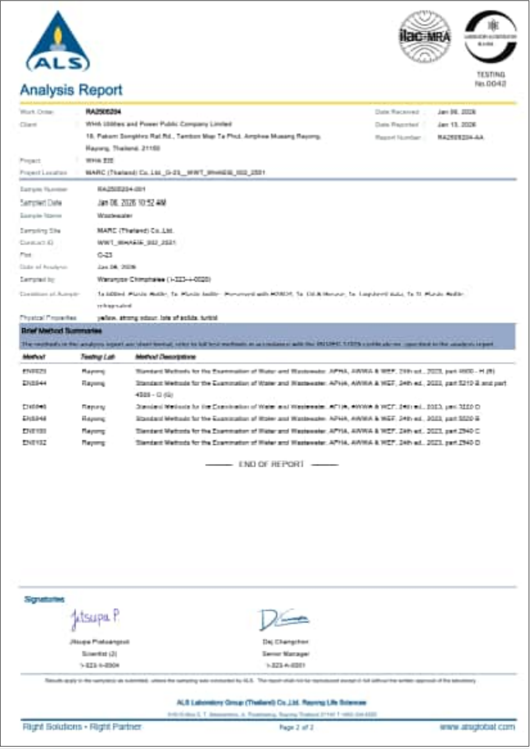

Analysis Report

TESTING No.0042

Work Order: RA2506204
Client: WHA Utilities and Power Public Company Limited
18, Pakorn Songkhro Rat Rd., Tambon Map Ta Phut, Amphoe Mueang Rayong, Rayong, Thailand, 21150
Project: WHA EIE
Project Location: MARC (Thailand) Co.,Ltd._G-23__WWT_WHAEIE_002_2501
Date Received: Jan 06, 2026
Date Reported: Jan 13, 2026
Report Number: RA2506204-AA

Sample Number: RA2506204-001
Sampled Date: Jan 06, 2026 10:52 AM
Sample Name: Wastewater
Sampling Site: MARC (Thailand) Co.,Ltd.
Contact ID: WWT_WHAEIE_002_2501
Plot: G-23
Date of Analysis: Jan 06, 2026
Sampled by: Waranyoo Chimphalee (1-323-4-0020)
Physical Properties: yellow, strong odour, lots of solids, turbid

Brief Method Summaries

Method	Testing Lab	Method Descriptions
EN0023	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0100	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C
EN0102	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

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Scientist (2)

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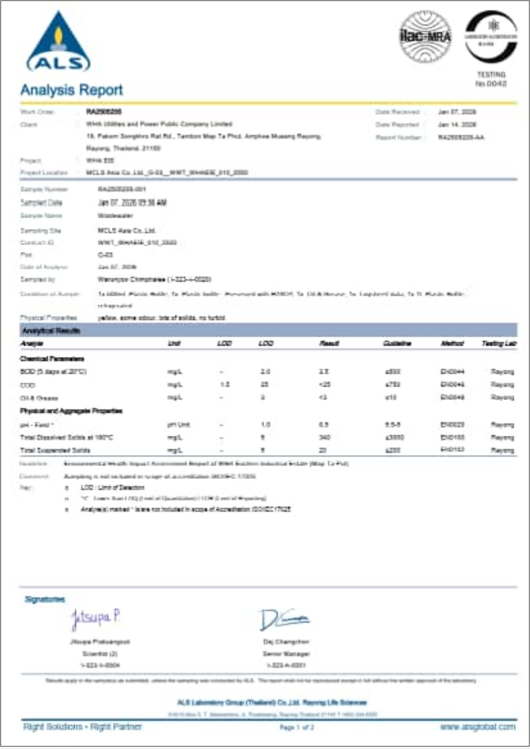

Analysis Report

TESTING No.0042

Work Order: RA2506205
Client: WHA Utilities and Power Public Company Limited
18, Pakorn Songkhro Rat Rd., Tambon Map Ta Phut, Amphoe Mueang Rayong, Rayong, Thailand, 21150
Project: WHA EIE
Project Location: MCLS Asia Co.,Ltd._G-03__WWT_WHAEIE_010_2500
Date Received: Jan 07, 2026
Date Reported: Jan 14, 2026
Report Number: RA2506205-AA

Sample Number: RA2506205-001
Sampled Date: Jan 07, 2026 09:38 AM
Sample Name: Wastewater
Sampling Site: MCLS Asia Co.,Ltd.
Contact ID: WWT_WHAEIE_010_2500
Plot: G-03
Date of Analysis: Jan 07, 2026
Sampled by: Waranyoo Chimphalee (1-323-4-0020)
Physical Properties: yellow, some odour, lots of solids, no turbid

Analytical Results

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	2.5	≤500	EN0044	Rayong
COD	mg/L	1.5	25	<25	≤750	EN0046	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	EN0048	Rayong
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	6.5	5.5-8	EN0023	Rayong
Total Dissolved Solids at 180°C	mg/L	-	5	340	≤3000	EN0100	Rayong
Total Suspended Solids	mg/L	-	5	20	≤200	EN0102	Rayong

Key: LOD : Limit of Detection
Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025

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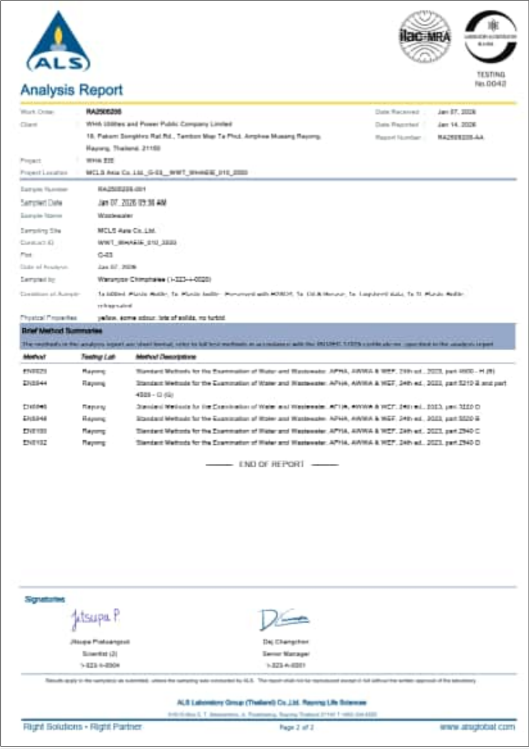

Analysis Report

TESTING No.0042

Work Order: RA2506205
Client: WHA Utilities and Power Public Company Limited
18, Pakorn Songkhro Rat Rd., Tambon Map Ta Phut, Amphoe Mueang Rayong, Rayong, Thailand, 21150
Project: WHA EIE
Project Location: MCLS Asia Co.,Ltd._G-03__WWT_WHAEIE_010_2500
Date Received: Jan 07, 2026
Date Reported: Jan 14, 2026
Report Number: RA2506205-AA

Sample Number: RA2506205-001
Sampled Date: Jan 07, 2026 09:38 AM
Sample Name: Wastewater
Sampling Site: MCLS Asia Co.,Ltd.
Plot: G-03
Sampled by: Waranyoo Chimphalee (1-323-4-0020)
Physical Properties: yellow, some odour, lots of solids, no turbid

Brief Method Summaries

Method	Testing Lab	Method Descriptions
EN0023	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0100	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C
EN0102	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

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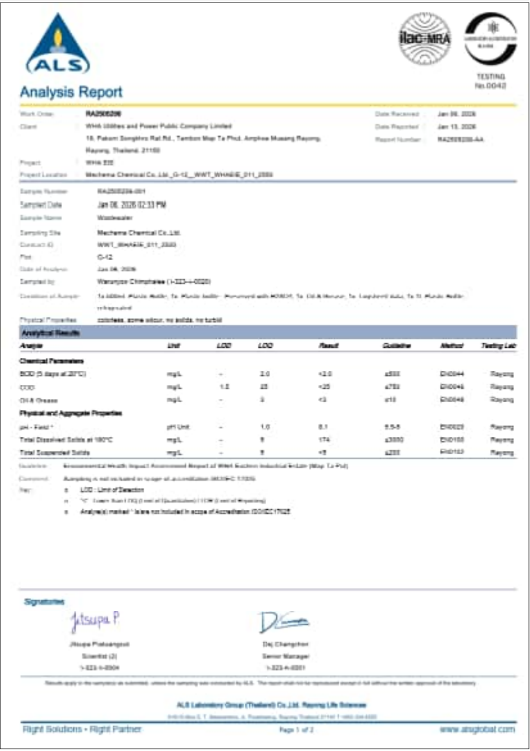

Analysis Report

TESTING No.0042

Work Order: RA2506206
Client: WHA Utilities and Power Public Company Limited
18, Pakorn Songkhro Rat Rd., Tambon Map Ta Phut, Amphoe Mueang Rayong, Rayong, Thailand, 21150
Project: WHA EIE
Project Location: Mechema Chemical Co.,Ltd._G-12__WWT_WHAEIE_011_2500
Date Received: Jan 06, 2026
Date Reported: Jan 13, 2026
Report Number: RA2506206-AA

Sample Number: RA2506206-001
Sampled Date: Jan 06, 2026 02:33 PM
Sample Name: Wastewater
Sampling Site: Mechema Chemical Co.,Ltd.
Contact ID: WWT_WHAEIE_011_2500
Plot: G-12
Date of Analysis: Jan 06, 2026
Sampled by: Waranyoo Chimphalee (1-323-4-0020)
Physical Properties: colorless, some odour, no solids, no 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	Rayong
COD	mg/L	1.5	25	<25	≤750	EN0046	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	EN0048	Rayong
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	8.1	5.5-8	EN0023	Rayong
Total Dissolved Solids at 180°C	mg/L	-	5	174	≤3000	EN0100	Rayong
Total Suspended Solids	mg/L	-	5	<5	≤200	EN0102	Rayong

Key: LOD : Limit of Detection
Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025

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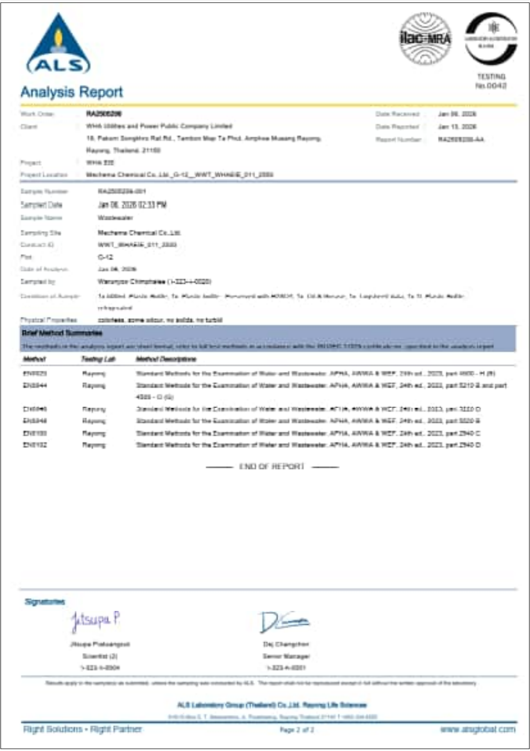

Analysis Report

TESTING No.0042

Work Order: RA2506206
Client: WHA Utilities and Power Public Company Limited
Project: WHA EIE
Project Location: Mechema Chemical Co.,Ltd._G-12__WWT_WHAEIE_011_2500
Date Received: Jan 06, 2026
Date Reported: Jan 13, 2026
Report Number: RA2506206-AA

Sample Number: RA2506206-001
Sampled Date: Jan 06, 2026 02:33 PM
Sample Name: Wastewater
Sampling Site: Mechema Chemical Co.,Ltd.
Plot: G-12
Sampled by: Waranyoo Chimphalee (1-323-4-0020)
Physical Properties: colorless, some odour, no solids, no turbid

Brief Method Summaries

Method	Testing Lab	Method Descriptions
EN0023	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0100	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C
EN0102	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

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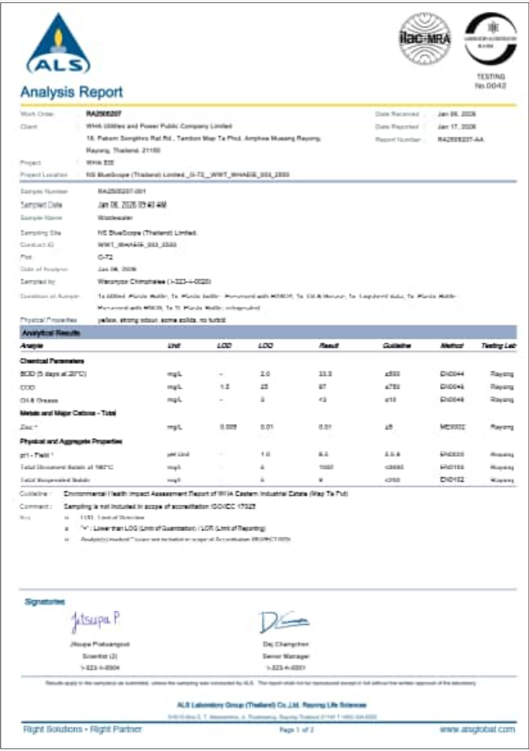

Analysis Report

TESTING No.0042

Work Order: RA2506207
Client: WHA Utilities and Power Public Company Limited
18, Pakorn Songkhro Rat Rd., Tambon Map Ta Phut, Amphoe Mueang Rayong, Rayong, Thailand, 21150
Project: WHA EIE
Project Location: NS BlueScope (Thailand) Limited._G-72__WWT_WHAEIE_003_2500
Date Received: Jan 06, 2026
Date Reported: Jan 17, 2026
Report Number: RA2506207-AA

Sample Number: RA2506207-001
Sampled Date: Jan 06, 2026 09:40 AM
Sample Name: Wastewater
Sampling Site: NS BlueScope (Thailand) Limited.
Contact ID: WWT_WHAEIE_003_2500
Plot: G-72
Date of Analysis: Jan 06, 2026
Sampled by: Waranyoo Chimphalee (1-323-4-0020)
Physical Properties: yellow, strong odour, some solids, no turbid

Analytical Results

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	23.3	≤500	EN0044	Rayong
COD	mg/L	1.5	25	87	≤750	EN0046	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	EN0048	Rayong
Metals and Major Cations - Total							
Zinc *	mg/L	0.005	0.01	0.01	≤5	ME0002	Rayong
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	8.5	5.5-8	EN0023	Rayong
Total Dissolved Solids at 180°C	mg/L	-	5	1022	≤3000	EN0100	Rayong
Total Suspended Solids	mg/L	-	5	9	≤200	EN0102	Rayong

Guideline: Environmental Health Impact Assessment Report of WHA Eastern Industrial Estate (Map Ta Phut)
Comment: Sampling is not included in scope of accreditation ISO/IEC 17025
Key: "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)

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Jitsupa P.

Scientist (2)

Senior Manager

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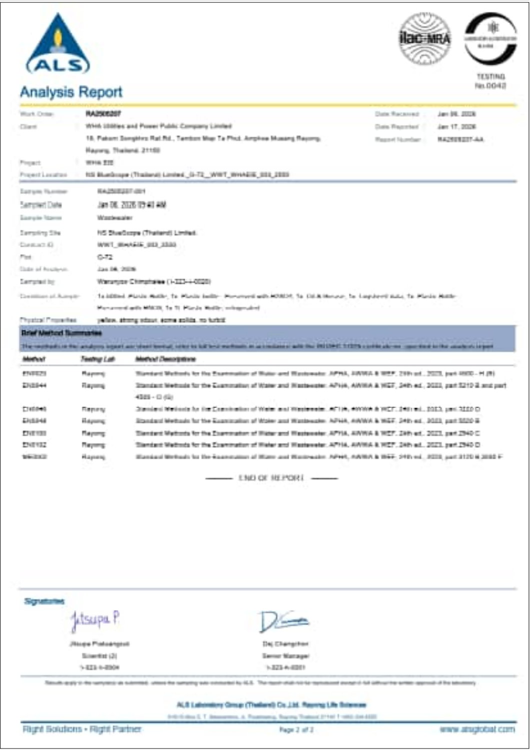

Analysis Report

TESTING No.0042

Work Order: RA2506207
Client: WHA Utilities and Power Public Company Limited
Project: WHA EIE
Project Location: NS BlueScope (Thailand) Limited._G-72__WWT_WHAEIE_003_2500
Date Received: Jan 06, 2026
Date Reported: Jan 17, 2026
Report Number: RA2506207-AA

Sample Number: RA2506207-001
Sampled Date: Jan 06, 2026 09:40 AM
Sample Name: Wastewater
Sampling Site: NS BlueScope (Thailand) Limited.
Plot: G-72
Sampled by: Waranyoo Chimphalee (1-323-4-0020)
Physical Properties: yellow, strong odour, some solids, no turbid

Brief Method Summaries

Method	Testing Lab	Method Descriptions
EN0023	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0100	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C
EN0102	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D
ME0002	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3120 B,3030 F

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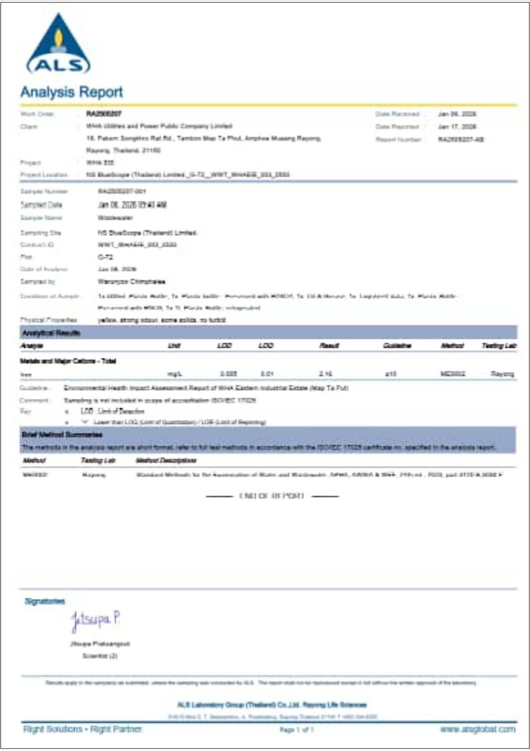

Analysis Report

Work Order: RA2506207
Client: WHA Utilities and Power Public Company Limited
18, Pakorn Songkhro Rat Rd., Tambon Map Ta Phut, Amphoe Mueang Rayong, Rayong, Thailand, 21150
Project: WHA EIE
Project Location: NS BlueScope (Thailand) Limited._G-72__WWT_WHAEIE_003_2500
Date Received: Jan 06, 2026
Date Reported: Jan 17, 2026
Report Number: RA2506207-AB

Sample Number: RA2506207-001
Sampled Date: Jan 06, 2026 09:40 AM
Sample Name: Wastewater
Sampling Site: NS BlueScope (Thailand) Limited.
Contact ID: WWT_WHAEIE_003_2500
Plot: G-72
Date of Analysis: Jan 06, 2026
Sampled by: Waranyoo Chimphalee
Physical Properties: yellow, strong odour, some solids, no turbid

Analytical Results

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Metals and Major Cations - Total							
Iron	mg/L	0.005	0.01	2.16	≤10	ME0002	Rayong

Guideline: Environmental Health Impact Assessment Report of WHA Eastern Industrial Estate (Map Ta Phut)
Comment: Sampling is not included in scope of accreditation ISO/IEC 17025
Key: LOD : Limit of Detection

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
ME0002	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3120 B,3030 F

——— END OF REPORT ———

Signatories

Jitsupa P.

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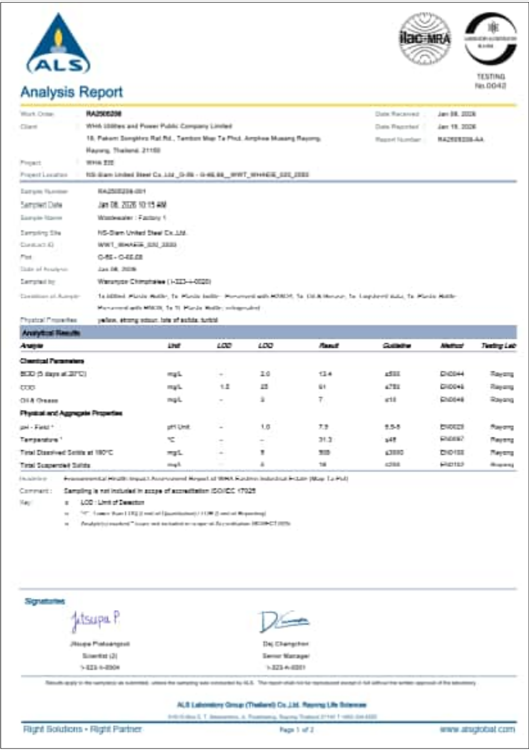

Analysis Report

TESTING No.0042

Work Order: RA2506208
Client: WHA Utilities and Power Public Company Limited
18, Pakorn Songkhro Rat Rd., Tambon Map Ta Phut, Amphoe Mueang Rayong, Rayong, Thailand, 21150
Project: WHA EIE
Project Location: NS-Siam United Steel Co.,Ltd._G-66 - G-66.68__WWT_WHAEIE_020_2500
Date Received: Jan 08, 2026
Date Reported: Jan 19, 2026
Report Number: RA2506208-AA

Sample Number: RA2506208-001
Sampled Date: Jan 08, 2026 10:15 AM
Sample Name: Wastewater : Factory 1
Sampling Site: NS-Siam United Steel Co.,Ltd.
Contact ID: WWT_WHAEIE_020_2500
Plot: G-66 - G-66.68
Date of Analysis: Jan 08, 2026
Sampled by: Waranyoo Chimphalee (1-323-4-0020)
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	13.4	≤500	EN0044	Rayong
COD	mg/L	1.5	25	61	≤750	EN0046	Rayong
Oil & Grease	mg/L	-	3	7	≤10	EN0048	Rayong
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.9	5.5-8	EN0023	Rayong
Temperature *	°C	-	-	31.3	≤45	EN0087	Rayong
Total Dissolved Solids at 180°C	mg/L	-	5	509	≤3000	EN0100	Rayong
Total Suspended Solids	mg/L	-	5	18	≤200	EN0102	Rayong

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

Signatories

Jitsupa P.

Scientist (2)

Senior Manager

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Analysis Report

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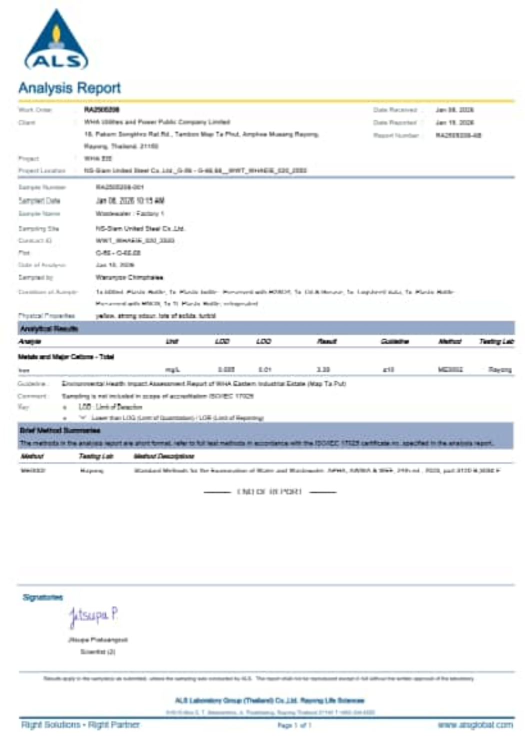

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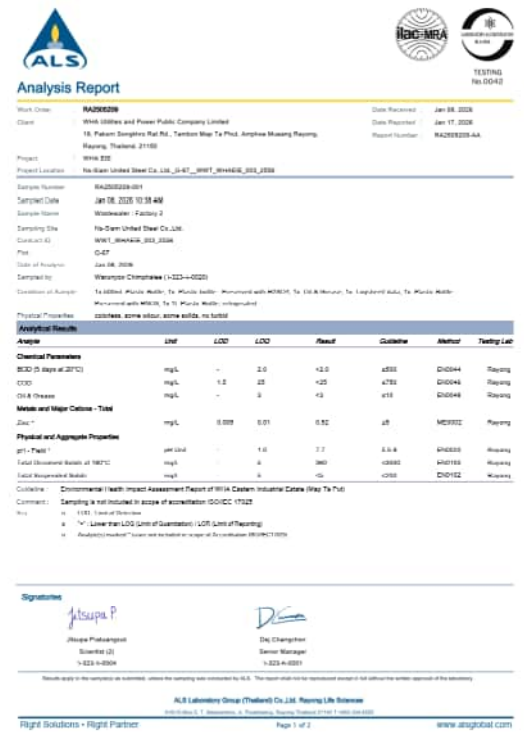

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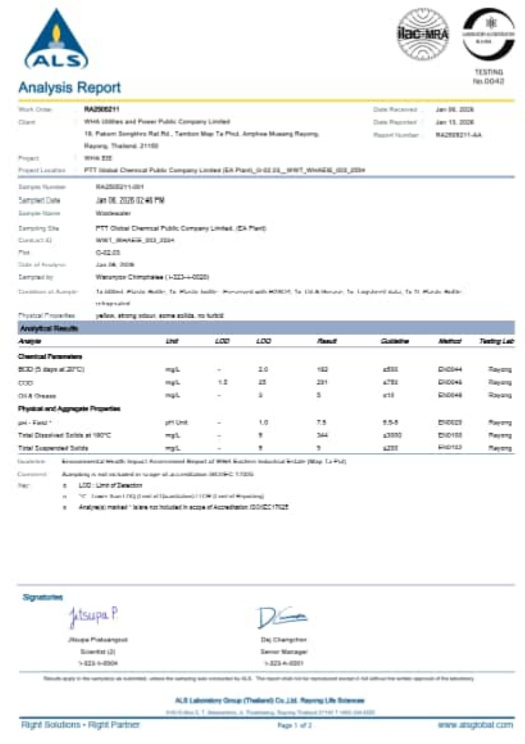

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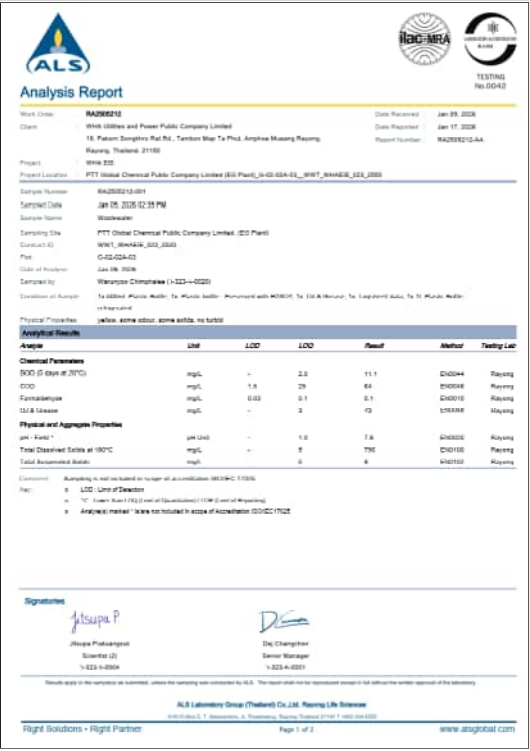

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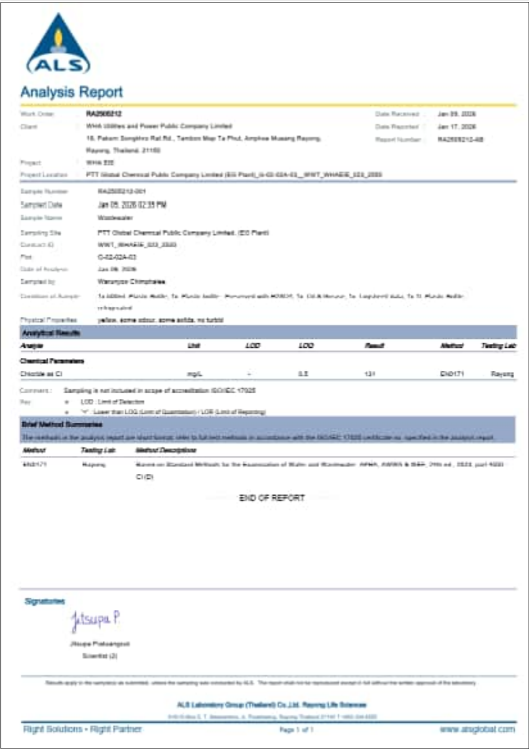

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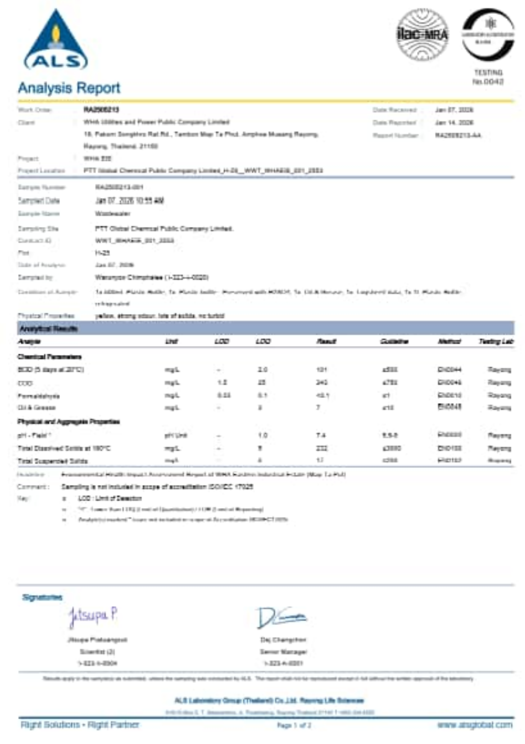
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Analytical Results

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Brief Method Summaries

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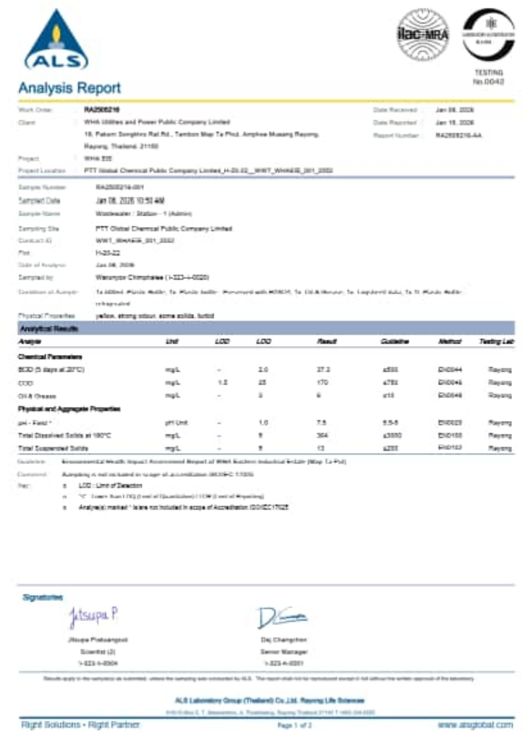
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Brief Method Summaries

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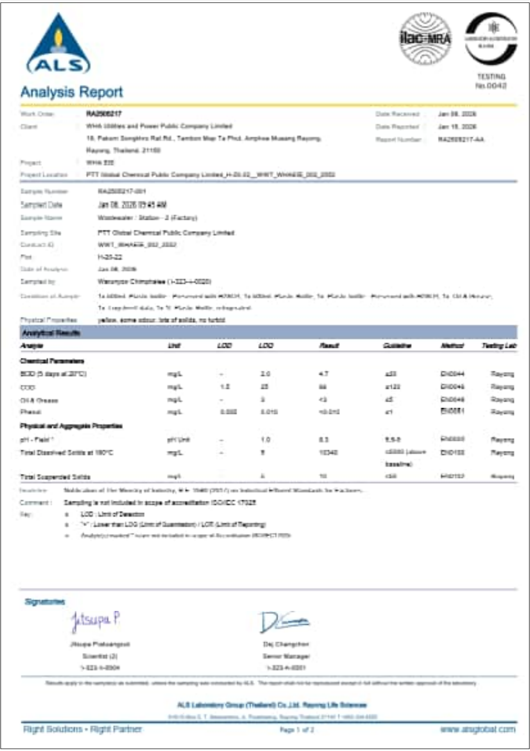
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Brief Method Summaries

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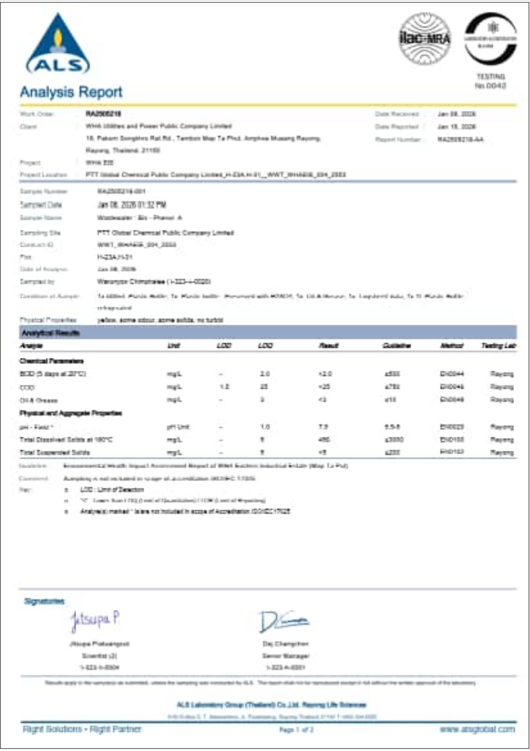
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Analytical Results

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Brief Method Summaries

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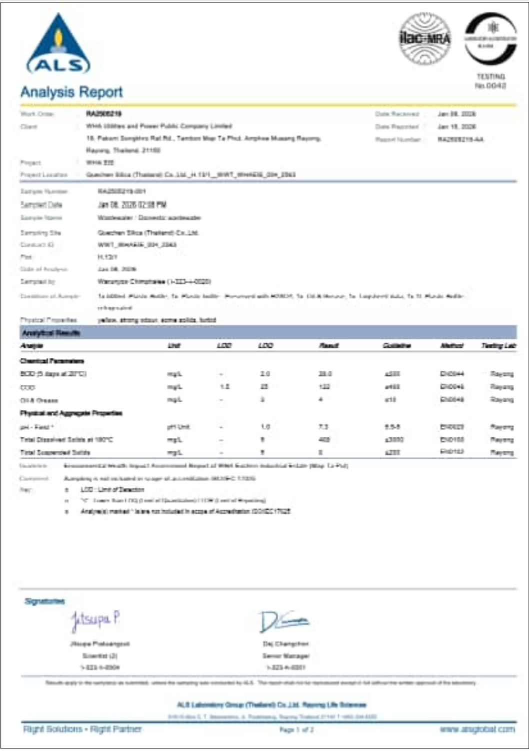
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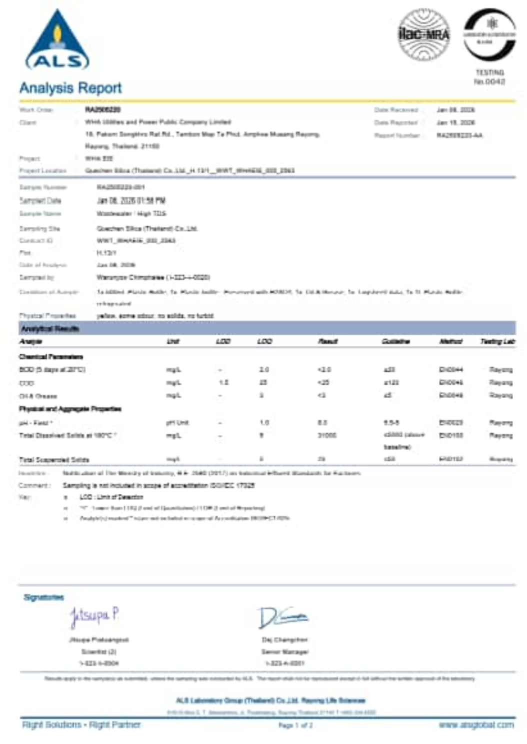

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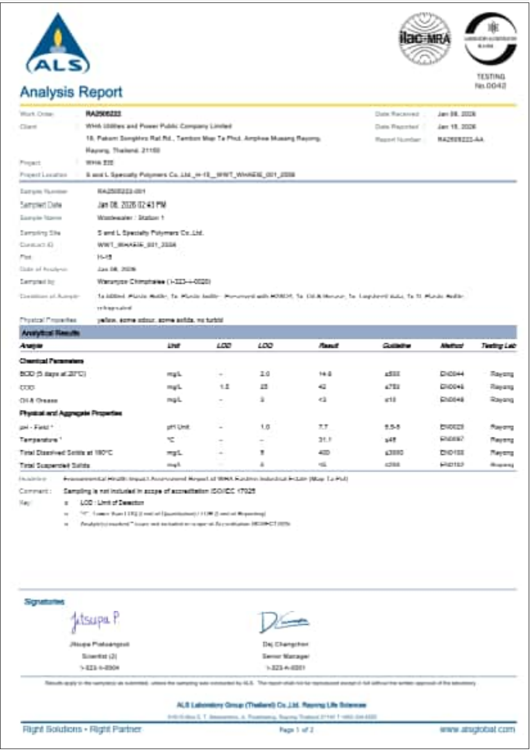

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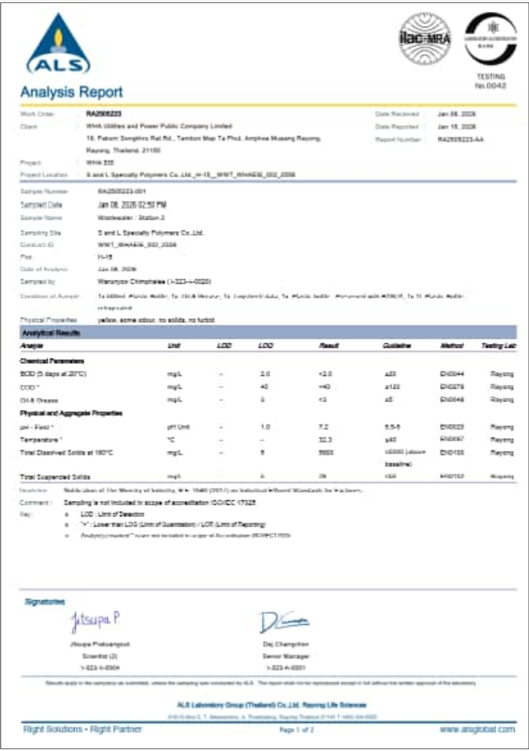

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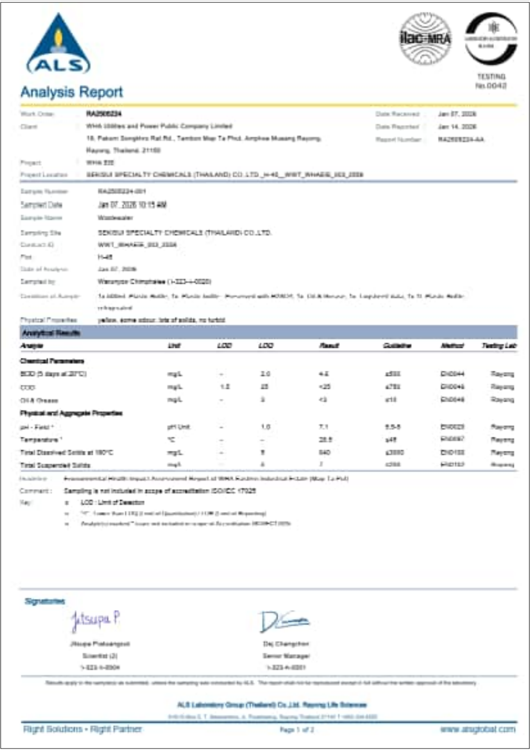

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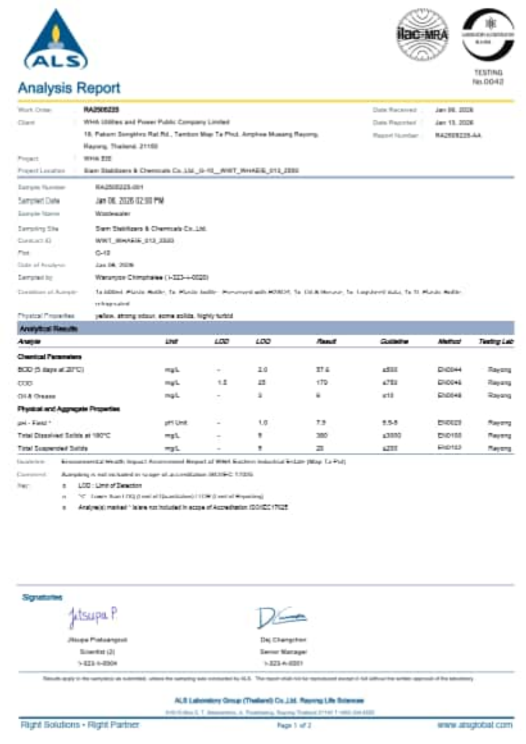

Analysis Report

TESTING
No.0042

Work Order: RA2506225
Client: WHA Utilities and Power Public Company Limited
18, Pakorn Songkhro Rat Rd., Tambon Map Ta Phut, Amphoe Mueang Rayong, Rayong, Thailand, 21150
Project: WHA EIE
Project Location: Siam Stabilizers & Chemicals Co.,Ltd._G-10__WWT_WHAEIE_013_2550
Date Received: Jan 06, 2026
Date Reported: Jan 13, 2026
Report Number: RA2506225-AA

Sample Number: RA2506225-001
Sampled Date: Jan 06, 2026 02:30 PM
Sample Name: Wastewater
Sampling Site: Siam Stabilizers & Chemicals Co.,Ltd.
Contact ID: WWT_WHAEIE_013_2550
Plot: G-10
Date of Analysis: Jan 06, 2026
Sampled by: Waranyoo Chimphalee (1-223-4-0020)
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	37.6	≤500	EN0044	Rayong
COD	mg/L	1.5	25	170	≤750	EN0046	Rayong
Oil & Grease	mg/L	-	3	6	≤10	EN0048	Rayong
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.9	5.5-9	EN0023	Rayong
Total Dissolved Solids at 180°C	mg/L	-	5	380	≤3000	EN0100	Rayong
Total Suspended Solids	mg/L	-	5	20	≤200	EN0102	Rayong

Key:
- LOD : Limit of Detection
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC17025

Signatories
Jitsupa P.
Jitsupa Pisitsangsuk
Scientist (2)
1-223-4-0004

Dej Changchon
Senior Manager
1-223-A-0001

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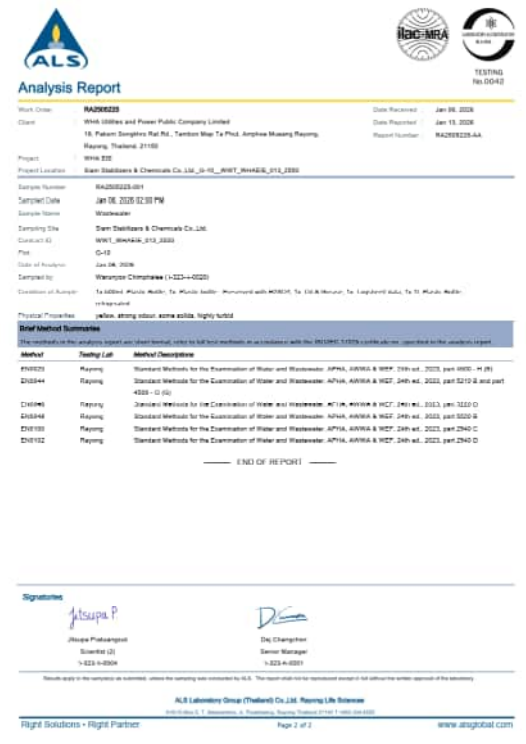

Analysis Report

TESTING
No.0042

Work Order: RA2506225
Client: WHA Utilities and Power Public Company Limited
18, Pakorn Songkhro Rat Rd., Tambon Map Ta Phut, Amphoe Mueang Rayong, Rayong, Thailand, 21150
Project: WHA EIE
Project Location: Siam Stabilizers & Chemicals Co.,Ltd._G-10__WWT_WHAEIE_013_2550
Date Received: Jan 06, 2026
Date Reported: Jan 13, 2026
Report Number: RA2506225-AA

Sample Number: RA2506225-001
Sampled Date: Jan 06, 2026 02:30 PM
Sample Name: Wastewater
Sampling Site: Siam Stabilizers & Chemicals Co.,Ltd.
Contact ID: WWT_WHAEIE_013_2550
Plot: G-10
Date of Analysis: Jan 06, 2026
Sampled by: Waranyoo Chimphalee (1-223-4-0020)
Physical Properties: yellow, strong odour, some solids, highly turbid

Brief Method Summaries

Method	Testing Lab	Method Descriptions
EN0023	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0100	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C
EN0102	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

——— END OF REPORT ———

Signatories
Jitsupa P.
Jitsupa Pisitsangsuk
Scientist (2)
1-223-4-0004

Dej Changchon
Senior Manager
1-223-A-0001

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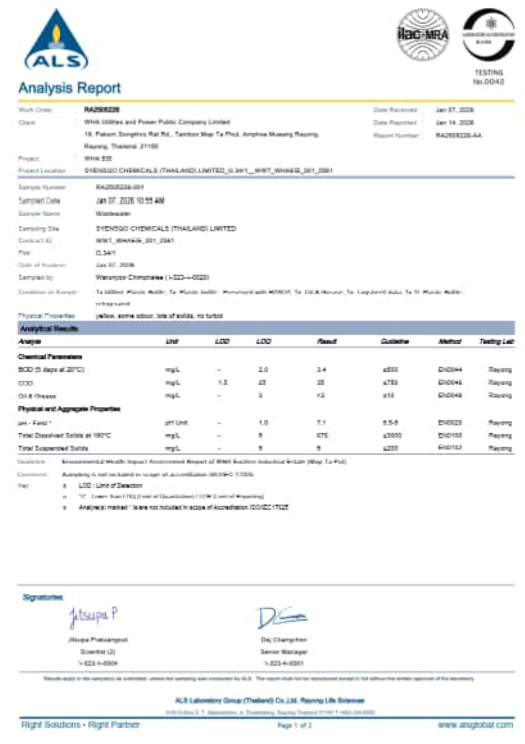

Analysis Report

TESTING
No.0042

Work Order: RA2506226
Client: WHA Utilities and Power Public Company Limited
18, Pakorn Songkhro Rat Rd., Tambon Map Ta Phut, Amphoe Mueang Rayong, Rayong, Thailand, 21150
Project: WHA EIE
Project Location: SYENSQO CHEMICALS (THAILAND) LIMITED_G.3/4/1__WWT_WHAEIE_001_2541
Date Received: Jan 07, 2026
Date Reported: Jan 14, 2026
Report Number: RA2506226-AA

Sample Number: RA2506226-001
Sampled Date: Jan 07, 2026 10:55 AM
Sample Name: Wastewater
Sampling Site: SYENSQO CHEMICALS (THAILAND) LIMITED
Contact ID: WWT_WHAEIE_001_2541
Plot: G.3/4/1
Date of Analysis: Jan 07, 2026
Sampled by: Waranyoo Chimphalee (1-223-4-0020)
Physical Properties: yellow, some odour, lots of solids, no 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	Rayong
COD	mg/L	1.5	25	35	≤750	EN0046	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	EN0048	Rayong
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.1	5.5-9	EN0023	Rayong
Total Dissolved Solids at 180°C	mg/L	-	5	676	≤3000	EN0100	Rayong
Total Suspended Solids	mg/L	-	5	5	≤200	EN0102	Rayong

Key:
- LOD : Limit of Detection
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC17025

Signatories
Jitsupa P.
Jitsupa Pisitsangsuk
Scientist (2)
1-223-4-0004

Dej Changchon
Senior Manager
1-223-A-0001

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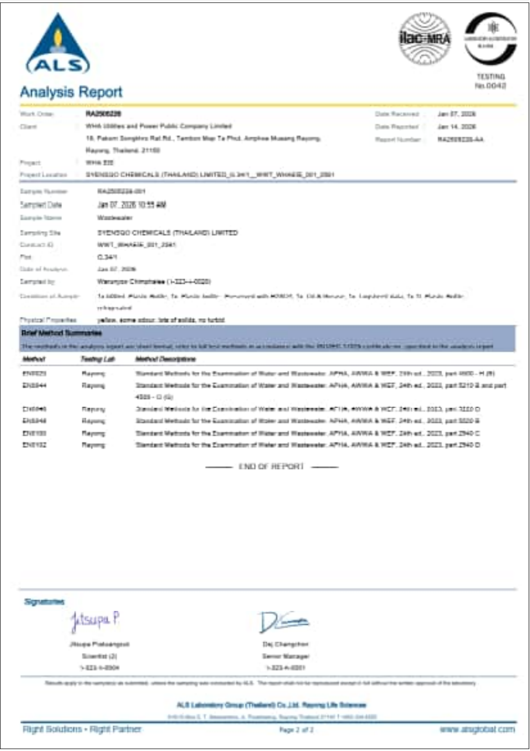

Analysis Report

TESTING
No.0042

Work Order: RA2506226
Client: WHA Utilities and Power Public Company Limited
18, Pakorn Songkhro Rat Rd., Tambon Map Ta Phut, Amphoe Mueang Rayong, Rayong, Thailand, 21150
Project: WHA EIE
Project Location: SYENSQO CHEMICALS (THAILAND) LIMITED_G.3/4/1__WWT_WHAEIE_001_2541
Date Received: Jan 07, 2026
Date Reported: Jan 14, 2026
Report Number: RA2506226-AA

Sample Number: RA2506226-001
Sampled Date: Jan 07, 2026 10:55 AM
Sample Name: Wastewater
Sampling Site: SYENSQO CHEMICALS (THAILAND) LIMITED
Contact ID: WWT_WHAEIE_001_2541
Plot: G.3/4/1
Date of Analysis: Jan 07, 2026
Sampled by: Waranyoo Chimphalee (1-223-4-0020)
Physical Properties: yellow, some odour, lots of solids, no turbid

Brief Method Summaries

Method	Testing Lab	Method Descriptions
EN0023	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0100	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C
EN0102	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

——— END OF REPORT ———

Signatories
Jitsupa P.
Jitsupa Pisitsangsuk
Scientist (2)
1-223-4-0004

Dej Changchon
Senior Manager
1-223-A-0001

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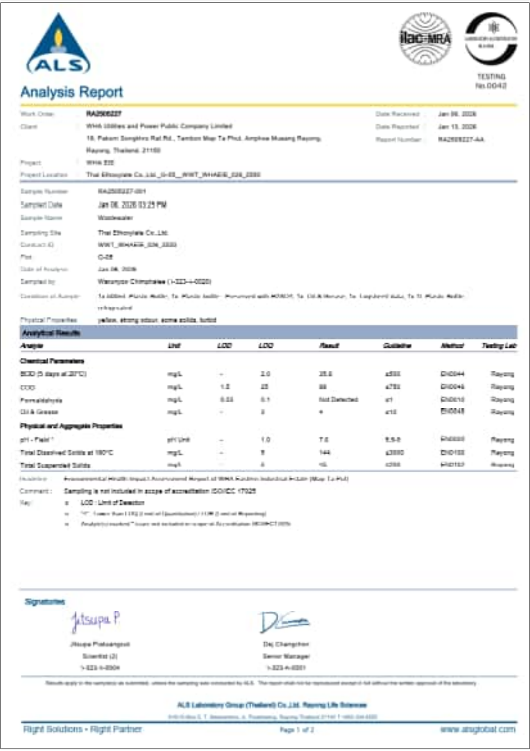

Analysis Report

TESTING
No.0042

Work Order: RA2506227
Client: WHA Utilities and Power Public Company Limited
18, Pakorn Songkhro Rat Rd., Tambon Map Ta Phut, Amphoe Mueang Rayong, Rayong, Thailand, 21150
Project: WHA EIE
Project Location: Thai Ethoxylate Co.,Ltd._G-05__WWT_WHAEIE_026_2550
Date Received: Jan 06, 2026
Date Reported: Jan 13, 2026
Report Number: RA2506227-AA

Sample Number: RA2506227-001
Sampled Date: Jan 06, 2026 03:25 PM
Sample Name: Wastewater
Sampling Site: Thai Ethoxylate Co.,Ltd.
Contact ID: WWT_WHAEIE_026_2550
Plot: G-05
Date of Analysis: Jan 06, 2026
Sampled by: Waranyoo Chimphalee (1-223-4-0020)
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	25.8	≤500	EN0044	Rayong
COD	mg/L	1.5	25	88	≤750	EN0046	Rayong
Formaldehyde	mg/L	0.03	0.1	Not Detected	≤1	EN0010	Rayong
Oil & Grease	mg/L	-	3	4	≤10	EN0048	Rayong
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.6	5.5-9	EN0023	Rayong
Total Dissolved Solids at 180°C	mg/L	-	5	144	≤3000	EN0100	Rayong
Total Suspended Solids	mg/L	-	5	<5	≤200	EN0102	Rayong

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

Key:
- LOD : Limit of Detection

Signatories
Jitsupa P.
Jitsupa Pisitsangsuk
Scientist (2)
1-223-4-0004

Dej Changchon
Senior Manager
1-223-A-0001

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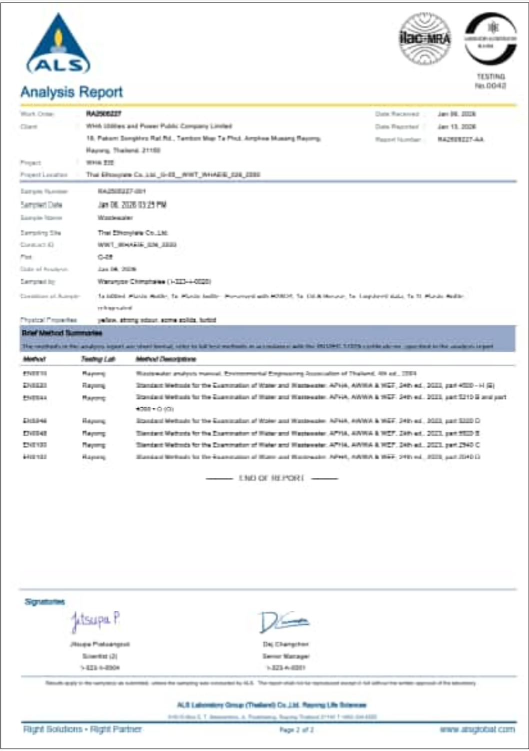

Analysis Report

TESTING
No.0042

Work Order: RA2506227
Client: WHA Utilities and Power Public Company Limited
18, Pakorn Songkhro Rat Rd., Tambon Map Ta Phut, Amphoe Mueang Rayong, Rayong, Thailand, 21150
Project: WHA EIE
Project Location: Thai Ethoxylate Co.,Ltd._G-05__WWT_WHAEIE_026_2550
Date Received: Jan 06, 2026
Date Reported: Jan 13, 2026
Report Number: RA2506227-AA

Sample Number: RA2506227-001
Sampled Date: Jan 06, 2026 03:25 PM
Sample Name: Wastewater
Sampling Site: Thai Ethoxylate Co.,Ltd.
Contact ID: WWT_WHAEIE_026_2550
Plot: G-05
Date of Analysis: Jan 06, 2026
Sampled by: Waranyoo Chimphalee (1-223-4-0020)
Physical Properties: yellow, strong odour, some solids, turbid

Brief Method Summaries

Method	Testing Lab	Method Descriptions
EN0010	Rayong	Wastewater analysis manual, Environmental Engineering Association of Thailand, 4th ed., 2004
EN0023	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0100	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C
EN0102	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

——— END OF REPORT ———

Signatories
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Jitsupa Pisitsangsuk
Scientist (2)
1-223-4-0004

Dej Changchon
Senior Manager
1-223-A-0001

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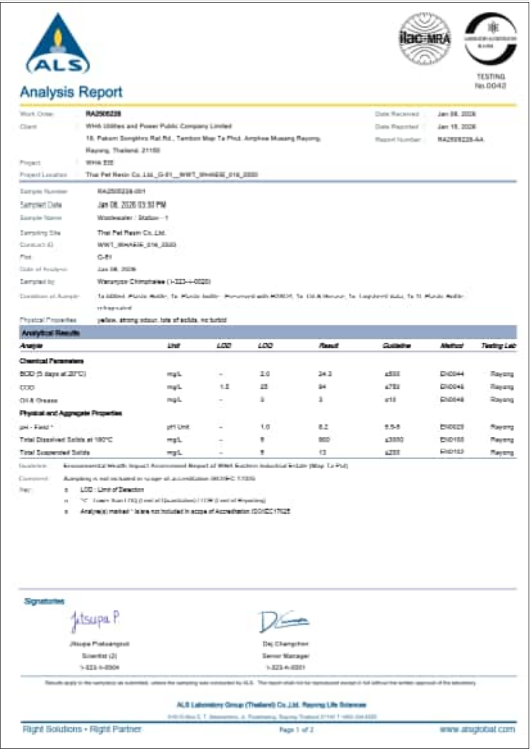

Analysis Report

TESTING
No.0042

Work Order: RA2506228
Client: WHA Utilities and Power Public Company Limited
18, Pakorn Songkhro Rat Rd., Tambon Map Ta Phut, Amphoe Mueang Rayong, Rayong, Thailand, 21150
Project: WHA EIE
Project Location: Thai Pet Resin Co.,Ltd._G-01__WWT_WHAEIE_016_2550
Date Received: Jan 08, 2026
Date Reported: Jan 15, 2026
Report Number: RA2506228-AA

Sample Number: RA2506228-001
Sampled Date: Jan 08, 2026 03:30 PM
Sample Name: Wastewater : Station - 1
Sampling Site: Thai Pet Resin Co.,Ltd.
Contact ID: WWT_WHAEIE_016_2550
Plot: G-01
Date of Analysis: Jan 08, 2026
Sampled by: Waranyoo Chimphalee (1-223-4-0020)
Physical Properties: yellow, strong odour, lots of solids, no turbid

Analytical Results

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	24.3	≤500	EN0044	Rayong
COD	mg/L	1.5	25	84	≤750	EN0046	Rayong
Oil & Grease	mg/L	-	3	3	≤10	EN0048	Rayong
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	8.2	5.5-9	EN0023	Rayong
Total Dissolved Solids at 180°C	mg/L	-	5	800	≤3000	EN0100	Rayong
Total Suspended Solids	mg/L	-	5	13	≤200	EN0102	Rayong

Key:
- LOD : Limit of Detection
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC17025

Signatories
Jitsupa P.
Jitsupa Pisitsangsuk
Scientist (2)
1-223-4-0004

Dej Changchon
Senior Manager
1-223-A-0001

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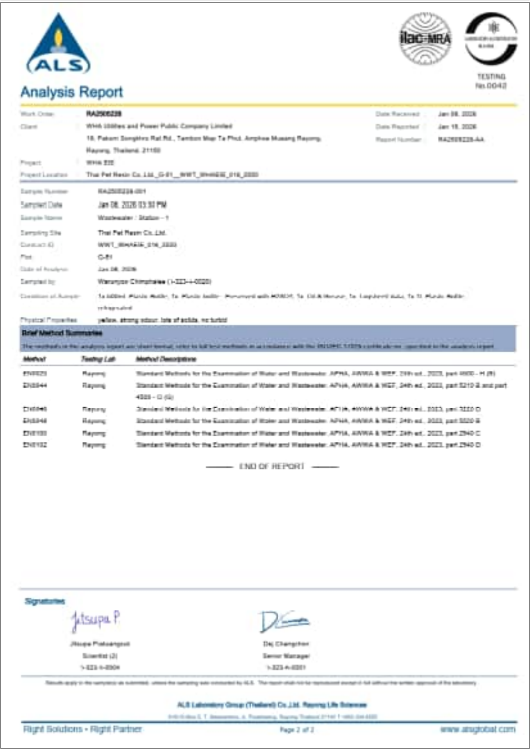

Analysis Report

TESTING
No.0042

Work Order: RA2506228
Client: WHA Utilities and Power Public Company Limited
18, Pakorn Songkhro Rat Rd., Tambon Map Ta Phut, Amphoe Mueang Rayong, Rayong, Thailand, 21150
Project: WHA EIE
Project Location: Thai Pet Resin Co.,Ltd._G-01__WWT_WHAEIE_016_2550
Date Received: Jan 08, 2026
Date Reported: Jan 15, 2026
Report Number: RA2506228-AA

Sample Number: RA2506228-001
Sampled Date: Jan 08, 2026 03:30 PM
Sample Name: Wastewater : Station - 1
Sampling Site: Thai Pet Resin Co.,Ltd.
Contact ID: WWT_WHAEIE_016_2550
Plot: G-01
Date of Analysis: Jan 08, 2026
Sampled by: Waranyoo Chimphalee (1-223-4-0020)
Physical Properties: yellow, strong odour, lots of solids, no turbid

Brief Method Summaries

Method	Testing Lab	Method Descriptions
EN0023	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0100	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C
EN0102	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

——— END OF REPORT ———

Signatories
Jitsupa P.
Jitsupa Pisitsangsuk
Scientist (2)
1-223-4-0004

Dej Changchon
Senior Manager
1-223-A-0001

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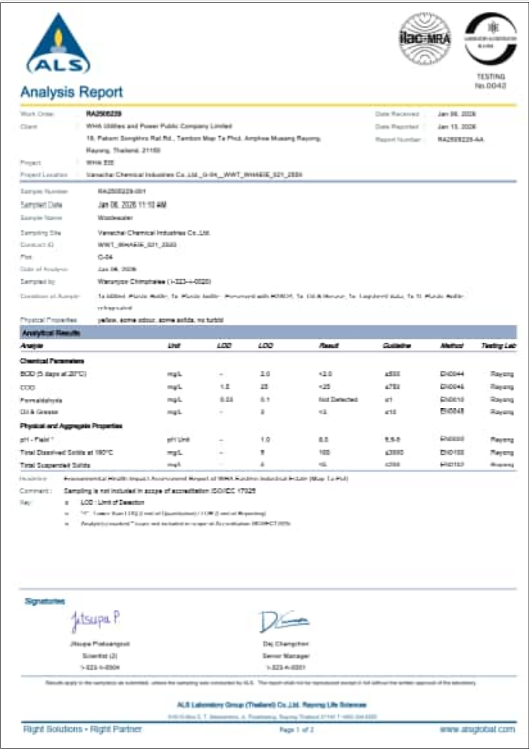

Analysis Report

TESTING
No.0042

Work Order: RA2506229
Client: WHA Utilities and Power Public Company Limited
18, Pakorn Songkhro Rat Rd., Tambon Map Ta Phut, Amphoe Mueang Rayong, Rayong, Thailand, 21150
Project: WHA EIE
Project Location: Vanachai Chemical Industries Co.,Ltd._G-04__WWT_WHAEIE_021_2550
Date Received: Jan 06, 2026
Date Reported: Jan 13, 2026
Report Number: RA2506229-AA

Sample Number: RA2506229-001
Sampled Date: Jan 06, 2026 11:10 AM
Sample Name: Wastewater
Sampling Site: Vanachai Chemical Industries Co.,Ltd.
Contact ID: WWT_WHAEIE_021_2550
Plot: G-04
Date of Analysis: Jan 06, 2026
Sampled by: Waranyoo Chimphalee (1-223-4-0020)
Physical Properties: yellow, some odour, some solids, no 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	Rayong
COD	mg/L	1.5	25	<25	≤750	EN0046	Rayong
Formaldehyde	mg/L	0.03	0.1	Not Detected	≤1	EN0010	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	EN0048	Rayong
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	8.0	5.5-9	EN0023	Rayong
Total Dissolved Solids at 180°C	mg/L	-	5	100	≤3000	EN0100	Rayong
Total Suspended Solids	mg/L	-	5	<5	≤200	EN0102	Rayong

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

Key:
- LOD : Limit of Detection

Signatories
Jitsupa P.
Jitsupa Pisitsangsuk
Scientist (2)
1-223-4-0004

Dej Changchon
Senior Manager
1-223-A-0001

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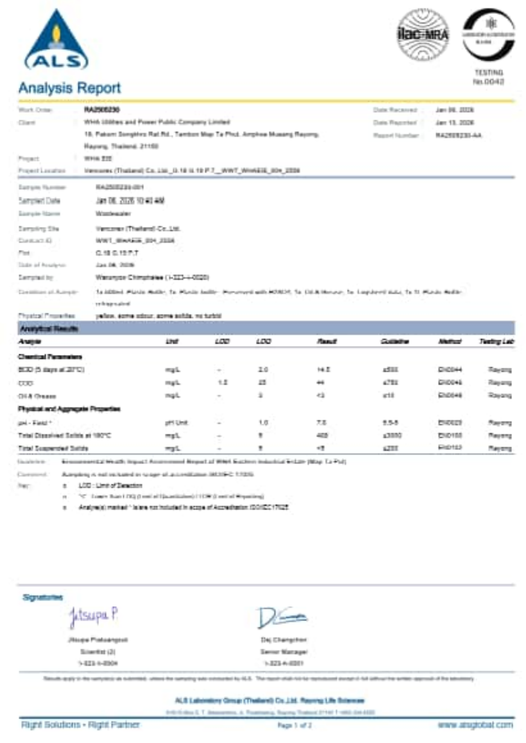
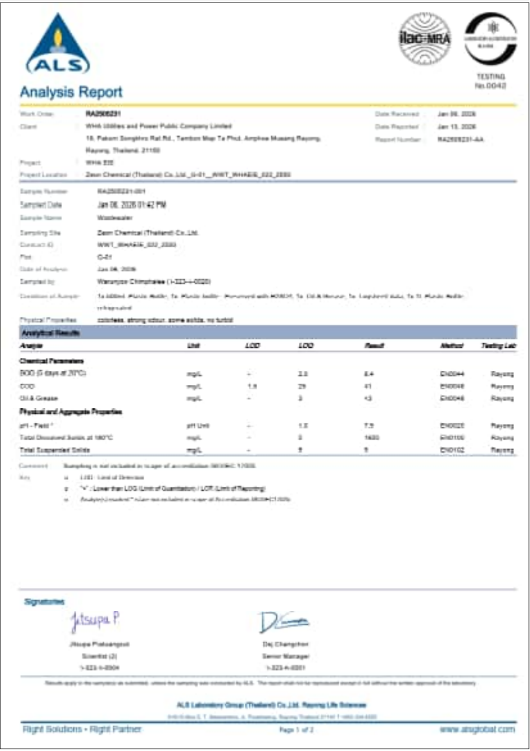
Analysis Report



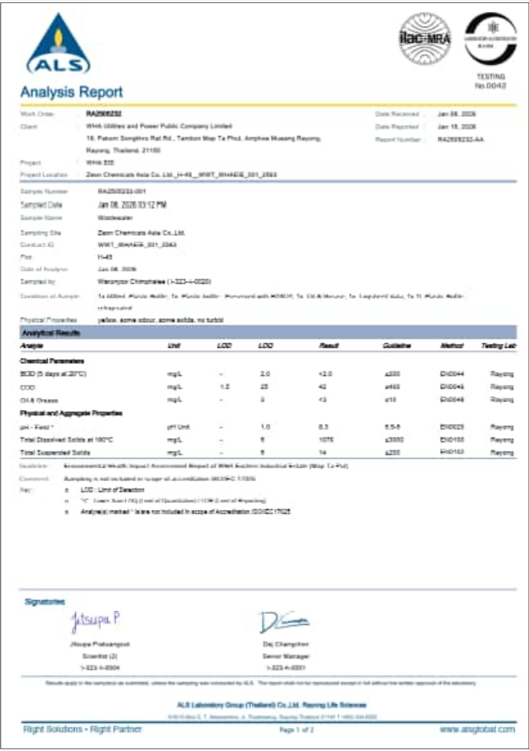
Analysis Report

Analysis Report



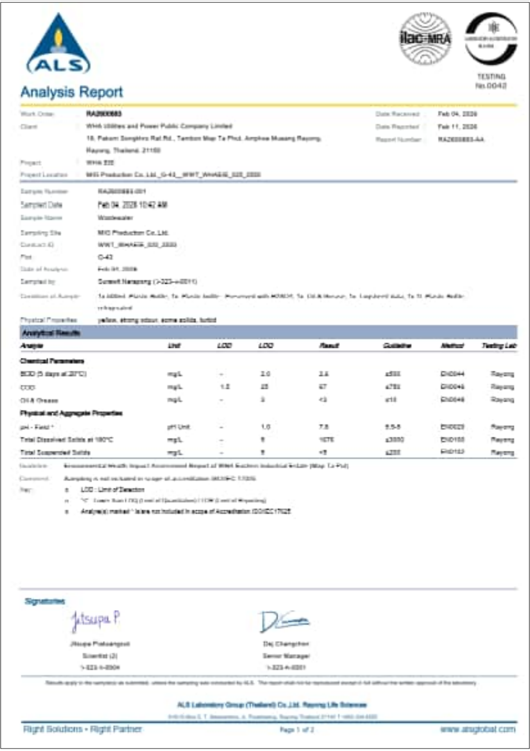
Analysis Report

Analysis Report



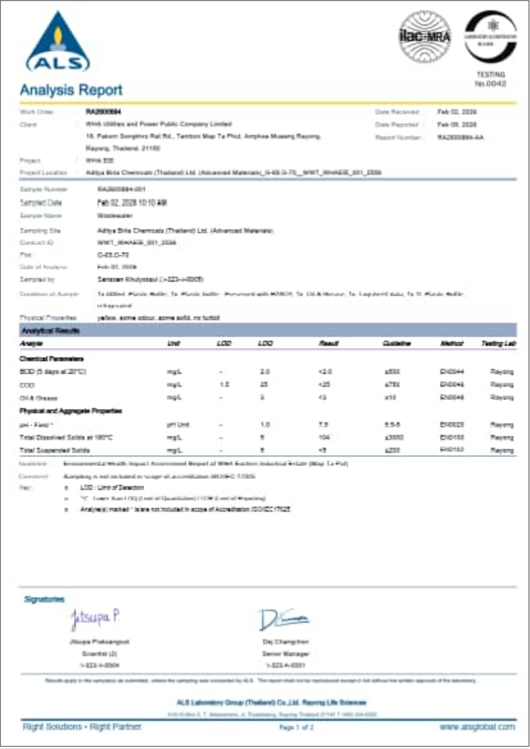
Analysis Report

Analysis Report



Analysis Report

Analysis Report



Analysis Report

TESTING No.0042

Work Order: **RA2600884**
Client: WHA Utilities and Power Public Company Limited
18, Pakorn Songkhro Rat Rd., Tambon Map Ta Phut, Amphoe Mueang Rayong, Rayong, Thailand, 21150
Project: WHA EIE
Project Location: Aditya Birla Chemicals (Thailand) Ltd. (Advanced Materials)_G-69,G-70__WWT_WHAEIE_001_2026
Date Received: Feb 02, 2026
Date Reported: Feb 09, 2026
Report Number: RA2600884-AA

Sample Number: RA2600884-001
Sampled Date: Feb 02, 2026 10:10 AM
Sample Name: Wastewater
Sampling Site: Aditya Birla Chemicals (Thailand) Ltd. (Advanced Materials)
Contract ID: WWT_WHAEIE_001_2026
Plot: G-69,G-70
Date of Analysis: Feb 02, 2026
Physical Properties: yellow, some odour, some solid, no 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	Rayong
COD	mg/L	1.5	25	<25	≤750	EN0046	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	EN0048	Rayong
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.9	5.5-9	EN0023	Rayong
Total Dissolved Solids at 180°C	mg/L	-	5	104	≤3000	EN0100	Rayong
Total Suspended Solids	mg/L	-	5	<5	≤200	EN0102	Rayong

Key:
- LOD : Limit of Detection
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC17025

Signatories

Jitsupa P.

Jitsupa Plaksangsut
Scientist (2)

Dej Changchon
Senior Manager

ALS Laboratory Group (Thailand) Co.,Ltd. Rayong Life Sciences

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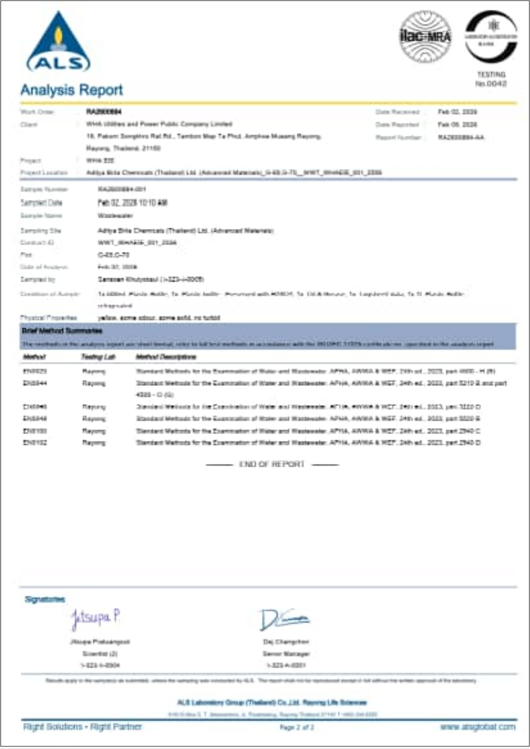


Analysis Report

TESTING No.0042

Work Order: **RA2600884**
Client: WHA Utilities and Power Public Company Limited
18, Pakorn Songkhro Rat Rd., Tambon Map Ta Phut, Amphoe Mueang Rayong, Rayong, Thailand, 21150
Project: WHA EIE
Project Location: Aditya Birla Chemicals (Thailand) Ltd. (Advanced Materials)_G-69,G-70__WWT_WHAEIE_001_2026
Date Received: Feb 02, 2026
Date Reported: Feb 09, 2026
Report Number: RA2600884-AA

Sample Number: RA2600884-001
Sampled Date: Feb 02, 2026 10:10 AM
Sample Name: Wastewater
Sampling Site: Aditya Birla Chemicals (Thailand) Ltd. (Advanced Materials)
Contract ID: WWT_WHAEIE_001_2026
Plot: G-69,G-70
Date of Analysis: Feb 02, 2026
Physical Properties: yellow, some odour, some solid, no turbid

Brief Method Summaries

Method	Testing Lab	Method Descriptions
EN0023	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0100	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C
EN0102	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

END OF REPORT

Signatories

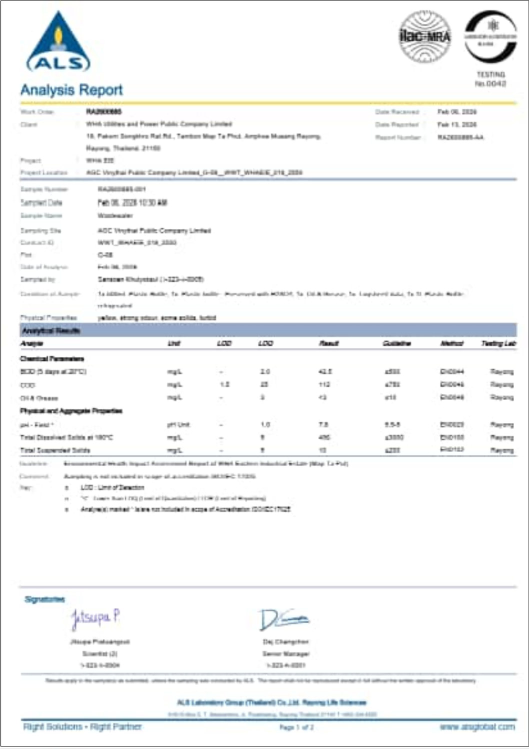
Jitsupa P.

Jitsupa Plaksangsut
Scientist (2)

Dej Changchon
Senior Manager

ALS Laboratory Group (Thailand) Co.,Ltd. Rayong Life Sciences

---



Analysis Report

TESTING No.0042

Work Order: **RA2600885**
Client: WHA Utilities and Power Public Company Limited
18, Pakorn Songkhro Rat Rd., Tambon Map Ta Phut, Amphoe Mueang Rayong, Rayong, Thailand, 21150
Project: WHA EIE
Project Location: AGC Vinythai Public Company Limited_G-08__WWT_WHAEIE_018_2026
Date Received: Feb 06, 2026
Date Reported: Feb 13, 2026
Report Number: RA2600885-AA

Sample Number: RA2600885-001
Sampled Date: Feb 06, 2026 10:30 AM
Sample Name: Wastewater
Sampling Site: AGC Vinythai Public Company Limited
Contract ID: WWT_WHAEIE_018_2026
Plot: G-08
Date of Analysis: Feb 06, 2026
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	42.5	≤500	EN0044	Rayong
COD	mg/L	1.5	25	112	≤750	EN0046	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	EN0048	Rayong
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.8	5.5-9	EN0023	Rayong
Total Dissolved Solids at 180°C	mg/L	-	5	496	≤3000	EN0100	Rayong
Total Suspended Solids	mg/L	-	5	10	≤200	EN0102	Rayong

Key:
- LOD : Limit of Detection
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC17025

Signatories

Jitsupa P.

Jitsupa Plaksangsut
Scientist (2)

Dej Changchon
Senior Manager

ALS Laboratory Group (Thailand) Co.,Ltd. Rayong Life Sciences

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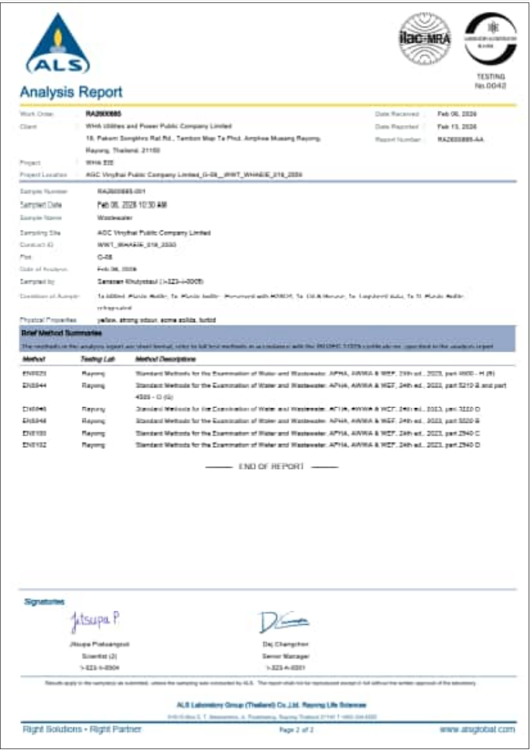

Analysis Report

TESTING No.0042

Work Order: **RA2600885**
Client: WHA Utilities and Power Public Company Limited
18, Pakorn Songkhro Rat Rd., Tambon Map Ta Phut, Amphoe Mueang Rayong, Rayong, Thailand, 21150
Project: WHA EIE
Project Location: AGC Vinythai Public Company Limited_G-08__WWT_WHAEIE_018_2026
Date Received: Feb 06, 2026
Date Reported: Feb 13, 2026
Report Number: RA2600885-AA

Sample Number: RA2600885-001
Sampled Date: Feb 06, 2026 10:30 AM
Sample Name: Wastewater
Sampling Site: AGC Vinythai Public Company Limited
Contract ID: WWT_WHAEIE_018_2026
Plot: G-08
Date of Analysis: Feb 06, 2026
Physical Properties: yellow, strong odour, some solids, turbid

Brief Method Summaries

Method	Testing Lab	Method Descriptions
EN0023	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0100	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C
EN0102	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

END OF REPORT

Signatories

Jitsupa P.

Jitsupa Plaksangsut
Scientist (2)

Dej Changchon
Senior Manager

ALS Laboratory Group (Thailand) Co.,Ltd. Rayong Life Sciences

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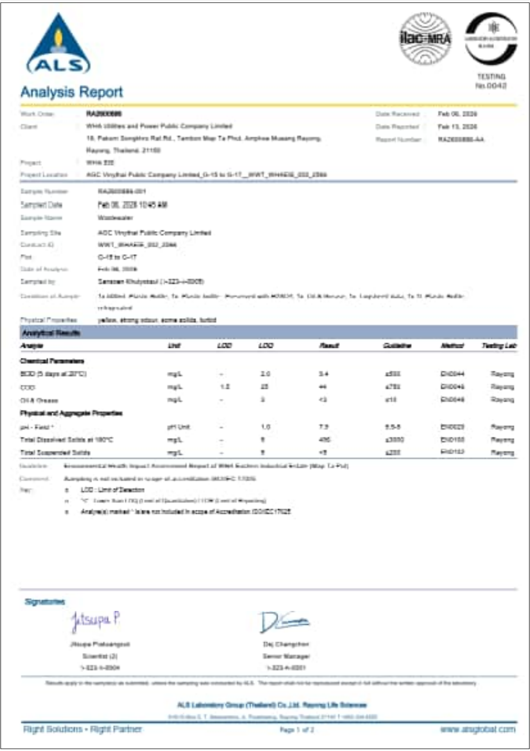

Analysis Report

TESTING No.0042

Work Order: **RA2600886**
Client: WHA Utilities and Power Public Company Limited
18, Pakorn Songkhro Rat Rd., Tambon Map Ta Phut, Amphoe Mueang Rayong, Rayong, Thailand, 21150
Project: WHA EIE
Project Location: AGC Vinythai Public Company Limited_G-15 to G-17__WWT_WHAEIE_002_2026
Date Received: Feb 06, 2026
Date Reported: Feb 13, 2026
Report Number: RA2600886-AA

Sample Number: RA2600886-001
Sampled Date: Feb 06, 2026 10:45 AM
Sample Name: Wastewater
Sampling Site: AGC Vinythai Public Company Limited
Contract ID: WWT_WHAEIE_002_2026
Plot: G-15 to G-17
Date of Analysis: Feb 06, 2026
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	3.4	≤500	EN0044	Rayong
COD	mg/L	1.5	25	44	≤750	EN0046	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	EN0048	Rayong
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.3	5.5-9	EN0023	Rayong
Total Dissolved Solids at 180°C	mg/L	-	5	496	≤3000	EN0100	Rayong
Total Suspended Solids	mg/L	-	5	<5	≤200	EN0102	Rayong

Key:
- LOD : Limit of Detection
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC17025

Signatories

Jitsupa P.

Jitsupa Plaksangsut
Scientist (2)

Dej Changchon
Senior Manager

ALS Laboratory Group (Thailand) Co.,Ltd. Rayong Life Sciences

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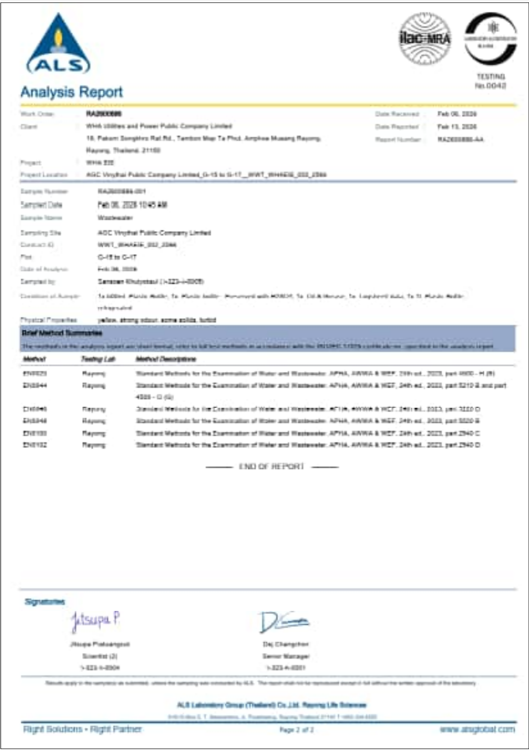

Analysis Report

TESTING No.0042

Work Order: **RA2600886**
Client: WHA Utilities and Power Public Company Limited
18, Pakorn Songkhro Rat Rd., Tambon Map Ta Phut, Amphoe Mueang Rayong, Rayong, Thailand, 21150
Project: WHA EIE
Project Location: AGC Vinythai Public Company Limited_G-15 to G-17__WWT_WHAEIE_002_2026
Date Received: Feb 06, 2026
Date Reported: Feb 13, 2026
Report Number: RA2600886-AA

Sample Number: RA2600886-001
Sampled Date: Feb 06, 2026 10:45 AM
Sample Name: Wastewater
Sampling Site: AGC Vinythai Public Company Limited
Contract ID: WWT_WHAEIE_002_2026
Plot: G-15 to G-17
Date of Analysis: Feb 06, 2026
Physical Properties: yellow, strong odour, some solids, turbid

Brief Method Summaries

Method	Testing Lab	Method Descriptions
EN0023	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0100	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C
EN0102	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

END OF REPORT

Signatories

Jitsupa P.

Jitsupa Plaksangsut
Scientist (2)

Dej Changchon
Senior Manager

ALS Laboratory Group (Thailand) Co.,Ltd. Rayong Life Sciences

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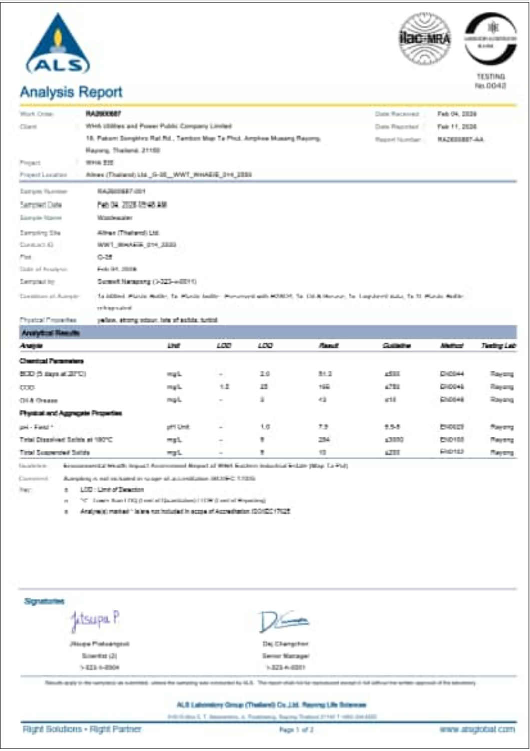


Analysis Report

TESTING No.0042

Work Order: **RA2600887**
Client: WHA Utilities and Power Public Company Limited
18, Pakorn Songkhro Rat Rd., Tambon Map Ta Phut, Amphoe Mueang Rayong, Rayong, Thailand, 21150
Project: WHA EIE
Project Location: Allnex (Thailand) Ltd._G-35__WWT_WHAEIE_014_2026
Date Received: Feb 04, 2026
Date Reported: Feb 11, 2026
Report Number: RA2600887-AA

Sample Number: RA2600887-001
Sampled Date: Feb 04, 2026 09:48 AM
Sample Name: Wastewater
Sampling Site: Allnex (Thailand) Ltd.
Contract ID: WWT_WHAEIE_014_2026
Plot: G-35
Date of Analysis: Feb 04, 2026
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	51.2	≤500	EN0044	Rayong
COD	mg/L	1.5	25	166	≤750	EN0046	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	EN0048	Rayong
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.9	5.5-9	EN0023	Rayong
Total Dissolved Solids at 180°C	mg/L	-	5	284	≤3000	EN0100	Rayong
Total Suspended Solids	mg/L	-	5	10	≤200	EN0102	Rayong

Key:
- LOD : Limit of Detection
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC17025

Signatories

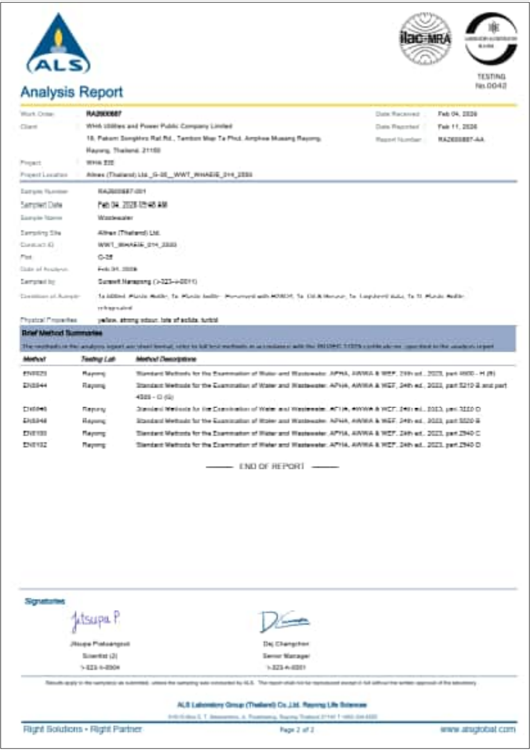
Jitsupa P.

Jitsupa Plaksangsut
Scientist (2)

Dej Changchon
Senior Manager

ALS Laboratory Group (Thailand) Co.,Ltd. Rayong Life Sciences

---



Analysis Report

TESTING No.0042

Work Order: **RA2600887**
Client: WHA Utilities and Power Public Company Limited
18, Pakorn Songkhro Rat Rd., Tambon Map Ta Phut, Amphoe Mueang Rayong, Rayong, Thailand, 21150
Project: WHA EIE
Project Location: Allnex (Thailand) Ltd._G-35__WWT_WHAEIE_014_2026
Date Received: Feb 04, 2026
Date Reported: Feb 11, 2026
Report Number: RA2600887-AA

Sample Number: RA2600887-001
Sampled Date: Feb 04, 2026 09:48 AM
Sample Name: Wastewater
Sampling Site: Allnex (Thailand) Ltd.
Contract ID: WWT_WHAEIE_014_2026
Plot: G-35
Date of Analysis: Feb 04, 2026
Physical Properties: yellow, strong odour, lots of solids, turbid

Brief Method Summaries

Method	Testing Lab	Method Descriptions
EN0023	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0100	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C
EN0102	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

END OF REPORT

Signatories

Jitsupa P.

Jitsupa Plaksangsut
Scientist (2)

Dej Changchon
Senior Manager

ALS Laboratory Group (Thailand) Co.,Ltd. Rayong Life Sciences

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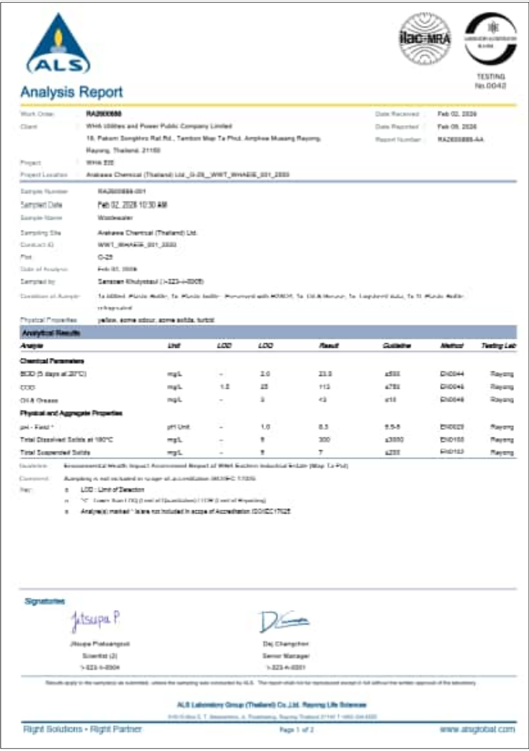

Analysis Report

TESTING No.0042

Work Order: **RA2600888**
Client: WHA Utilities and Power Public Company Limited
18, Pakorn Songkhro Rat Rd., Tambon Map Ta Phut, Amphoe Mueang Rayong, Rayong, Thailand, 21150
Project: WHA EIE
Project Location: Arakawa Chemical (Thailand) Ltd._G-25__WWT_WHAEIE_001_2026
Date Received: Feb 02, 2026
Date Reported: Feb 09, 2026
Report Number: RA2600888-AA

Sample Number: RA2600888-001
Sampled Date: Feb 02, 2026 10:30 AM
Sample Name: Wastewater
Sampling Site: Arakawa Chemical (Thailand) Ltd.
Contract ID: WWT_WHAEIE_001_2026
Plot: G-25
Date of Analysis: Feb 02, 2026
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	23.3	≤500	EN0044	Rayong
COD	mg/L	1.5	25	113	≤750	EN0046	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	EN0048	Rayong
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	8.3	5.5-9	EN0023	Rayong
Total Dissolved Solids at 180°C	mg/L	-	5	300	≤3000	EN0100	Rayong
Total Suspended Solids	mg/L	-	5	7	≤200	EN0102	Rayong

Key:
- LOD : Limit of Detection
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC17025

Signatories

Jitsupa P.

Jitsupa Plaksangsut
Scientist (2)

Dej Changchon
Senior Manager

ALS Laboratory Group (Thailand) Co.,Ltd. Rayong Life Sciences

Analysis Report

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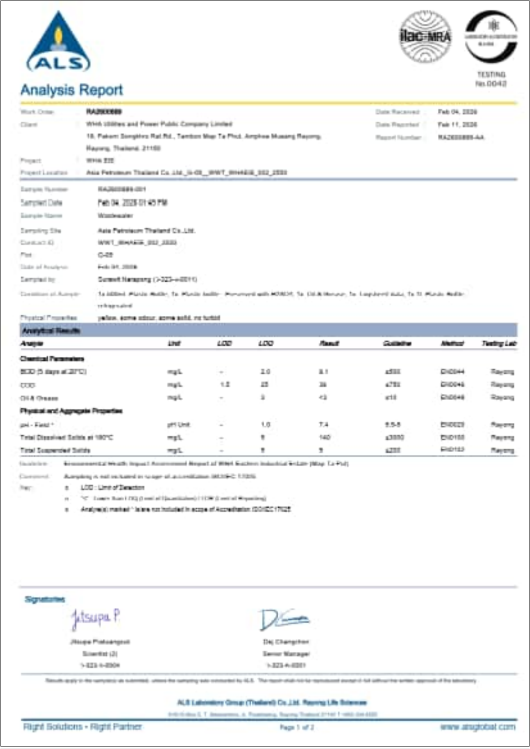

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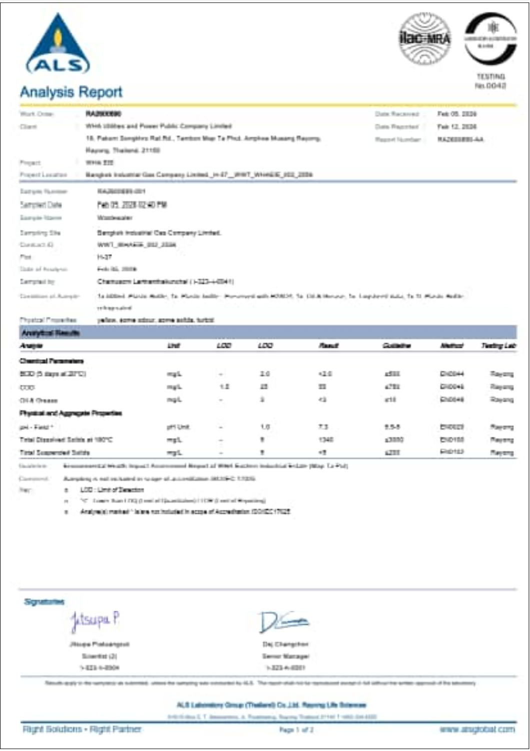

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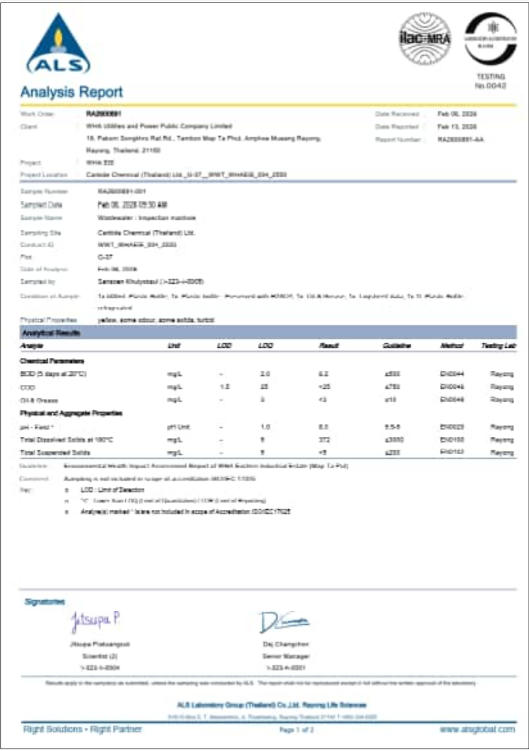

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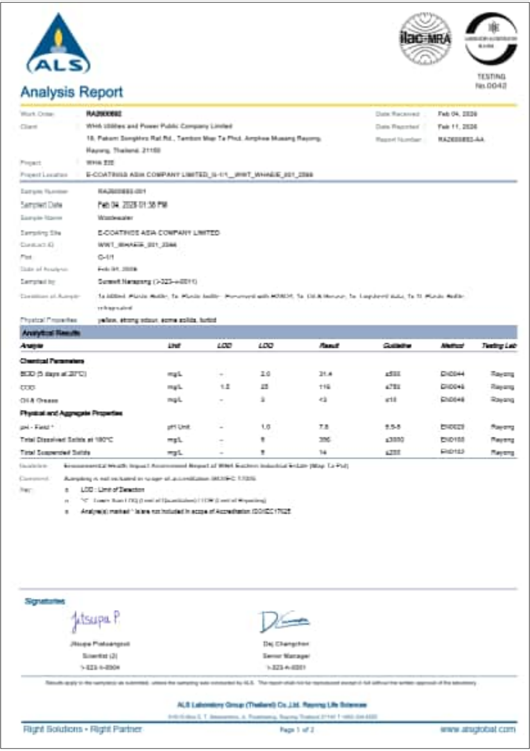

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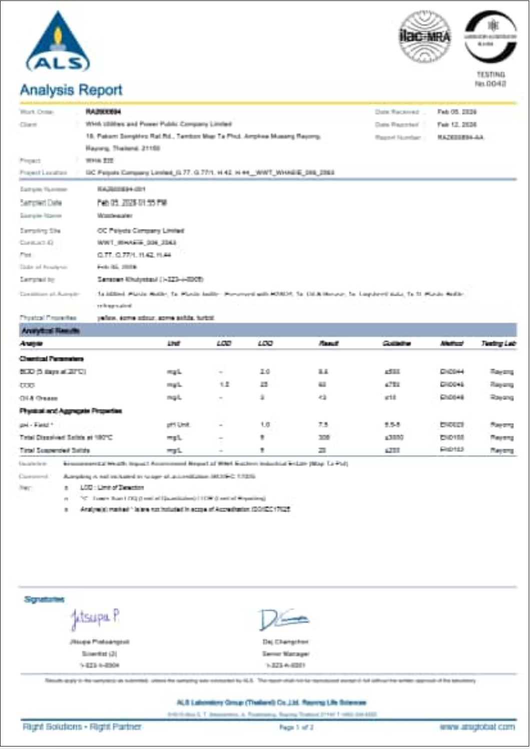

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TESTING
No.0042

Analytical Results

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No.0042

Brief Method Summaries

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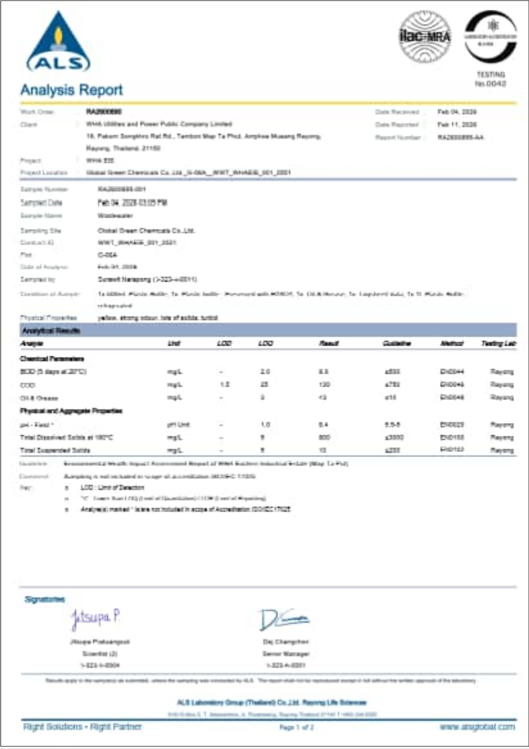

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Analytical Results

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Brief Method Summaries

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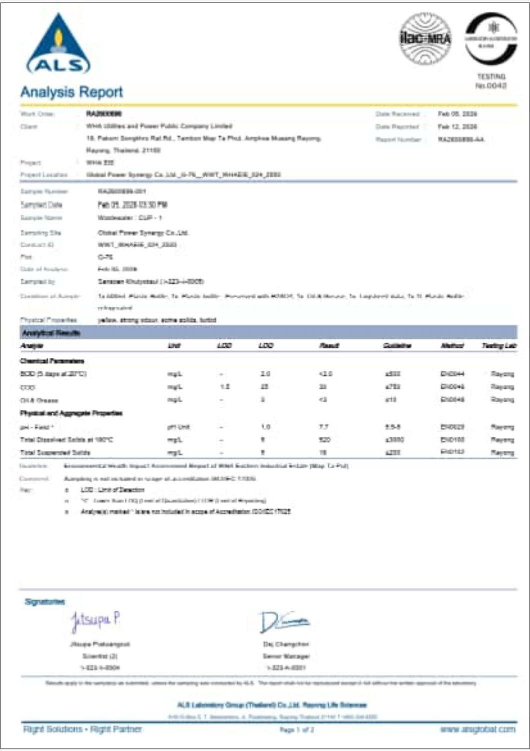

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No.0042

Analytical Results

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No.0042

Brief Method Summaries

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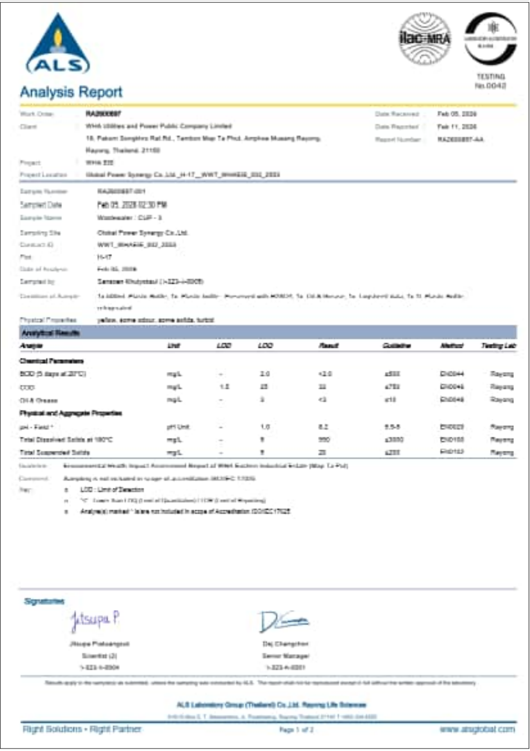

Analysis Report

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No.0042

Analytical Results

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No.0042

Brief Method Summaries

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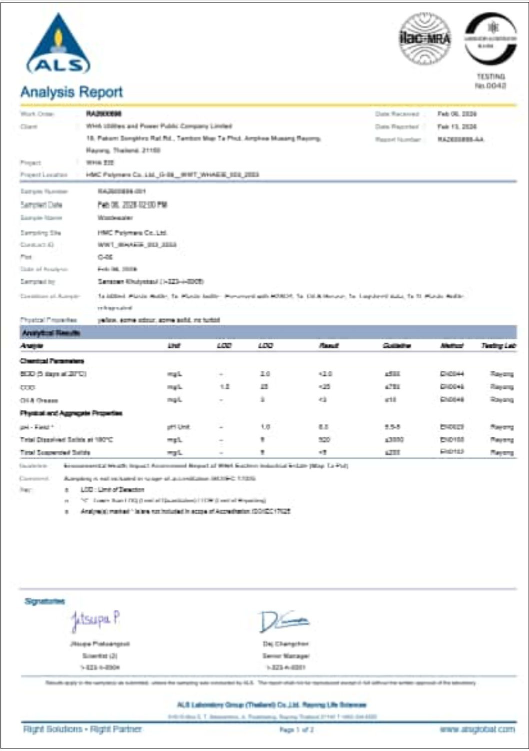

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No.0042

Analytical Results

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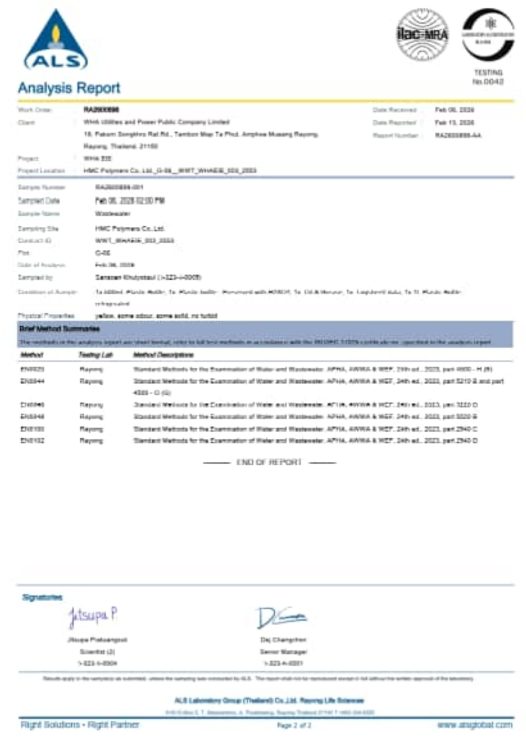
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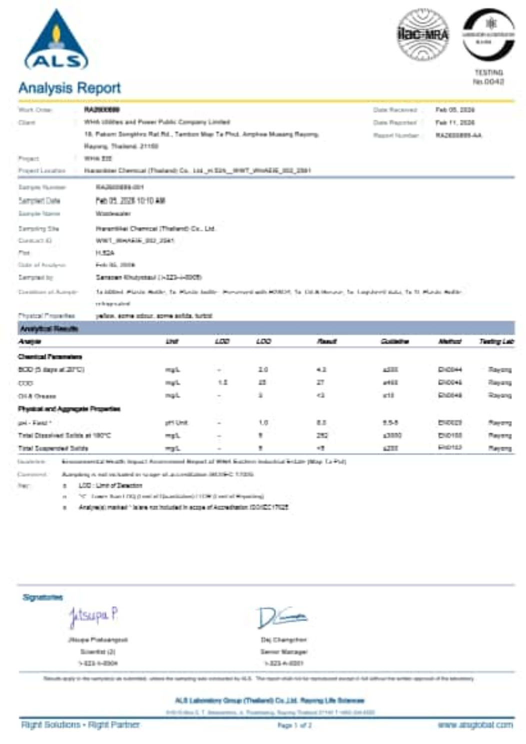
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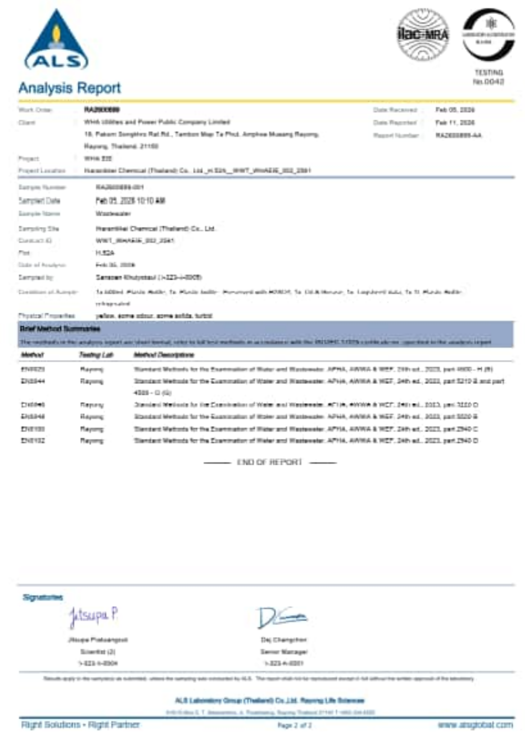
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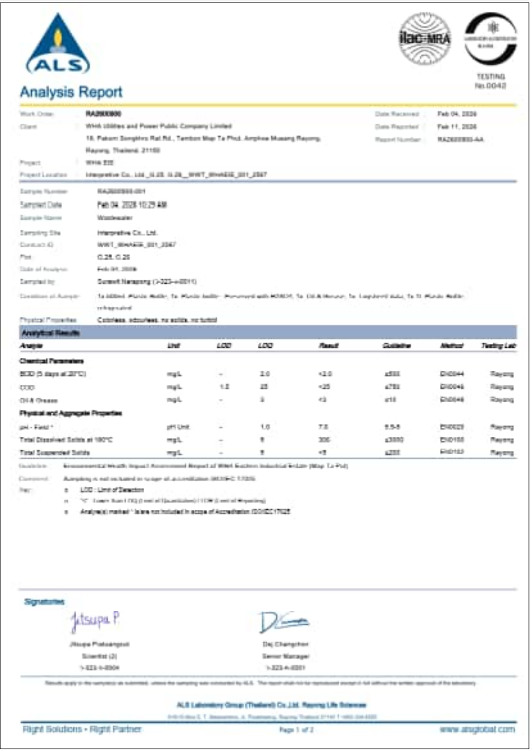
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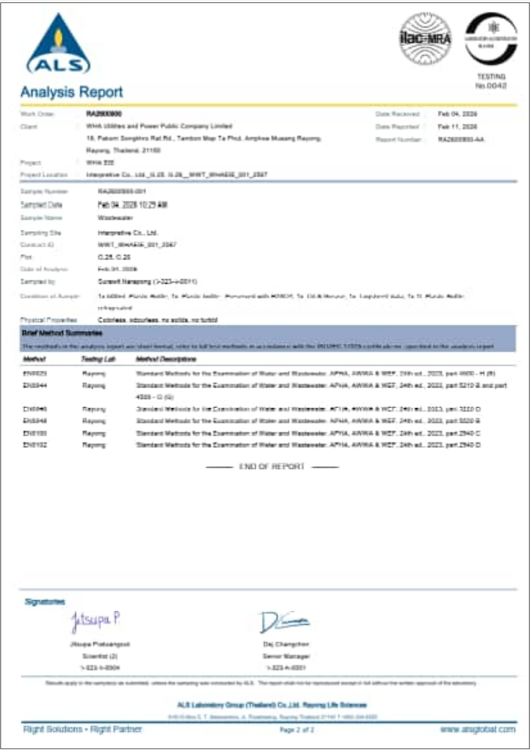
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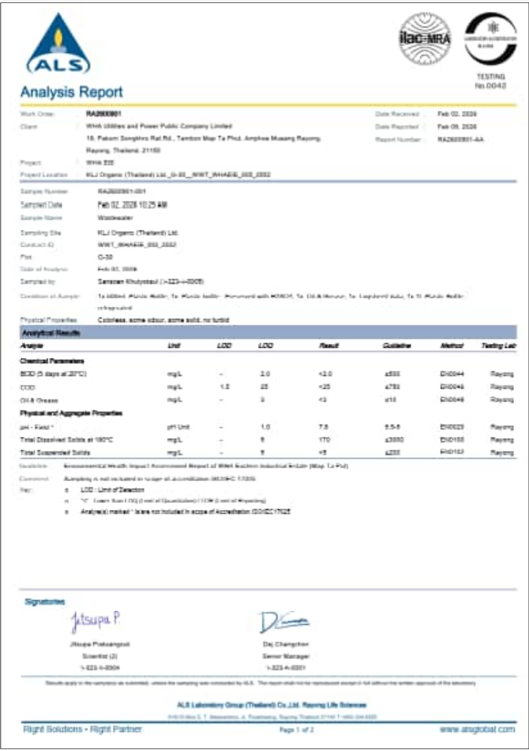
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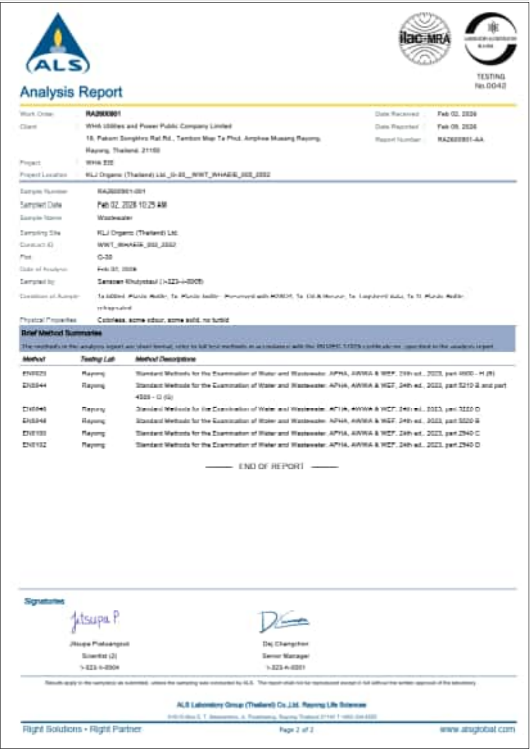
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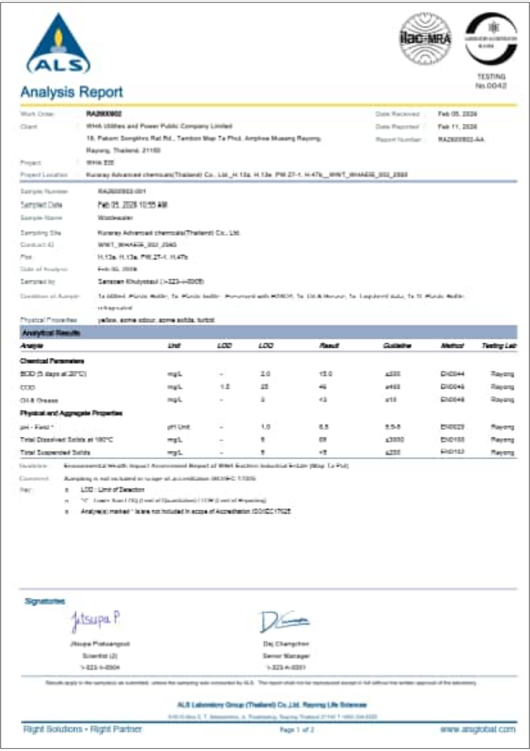
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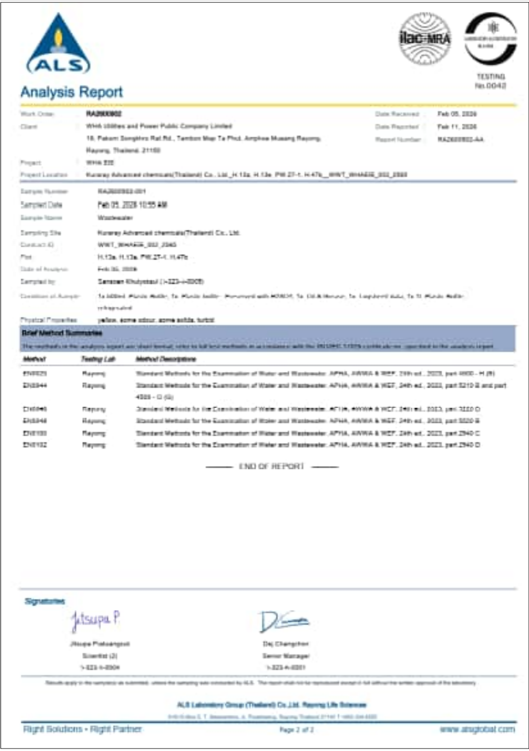
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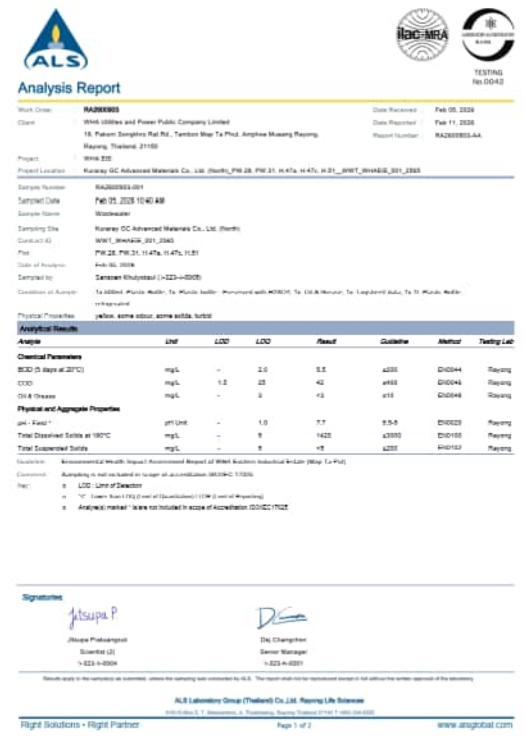

Analysis Report

TESTING No.0042

Work Order: RA2600803 | Date Received: Feb 05, 2026
Client: WHA Utilities and Power Public Company Limited | Date Reported: Feb 11, 2026
18, Pakorn Songkhro Rat Rd., Tambon Map Ta Phut, Amphoe Mueang Rayong, Rayong, Thailand. 21150 | Report Number: RA2600803-AA
Project: WHA EIE
Project Location: Kuraray GC Advanced Materials Co., Ltd. (North)_FW.28, FW.31, H.47a, H.47c, H.51__WWT_WHAEIE_001_2565

Sample Number: RA2600803-001
Sampled Date: Feb 05, 2026 10:40 AM
Sample Name: Wastewater
Sampling Site: Kuraray GC Advanced Materials Co., Ltd. (North)
Contract ID: WWT_WHAEIE_001_2565
Plot: FW.28, FW.31, H.47a, H.47c, H.51
Date of Analysis: Feb 05, 2026
Sampled by: Sanasan Khutyotsaul (I-223-I-0005)
Condition of Sample: [illegible]
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	5.5	≤500	EN0044	Rayong
COD	mg/L	1.5	25	42	≤400	EN0046	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	EN0048	Rayong
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.7	5.5-9	EN0023	Rayong
Total Dissolved Solids at 180°C	mg/L	-	5	1420	≤3000	EN0100	Rayong
Total Suspended Solids	mg/L	-	5	<5	≤200	EN0102	Rayong

Guideline: [illegible]
Comment: [illegible]
Key:
- LOD : Limit of Detection
- [illegible]
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC17025

Signatories

Jitsupa P.
Jitsupa Pisitsangpol
Scientist (2)
I-223-I-0004

Dej Changchon
Senior Manager
I-223-A-0001

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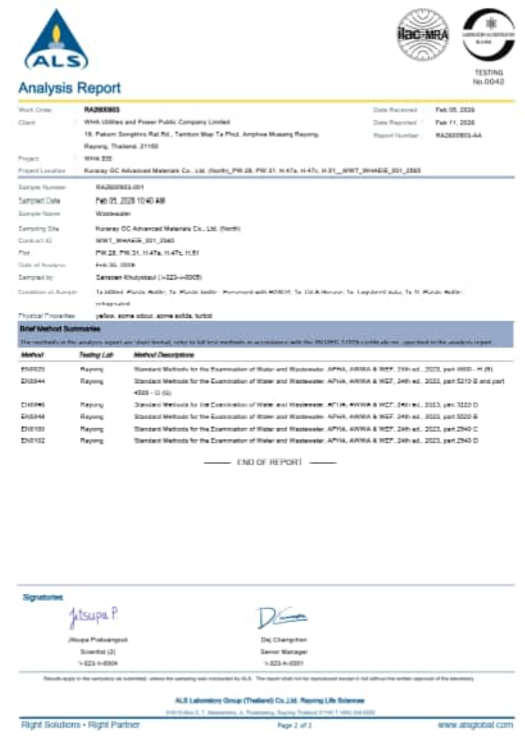

Analysis Report

TESTING No.0042

Work Order: RA2600803 | Date Received: Feb 05, 2026
Client: WHA Utilities and Power Public Company Limited | Date Reported: Feb 11, 2026
18, Pakorn Songkhro Rat Rd., Tambon Map Ta Phut, Amphoe Mueang Rayong, Rayong, Thailand. 21150 | Report Number: RA2600803-AA
Project: WHA EIE
Project Location: Kuraray GC Advanced Materials Co., Ltd. (North)_FW.28, FW.31, H.47a, H.47c, H.51__WWT_WHAEIE_001_2565

Sample Number: RA2600803-001
Sampled Date: Feb 05, 2026 10:40 AM
Sample Name: Wastewater
Sampling Site: Kuraray GC Advanced Materials Co., Ltd. (North)
Contract ID: WWT_WHAEIE_001_2565
Plot: FW.28, FW.31, H.47a, H.47c, H.51
Date of Analysis: Feb 05, 2026
Sampled by: Sanasan Khutyotsaul (I-223-I-0005)
Condition of Sample: [illegible]
Physical Properties: yellow, some odour, some solids, turbid

Brief Method Summaries

Method	Testing Lab	Method Descriptions
EN0023	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0100	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C
EN0102	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

END OF REPORT

Signatories

Jitsupa P.
Jitsupa Pisitsangpol
Scientist (2)
I-223-I-0004

Dej Changchon
Senior Manager
I-223-A-0001

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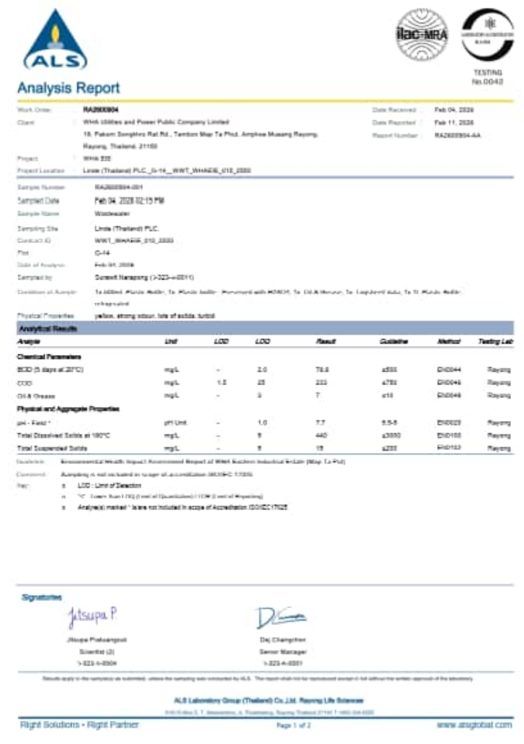

Analysis Report

TESTING No.0042

Work Order: RA2600804 | Date Received: Feb 04, 2026
Client: WHA Utilities and Power Public Company Limited | Date Reported: Feb 11, 2026
18, Pakorn Songkhro Rat Rd., Tambon Map Ta Phut, Amphoe Mueang Rayong, Rayong, Thailand. 21150 | Report Number: RA2600804-AA
Project: WHA EIE
Project Location: Linde (Thailand) PLC._G-14__WWT_WHAEIE_010_2555

Sample Number: RA2600804-001
Sampled Date: Feb 04, 2026 02:15 PM
Sample Name: Wastewater
Sampling Site: Linde (Thailand) PLC.
Contract ID: WWT_WHAEIE_010_2555
Plot: G-14
Date of Analysis: Feb 04, 2026
Sampled by: Surasit Narapong (I-223-I-0011)
Condition of Sample: [illegible]
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	78.8	≤500	EN0044	Rayong
COD	mg/L	1.5	25	222	≤750	EN0046	Rayong
Oil & Grease	mg/L	-	3	7	≤10	EN0048	Rayong
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.7	5.5-9	EN0023	Rayong
Total Dissolved Solids at 180°C	mg/L	-	5	440	≤3000	EN0100	Rayong
Total Suspended Solids	mg/L	-	5	18	≤200	EN0102	Rayong

Guideline: [illegible]
Comment: [illegible]
Key:
- LOD : Limit of Detection
- [illegible]
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC17025

Signatories

Jitsupa P.
Jitsupa Pisitsangpol
Scientist (2)
I-223-I-0004

Dej Changchon
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I-223-A-0001

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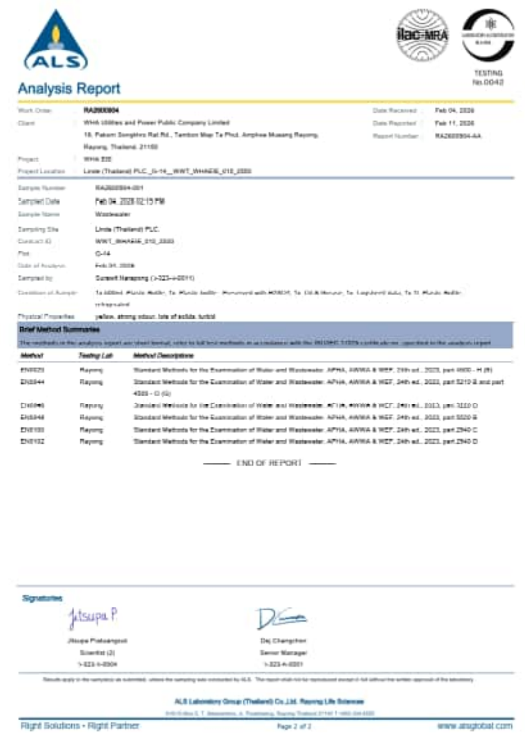

Analysis Report

TESTING No.0042

Work Order: RA2600804 | Date Received: Feb 04, 2026
Client: WHA Utilities and Power Public Company Limited | Date Reported: Feb 11, 2026
18, Pakorn Songkhro Rat Rd., Tambon Map Ta Phut, Amphoe Mueang Rayong, Rayong, Thailand. 21150 | Report Number: RA2600804-AA
Project: WHA EIE
Project Location: Linde (Thailand) PLC._G-14__WWT_WHAEIE_010_2555

Sample Number: RA2600804-001
Sampled Date: Feb 04, 2026 02:15 PM
Sample Name: Wastewater
Sampling Site: Linde (Thailand) PLC.
Contract ID: WWT_WHAEIE_010_2555
Plot: G-14
Date of Analysis: Feb 04, 2026
Sampled by: Surasit Narapong (I-223-I-0011)
Condition of Sample: [illegible]
Physical Properties: yellow, strong odour, lots of solids, turbid

Brief Method Summaries

Method	Testing Lab	Method Descriptions
EN0023	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0100	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C
EN0102	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

END OF REPORT

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Jitsupa Pisitsangpol
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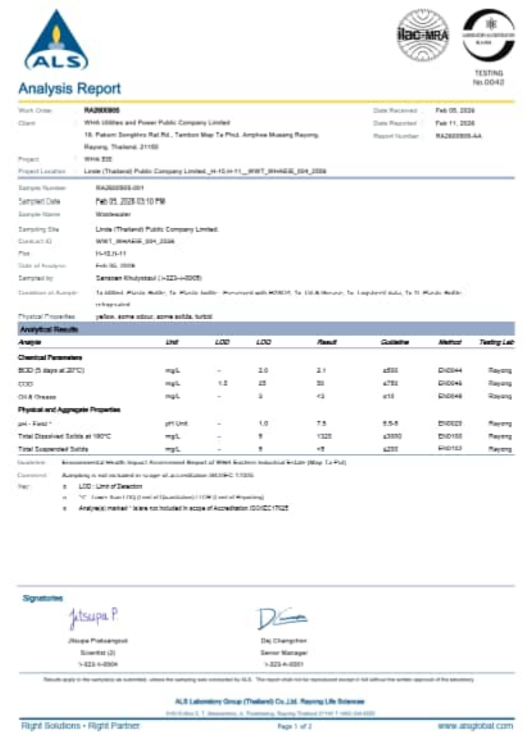

Analysis Report

TESTING No.0042

Work Order: RA2600805 | Date Received: Feb 05, 2026
Client: WHA Utilities and Power Public Company Limited | Date Reported: Feb 11, 2026
18, Pakorn Songkhro Rat Rd., Tambon Map Ta Phut, Amphoe Mueang Rayong, Rayong, Thailand. 21150 | Report Number: RA2600805-AA
Project: WHA EIE
Project Location: Linde (Thailand) Public Company Limited._H-10,H-11__WWT_WHAEIE_004_2556

Sample Number: RA2600805-001
Sampled Date: Feb 05, 2026 03:10 PM
Sample Name: Wastewater
Sampling Site: Linde (Thailand) Public Company Limited.
Contract ID: WWT_WHAEIE_004_2556
Plot: H-10,H-11
Date of Analysis: Feb 05, 2026
Sampled by: Sanasan Khutyotsaul (I-223-I-0005)
Condition of Sample: [illegible]
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	2.1	≤500	EN0044	Rayong
COD	mg/L	1.5	25	50	≤750	EN0046	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	EN0048	Rayong
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.5	5.5-9	EN0023	Rayong
Total Dissolved Solids at 180°C	mg/L	-	5	1320	≤3000	EN0100	Rayong
Total Suspended Solids	mg/L	-	5	<5	≤200	EN0102	Rayong

Guideline: [illegible]
Comment: [illegible]
Key:
- LOD : Limit of Detection
- [illegible]
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC17025

Signatories

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Jitsupa Pisitsangpol
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I-223-I-0004

Dej Changchon
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I-223-A-0001

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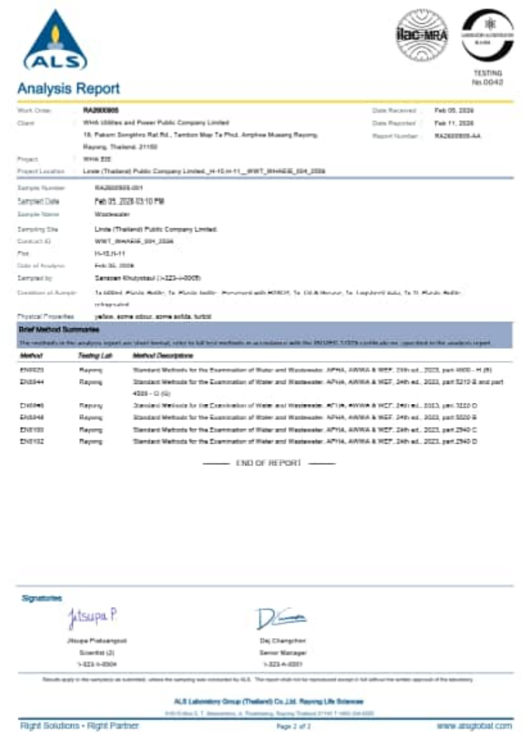

Analysis Report

TESTING No.0042

Work Order: RA2600805 | Date Received: Feb 05, 2026
Client: WHA Utilities and Power Public Company Limited | Date Reported: Feb 11, 2026
18, Pakorn Songkhro Rat Rd., Tambon Map Ta Phut, Amphoe Mueang Rayong, Rayong, Thailand. 21150 | Report Number: RA2600805-AA
Project: WHA EIE
Project Location: Linde (Thailand) Public Company Limited._H-10,H-11__WWT_WHAEIE_004_2556

Sample Number: RA2600805-001
Sampled Date: Feb 05, 2026 03:10 PM
Sample Name: Wastewater
Sampling Site: Linde (Thailand) Public Company Limited.
Contract ID: WWT_WHAEIE_004_2556
Plot: H-10,H-11
Date of Analysis: Feb 05, 2026
Sampled by: Sanasan Khutyotsaul (I-223-I-0005)
Condition of Sample: [illegible]
Physical Properties: yellow, some odour, some solids, turbid

Brief Method Summaries

Method	Testing Lab	Method Descriptions
EN0023	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0100	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C
EN0102	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

END OF REPORT

Signatories

Jitsupa P.
Jitsupa Pisitsangpol
Scientist (2)
I-223-I-0004

Dej Changchon
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I-223-A-0001

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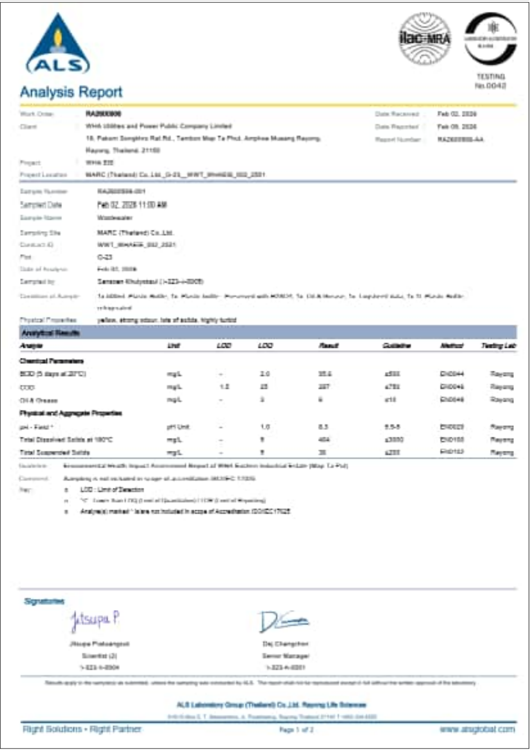

Analysis Report

TESTING No.0042

Work Order: RA2600806 | Date Received: Feb 02, 2026
Client: WHA Utilities and Power Public Company Limited | Date Reported: Feb 09, 2026
18, Pakorn Songkhro Rat Rd., Tambon Map Ta Phut, Amphoe Mueang Rayong, Rayong, Thailand. 21150 | Report Number: RA2600806-AA
Project: WHA EIE
Project Location: MARC (Thailand) Co. Ltd._G-23__WWT_WHAEIE_002_2551

Sample Number: RA2600806-001
Sampled Date: Feb 02, 2026 11:00 AM
Sample Name: Wastewater
Sampling Site: MARC (Thailand) Co.,Ltd.
Contract ID: WWT_WHAEIE_002_2551
Plot: G-23
Date of Analysis: Feb 02, 2026
Sampled by: Sanasan Khutyotsaul (I-223-I-0005)
Condition of Sample: [illegible]
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	35.6	≤500	EN0044	Rayong
COD	mg/L	1.5	25	207	≤750	EN0046	Rayong
Oil & Grease	mg/L	-	3	6	≤10	EN0048	Rayong
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	8.3	5.5-9	EN0023	Rayong
Total Dissolved Solids at 180°C	mg/L	-	5	464	≤3000	EN0100	Rayong
Total Suspended Solids	mg/L	-	5	38	≤200	EN0102	Rayong

Guideline: [illegible]
Comment: [illegible]
Key:
- LOD : Limit of Detection
- [illegible]
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC17025

Signatories

Jitsupa P.
Jitsupa Pisitsangpol
Scientist (2)
I-223-I-0004

Dej Changchon
Senior Manager
I-223-A-0001

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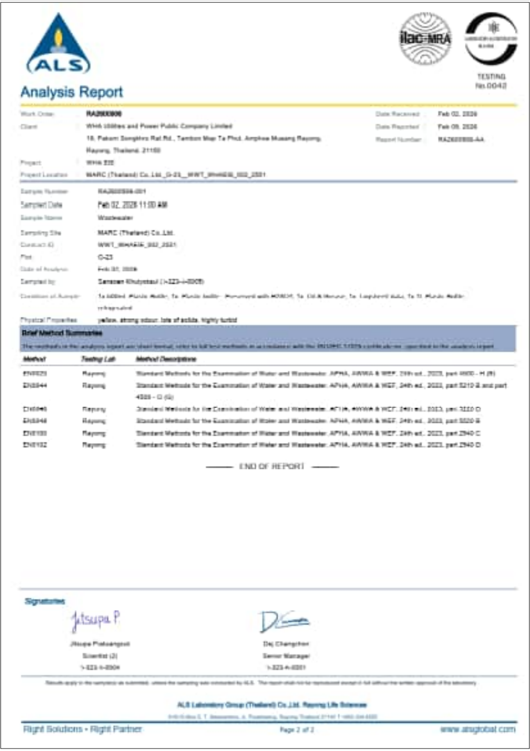

Analysis Report

TESTING No.0042

Work Order: RA2600806 | Date Received: Feb 02, 2026
Client: WHA Utilities and Power Public Company Limited | Date Reported: Feb 09, 2026
18, Pakorn Songkhro Rat Rd., Tambon Map Ta Phut, Amphoe Mueang Rayong, Rayong, Thailand. 21150 | Report Number: RA2600806-AA
Project: WHA EIE
Project Location: MARC (Thailand) Co. Ltd._G-23__WWT_WHAEIE_002_2551

Sample Number: RA2600806-001
Sampled Date: Feb 02, 2026 11:00 AM
Sample Name: Wastewater
Sampling Site: MARC (Thailand) Co.,Ltd.
Contract ID: WWT_WHAEIE_002_2551
Plot: G-23
Date of Analysis: Feb 02, 2026
Sampled by: Sanasan Khutyotsaul (I-223-I-0005)
Condition of Sample: [illegible]
Physical Properties: yellow, strong odour, lots of solids, highly turbid

Brief Method Summaries

Method	Testing Lab	Method Descriptions
EN0023	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0100	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C
EN0102	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

END OF REPORT

Signatories

Jitsupa P.
Jitsupa Pisitsangpol
Scientist (2)
I-223-I-0004

Dej Changchon
Senior Manager
I-223-A-0001

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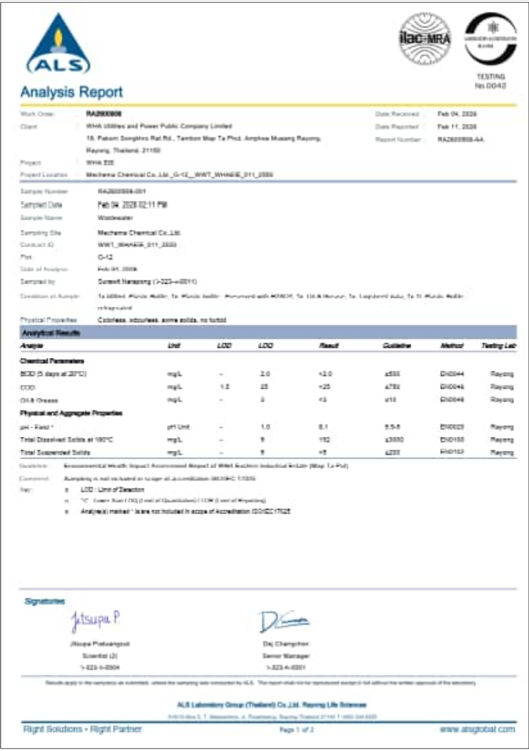

Analysis Report

TESTING No.0042

Work Order: RA2600808 | Date Received: Feb 04, 2026
Client: WHA Utilities and Power Public Company Limited | Date Reported: Feb 11, 2026
18, Pakorn Songkhro Rat Rd., Tambon Map Ta Phut, Amphoe Mueang Rayong, Rayong, Thailand. 21150 | Report Number: RA2600808-AA
Project: WHA EIE
Project Location: Mechema Chemical Co. Ltd._G-12__WWT_WHAEIE_011_2555

Sample Number: RA2600808-001
Sampled Date: Feb 04, 2026 02:11 PM
Sample Name: Wastewater
Sampling Site: Mechema Chemical Co.,Ltd.
Contract ID: WWT_WHAEIE_011_2555
Plot: G-12
Date of Analysis: Feb 04, 2026
Sampled by: Surasit Narapong (I-223-I-0011)
Condition of Sample: [illegible]
Physical Properties: Colorless, odourless, some solids, no 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	Rayong
COD	mg/L	1.5	25	<25	≤750	EN0046	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	EN0048	Rayong
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	8.1	5.5-9	EN0023	Rayong
Total Dissolved Solids at 180°C	mg/L	-	5	152	≤3000	EN0100	Rayong
Total Suspended Solids	mg/L	-	5	<5	≤200	EN0102	Rayong

Guideline: [illegible]
Comment: [illegible]
Key:
- LOD : Limit of Detection
- [illegible]
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC17025

Signatories

Jitsupa P.
Jitsupa Pisitsangpol
Scientist (2)
I-223-I-0004

Dej Changchon
Senior Manager
I-223-A-0001

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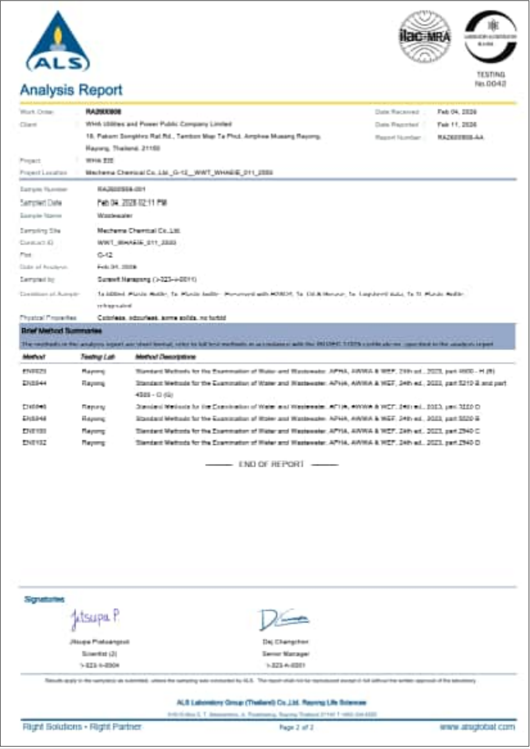

Analysis Report

TESTING No.0042

Work Order: RA2600908
Client: WHA Utilities and Power Public Company Limited
18, Pakorn Songkhro Rat Rd., Tambon Map Ta Phut, Amphoe Mueang Rayong, Rayong, Thailand, 21150
Project: WHA EIE
Project Location: Mechema Chemical Co.,Ltd._G-12__WWT_WHAEIE_011_2569
Date Received: Feb 04, 2026
Date Reported: Feb 11, 2026
Report Number: RA2600908-AA

Sample Number: RA2600908-001
Sampled Date: Feb 04, 2026 02:11 PM
Sample Name: Wastewater
Sampling Site: Mechema Chemical Co.,Ltd.
Plot: G-12
Sampled by: Surasit Narapong
Physical Properties: Colorless, odourless, some solids, no turbid

Brief Method Summaries

Method	Testing Lab	Method Descriptions
EN0023	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0100	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C
EN0102	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

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Signatories
Jitsupa P.
Scientist (2)
Senior Manager

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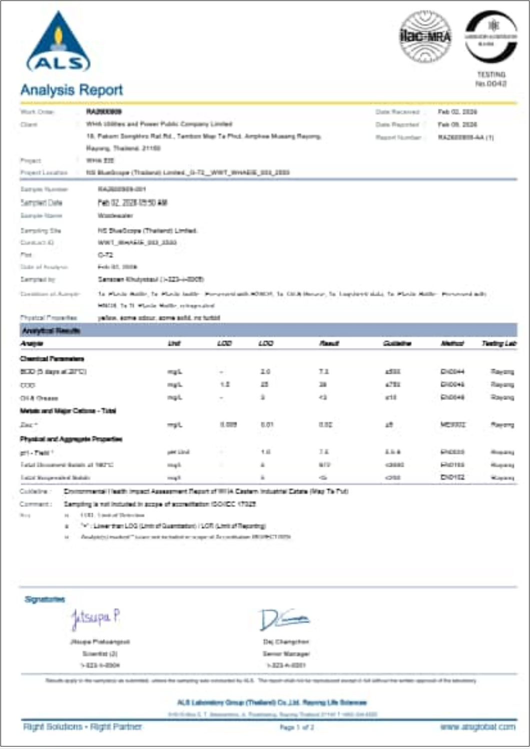

Analysis Report

TESTING No.0042

Work Order: RA2600909
Client: WHA Utilities and Power Public Company Limited
18, Pakorn Songkhro Rat Rd., Tambon Map Ta Phut, Amphoe Mueang Rayong, Rayong, Thailand, 21150
Project: WHA EIE
Project Location: NS BlueScope (Thailand) Limited._G-72__WWT_WHAEIE_003_2569
Date Received: Feb 02, 2026
Date Reported: Feb 09, 2026
Report Number: RA2600909-AA (1)

Sample Number: RA2600909-001
Sampled Date: Feb 02, 2026 09:50 AM
Sample Name: Wastewater
Sampling Site: NS BlueScope (Thailand) Limited.
Plot: G-72
Sampled by: Sarawan Khutyotsai
Physical Properties: yellow, some odour, some solid, no turbid

Analytical Results

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	7.3	≤500	EN0044	Rayong
COD	mg/L	1.5	25	38	≤750	EN0046	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	EN0048	Rayong
Metals and Major Cations - Total							
Zinc *	mg/L	0.005	0.01	0.02	≤5	ME0002	Rayong
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.5	5.5-9	EN0023	Rayong
Total Dissolved Solids at 180°C	mg/L	-	5	870	≤3000	EN0100	Rayong
Total Suspended Solids	mg/L	-	5	<5	≤200	EN0102	Rayong

Guideline: Environmental Health Impact Assessment Report of WHA Eastern Industrial Estate (Map Ta Phut)
Comment: Sampling is not included in scope of accreditation ISO/IEC 17025
Key: "<": Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)

Signatories
Jitsupa P.
Scientist (2)
Senior Manager

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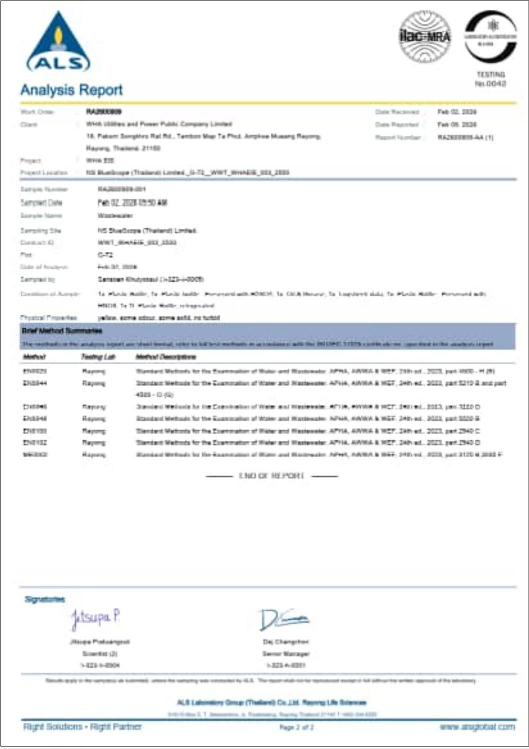

Analysis Report

TESTING No.0042

Work Order: RA2600909
Client: WHA Utilities and Power Public Company Limited
Project Location: NS BlueScope (Thailand) Limited._G-72__WWT_WHAEIE_003_2569
Date Received: Feb 02, 2026
Date Reported: Feb 09, 2026
Report Number: RA2600909-AA (1)

Sample Number: RA2600909-001
Sampled Date: Feb 02, 2026 09:50 AM
Sample Name: Wastewater
Sampling Site: NS BlueScope (Thailand) Limited.
Plot: G-72
Physical Properties: yellow, some odour, some solid, no turbid

Brief Method Summaries

Method	Testing Lab	Method Descriptions
EN0023	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0100	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C
EN0102	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D
ME0002	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3120 B, 3030 F

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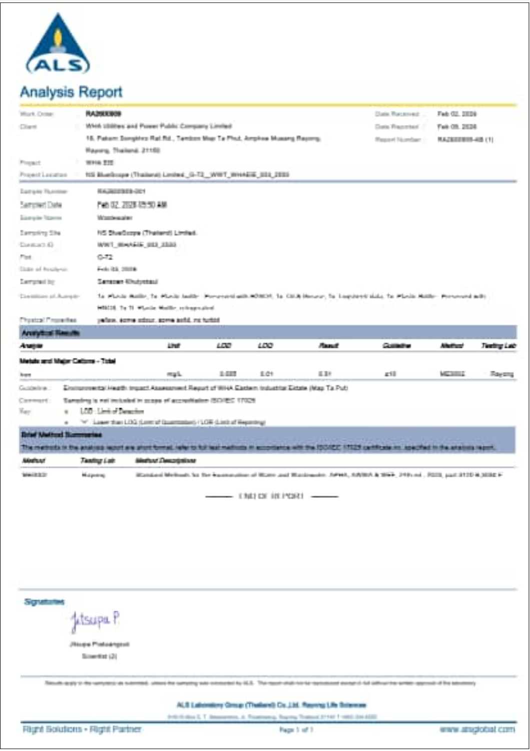

Analysis Report

Work Order: RA2600909
Client: WHA Utilities and Power Public Company Limited
Project Location: NS BlueScope (Thailand) Limited._G-72__WWT_WHAEIE_003_2569
Date Received: Feb 02, 2026
Date Reported: Feb 09, 2026
Report Number: RA2600909-AB (1)

Sample Number: RA2600909-001
Sampled Date: Feb 02, 2026 09:50 AM
Sample Name: Wastewater
Sampling Site: NS BlueScope (Thailand) Limited.
Plot: G-72
Sampled by: Sarawan Khutyotsai
Physical Properties: yellow, some odour, some solid, no turbid

Analytical Results

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Metals and Major Cations - Total							
Iron	mg/L	0.005	0.01	0.01	≤10	ME0002	Rayong

Guideline: Environmental Health Impact Assessment Report of WHA Eastern Industrial Estate (Map Ta Phut)
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)

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
ME0002	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3120 B, 3030 F

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Signatories
Jitsupa P.
Scientist (2)

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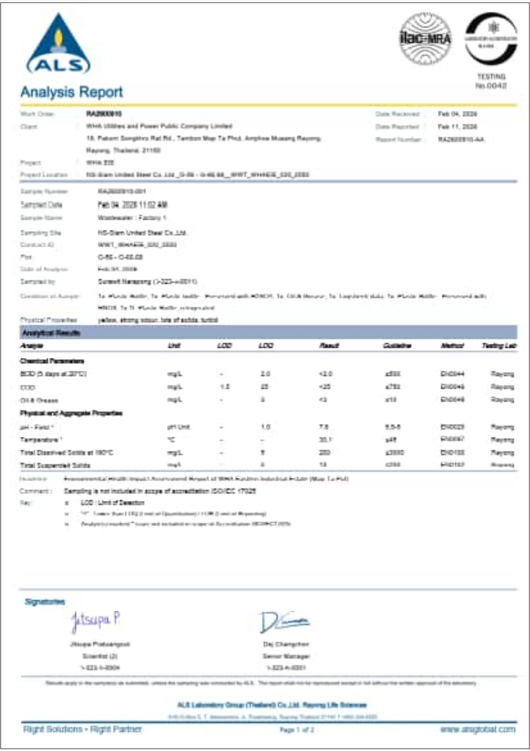

Analysis Report

TESTING No.0042

Work Order: RA2600910
Client: WHA Utilities and Power Public Company Limited
18, Pakorn Songkhro Rat Rd., Tambon Map Ta Phut, Amphoe Mueang Rayong, Rayong, Thailand, 21150
Project: WHA EIE
Project Location: NS-Siam United Steel Co.,Ltd._G-86 - G-66.68__WWT_WHAEIE_020_2569
Date Received: Feb 04, 2026
Date Reported: Feb 11, 2026
Report Number: RA2600910-AA

Sample Number: RA2600910-001
Sampled Date: Feb 04, 2026 11:02 AM
Sample Name: Wastewater : Factory 1
Sampling Site: NS-Siam United Steel Co.,Ltd.
Plot: G-86 - G-66.68
Sampled by: Surasit Narapong
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	<2.0	≤500	EN0044	Rayong
COD	mg/L	1.5	25	<25	≤750	EN0046	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	EN0048	Rayong
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.8	5.5-9	EN0023	Rayong
Temperature *	°C	-	-	30.1	≤45	EN0097	Rayong
Total Dissolved Solids at 180°C	mg/L	-	5	220	≤3000	EN0100	Rayong
Total Suspended Solids	mg/L	-	5	18	≤200	EN0102	Rayong

Guideline: Environmental Health Impact Assessment Report of WHA Eastern Industrial Estate (Map Ta Phut)
Comment: Sampling is not included in scope of accreditation ISO/IEC 17025
Key: LOD : Limit of Detection

Signatories
Jitsupa P.
Scientist (2)
Senior Manager

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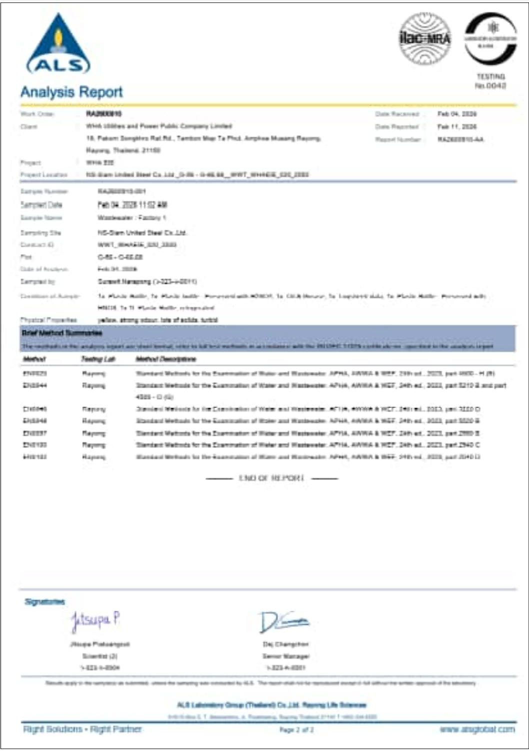

Analysis Report

TESTING No.0042

Work Order: RA2600910
Client: WHA Utilities and Power Public Company Limited
Project Location: NS-Siam United Steel Co.,Ltd._G-86 - G-66.68__WWT_WHAEIE_020_2569
Date Received: Feb 04, 2026
Date Reported: Feb 11, 2026
Report Number: RA2600910-AA

Sample Number: RA2600910-001
Sampled Date: Feb 04, 2026 11:02 AM
Sample Name: Wastewater : Factory 1
Sampling Site: NS-Siam United Steel Co.,Ltd.
Plot: G-86 - G-66.68
Physical Properties: yellow, strong odour, lots of solids, turbid

Brief Method Summaries

Method	Testing Lab	Method Descriptions
EN0023	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0097	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B
EN0100	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C
EN0102	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

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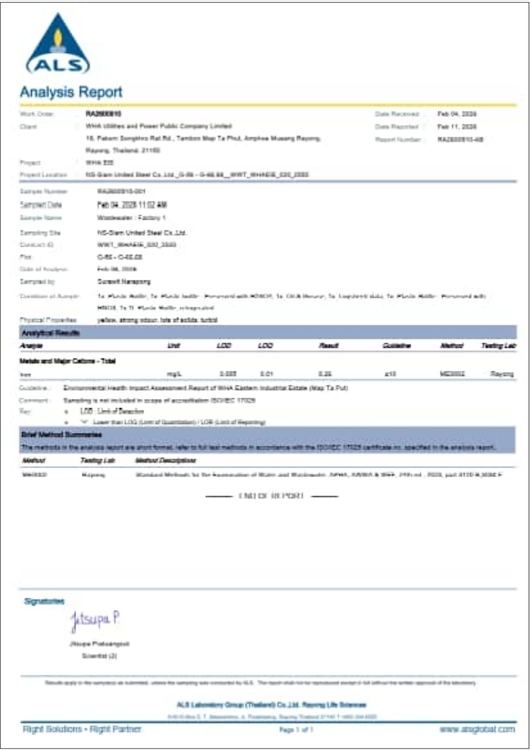

Analysis Report

Work Order: RA2600910
Client: WHA Utilities and Power Public Company Limited
Project Location: NS-Siam United Steel Co.,Ltd._G-86 - G-66.68__WWT_WHAEIE_020_2569
Date Received: Feb 04, 2026
Date Reported: Feb 11, 2026
Report Number: RA2600910-AB

Sample Number: RA2600910-001
Sampled Date: Feb 04, 2026 11:02 AM
Sample Name: Wastewater : Factory 1
Sampling Site: NS-Siam United Steel Co.,Ltd.
Plot: G-86 - G-66.68
Sampled by: Surasit Narapong
Physical Properties: yellow, strong odour, lots of solids, turbid

Analytical Results

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Metals and Major Cations - Total							
Iron	mg/L	0.005	0.01	0.26	≤10	ME0002	Rayong

Guideline: Environmental Health Impact Assessment Report of WHA Eastern Industrial Estate (Map Ta Phut)
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)

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
ME0002	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3120 B, 3030 F

—— END OF REPORT ——

Signatories
Jitsupa P.
Scientist (2)

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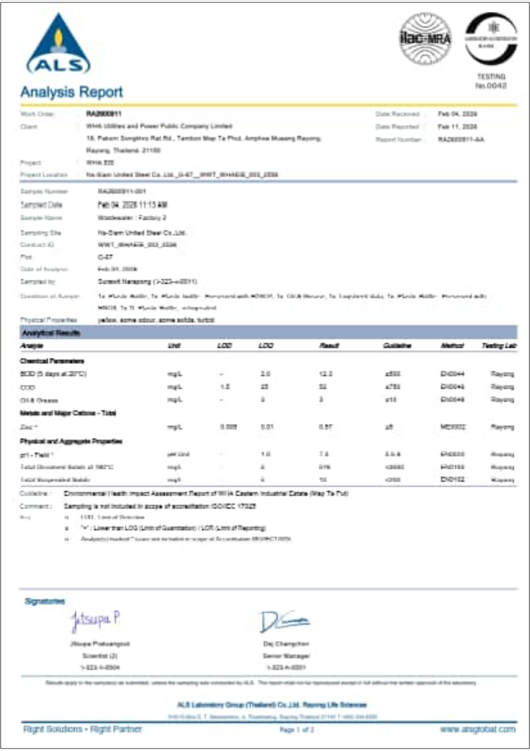

Analysis Report

TESTING No.0042

Work Order: RA2600911
Client: WHA Utilities and Power Public Company Limited
18, Pakorn Songkhro Rat Rd., Tambon Map Ta Phut, Amphoe Mueang Rayong, Rayong, Thailand, 21150
Project: WHA EIE
Project Location: Ns-Siam United Steel Co.,Ltd._G-67__WWT_WHAEIE_033_2569
Date Received: Feb 04, 2026
Date Reported: Feb 11, 2026
Report Number: RA2600911-AA

Sample Number: RA2600911-001
Sampled Date: Feb 04, 2026 11:13 AM
Sample Name: Wastewater : Factory 2
Sampling Site: Ns-Siam United Steel Co.,Ltd.
Plot: G-67
Sampled by: Surasit Narapong
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	Rayong
COD	mg/L	1.5	25	52	≤750	EN0046	Rayong
Oil & Grease	mg/L	-	3	3	≤10	EN0048	Rayong
Metals and Major Cations - Total							
Zinc *	mg/L	0.005	0.01	0.57	≤5	ME0002	Rayong
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.8	5.5-9	EN0023	Rayong
Total Dissolved Solids at 180°C	mg/L	-	5	976	≤3000	EN0100	Rayong
Total Suspended Solids	mg/L	-	5	10	≤200	EN0102	Rayong

Guideline: Environmental Health Impact Assessment Report of WHA Eastern Industrial Estate (Map Ta Phut)
Comment: Sampling is not included in scope of accreditation ISO/IEC 17025
Key: "<": Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)

Signatories
Jitsupa P.
Scientist (2)
Senior Manager

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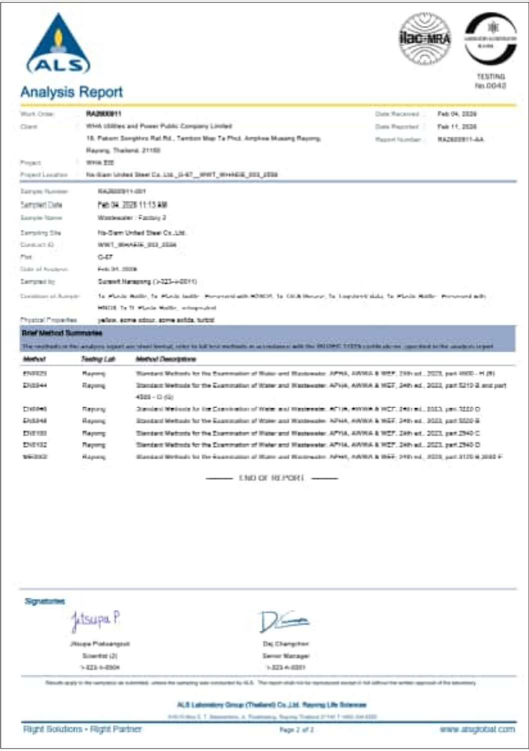

Analysis Report

TESTING No.0042

Work Order: RA2600911
Client: WHA Utilities and Power Public Company Limited
Project Location: Ns-Siam United Steel Co.,Ltd._G-67__WWT_WHAEIE_033_2569
Date Received: Feb 04, 2026
Date Reported: Feb 11, 2026
Report Number: RA2600911-AA

Sample Number: RA2600911-001
Sampled Date: Feb 04, 2026 11:13 AM
Sample Name: Wastewater : Factory 2
Sampling Site: Ns-Siam United Steel Co.,Ltd.
Plot: G-67
Physical Properties: yellow, some odour, some solids, turbid

Brief Method Summaries

Method	Testing Lab	Method Descriptions
EN0023	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0100	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C
EN0102	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D
ME0002	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3120 B, 3030 F

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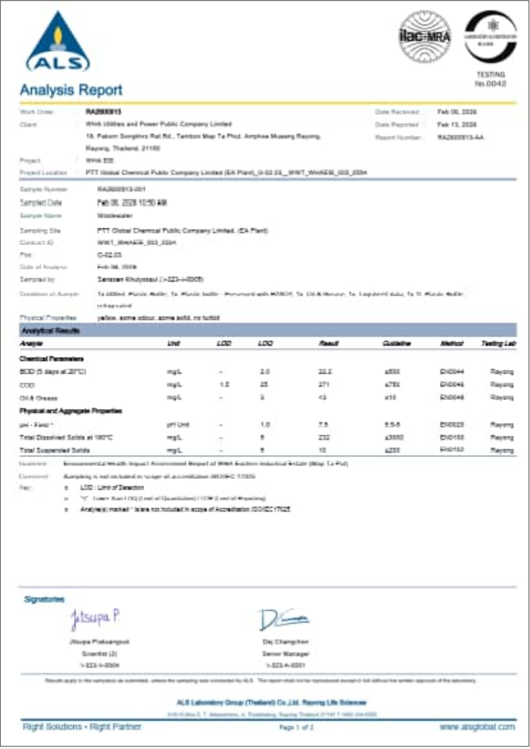

Analysis Report

TESTING No.0042

Work Order	RA2600913	Date Received	Feb 06, 2026
Client	WHA Utilities and Power Public Company Limited 18, Pakorn Songkhro Rat Rd., Tambon Map Ta Phut, Amphoe Mueang Rayong, Rayong, Thailand, 21150	Date Reported	Feb 13, 2026
		Report Number	RA2600913-AA
Project	WHA EIE		
Project Location	PTT Global Chemical Public Company Limited (EA Plant)_O-02.03__WWT_WHAEIE_003_2564		

Sample Number: RA2600913-001
Sampled Date: Feb 06, 2026 10:50 AM
Sample Name: Wastewater
Sampling Site: PTT Global Chemical Public Company Limited. (EA Plant)
Contract ID: WWT_WHAEIE_003_2564
Plot: O-02.03
Date of Analysis: Feb 06, 2026
Sampled by: Sansoan Khutyotsaul (I-323-I-0005)
Condition of Sample: [illegible]
Physical Properties: yellow, some odour, some solid, no turbid

Analytical Results

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	22.2	≤500	EN0044	Rayong
COD	mg/L	1.5	25	271	≤750	EN0046	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	EN0048	Rayong
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.5	5.5-9	EN0023	Rayong
Total Dissolved Solids at 180°C	mg/L	-	5	232	≤3000	EN0100	Rayong
Total Suspended Solids	mg/L	-	5	10	≤200	EN0102	Rayong

Guideline: Environmental Health Impact Assessment Report of WHA Eastern Industrial Estate (Map Ta Phut)
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

Jitsupa P.
Jitsupa Piatuangsut
Scientist (2)
I-323-I-0004

Dej Changchon
Senior Manager
I-323-A-0001

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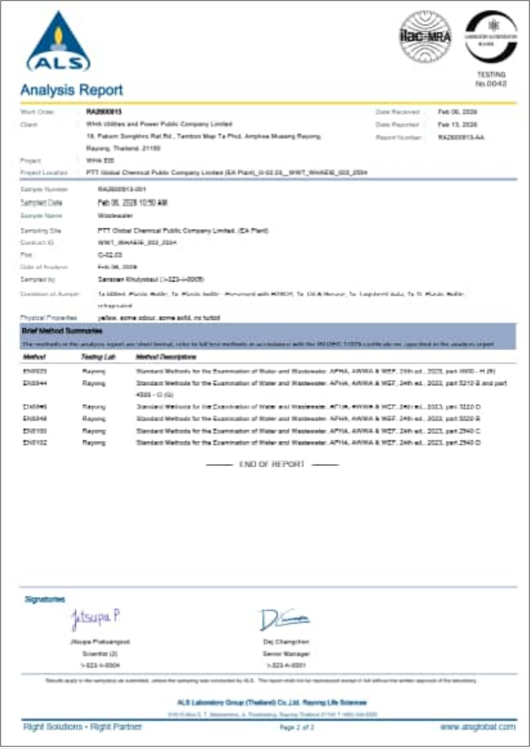

Analysis Report

TESTING No.0042

Work Order	RA2600913	Date Received	Feb 06, 2026
Client	WHA Utilities and Power Public Company Limited 18, Pakorn Songkhro Rat Rd., Tambon Map Ta Phut, Amphoe Mueang Rayong, Rayong, Thailand, 21150	Date Reported	Feb 13, 2026
		Report Number	RA2600913-AA
Project	WHA EIE		
Project Location	PTT Global Chemical Public Company Limited (EA Plant)_O-02.03__WWT_WHAEIE_003_2564		

Sample Number: RA2600913-001
Sampled Date: Feb 06, 2026 10:50 AM
Sample Name: Wastewater
Sampling Site: PTT Global Chemical Public Company Limited. (EA Plant)
Contract ID: WWT_WHAEIE_003_2564
Plot: O-02.03
Date of Analysis: Feb 06, 2026
Sampled by: Sansoan Khutyotsaul (I-323-I-0005)
Condition of Sample: [illegible]
Physical Properties: yellow, some odour, some solid, no 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
EN0023	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0100	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C
EN0102	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

END OF REPORT

Signatories

Jitsupa P.
Jitsupa Piatuangsut
Scientist (2)
I-323-I-0004

Dej Changchon
Senior Manager
I-323-A-0001

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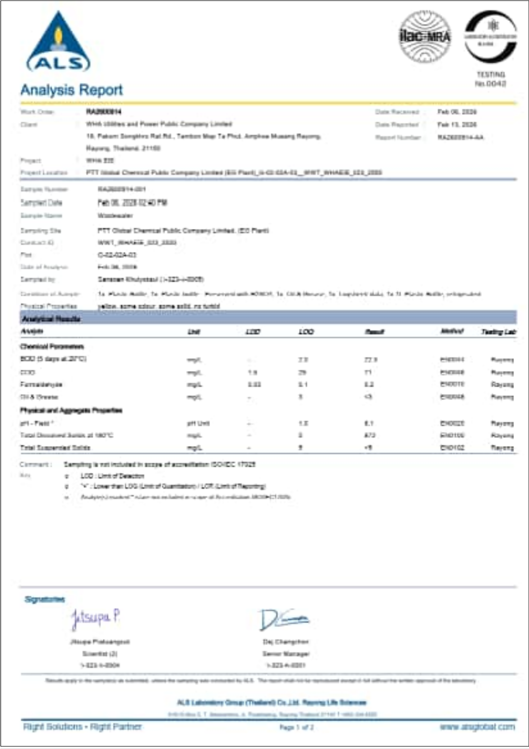

Analysis Report

TESTING No.0042

Work Order	RA2600914	Date Received	Feb 06, 2026
Client	WHA Utilities and Power Public Company Limited 18, Pakorn Songkhro Rat Rd., Tambon Map Ta Phut, Amphoe Mueang Rayong, Rayong, Thailand, 21150	Date Reported	Feb 13, 2026
		Report Number	RA2600914-AA
Project	WHA EIE		
Project Location	PTT Global Chemical Public Company Limited (EO Plant)_O-02-02A-03__WWT_WHAEIE_023_2565		

Sample Number: RA2600914-001
Sampled Date: Feb 06, 2026 02:40 PM
Sample Name: Wastewater
Sampling Site: PTT Global Chemical Public Company Limited. (EO Plant)
Contract ID: WWT_WHAEIE_023_2565
Plot: O-02-02A-03
Date of Analysis: Feb 06, 2026
Sampled by: Sansoan Khutyotsaul (I-323-I-0005)
Condition of Sample: [illegible]
Physical Properties: yellow, some odour, some solid, no turbid

Analytical Results

Analyte	Unit	LOD	LOQ	Result	Method	Testing Lab
Chemical Parameters						
BOD (5 days at 20°C)	mg/L	-	2.0	22.9	EN0044	Rayong
COD	mg/L	1.5	25	71	EN0046	Rayong
Formaldehyde	mg/L	0.03	0.1	0.2	EN0010	Rayong
Oil & Grease	mg/L	-	3	<3	EN0048	Rayong
Physical and Aggregate Properties						
pH - Field *	pH Unit	-	1.0	8.1	EN0023	Rayong
Total Dissolved Solids at 180°C	mg/L	-	5	872	EN0100	Rayong
Total Suspended Solids	mg/L	-	5	<5	EN0102	Rayong

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

Jitsupa P.
Jitsupa Piatuangsut
Scientist (2)
I-323-I-0004

Dej Changchon
Senior Manager
I-323-A-0001

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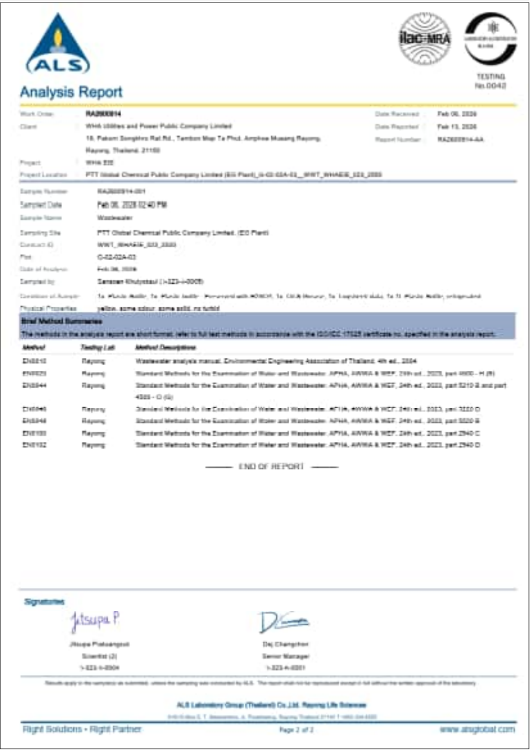

Analysis Report

TESTING No.0042

Work Order	RA2600914	Date Received	Feb 06, 2026
Client	WHA Utilities and Power Public Company Limited 18, Pakorn Songkhro Rat Rd., Tambon Map Ta Phut, Amphoe Mueang Rayong, Rayong, Thailand, 21150	Date Reported	Feb 13, 2026
		Report Number	RA2600914-AA
Project	WHA EIE		
Project Location	PTT Global Chemical Public Company Limited (EO Plant)_O-02-02A-03__WWT_WHAEIE_023_2565		

Sample Number: RA2600914-001
Sampled Date: Feb 06, 2026 02:40 PM
Sample Name: Wastewater
Sampling Site: PTT Global Chemical Public Company Limited. (EO Plant)
Contract ID: WWT_WHAEIE_023_2565
Plot: O-02-02A-03
Date of Analysis: Feb 06, 2026
Sampled by: Sansoan Khutyotsaul (I-323-I-0005)
Condition of Sample: [illegible]
Physical Properties: yellow, some odour, some solid, no 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	Rayong	Wastewater analysis manual, Environmental Engineering Association of Thailand, 4th ed., 2004
EN0023	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0100	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C
EN0102	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

END OF REPORT

Signatories

Jitsupa P.
Jitsupa Piatuangsut
Scientist (2)
I-323-I-0004

Dej Changchon
Senior Manager
I-323-A-0001

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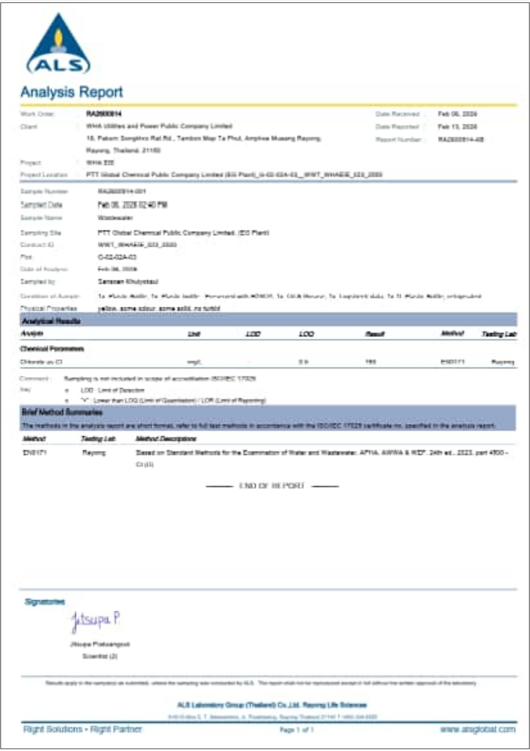

Analysis Report

TESTING No.0042

Work Order	RA2600914	Date Received	Feb 06, 2026
Client	WHA Utilities and Power Public Company Limited 18, Pakorn Songkhro Rat Rd., Tambon Map Ta Phut, Amphoe Mueang Rayong, Rayong, Thailand, 21150	Date Reported	Feb 13, 2026
		Report Number	RA2600914-AB
Project	WHA EIE		
Project Location	PTT Global Chemical Public Company Limited (EO Plant)_O-02-02A-03__WWT_WHAEIE_023_2565		

Sample Number: RA2600914-001
Sampled Date: Feb 06, 2026 02:40 PM
Sample Name: Wastewater
Sampling Site: PTT Global Chemical Public Company Limited. (EO Plant)
Contract ID: WWT_WHAEIE_023_2565
Plot: O-02-02A-03
Date of Analysis: Feb 06, 2026
Sampled by: Sansoan Khutyotsaul
Condition of Sample: [illegible]
Physical Properties: yellow, some odour, some solid, no turbid

Analytical Results

Analyte	Unit	LOD	LOQ	Result	Method	Testing Lab
Chemical Parameters						
Chloride as Cl	mg/L	-	0.5	189	EN0171	Rayong

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)

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
EN0171	Rayong	Based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - Cl (B)

END OF REPORT

Signatories

Jitsupa P.
Jitsupa Piatuangsut
Scientist (2)

Dej Changchon
Senior Manager
I-323-A-0001

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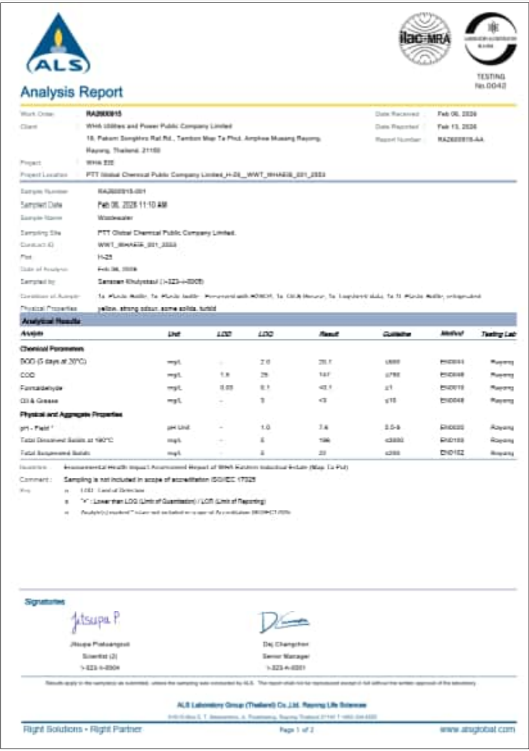

Analysis Report

TESTING No.0042

Work Order	RA2600915	Date Received	Feb 06, 2026
Client	WHA Utilities and Power Public Company Limited 18, Pakorn Songkhro Rat Rd., Tambon Map Ta Phut, Amphoe Mueang Rayong, Rayong, Thailand, 21150	Date Reported	Feb 13, 2026
		Report Number	RA2600915-AA
Project	WHA EIE		
Project Location	PTT Global Chemical Public Company Limited_H-25__WWT_WHAEIE_001_2553		

Sample Number: RA2600915-001
Sampled Date: Feb 06, 2026 11:10 AM
Sample Name: Wastewater
Sampling Site: PTT Global Chemical Public Company Limited.
Contract ID: WWT_WHAEIE_001_2553
Plot: H-25
Date of Analysis: Feb 06, 2026
Sampled by: Sansoan Khutyotsaul (I-323-I-0005)
Condition of Sample: [illegible]
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	25.1	≤500	EN0044	Rayong
COD	mg/L	1.5	25	147	≤750	EN0046	Rayong
Formaldehyde	mg/L	0.03	0.1	<0.1	≤1	EN0010	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	EN0048	Rayong
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.6	5.5-9	EN0023	Rayong
Total Dissolved Solids at 180°C	mg/L	-	5	196	≤3000	EN0100	Rayong
Total Suspended Solids	mg/L	-	5	23	≤200	EN0102	Rayong

Guideline: Environmental Health Impact Assessment Report of WHA Eastern Industrial Estate (Map Ta Phut)
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

Jitsupa P.
Jitsupa Piatuangsut
Scientist (2)
I-323-I-0004

Dej Changchon
Senior Manager
I-323-A-0001

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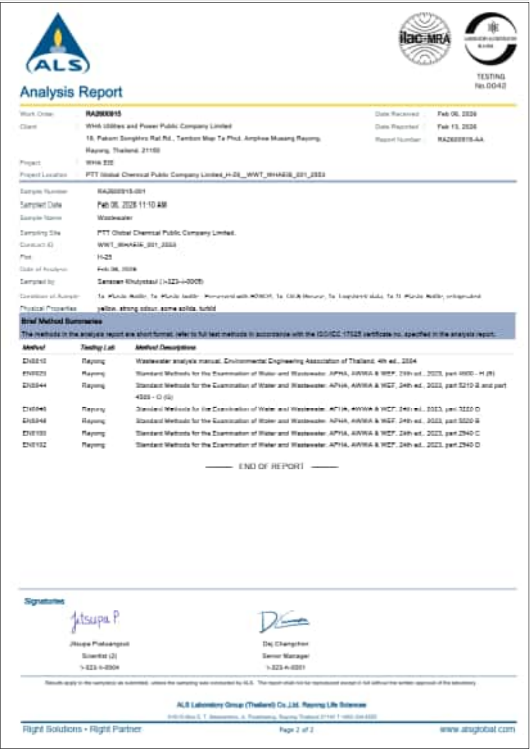

Analysis Report

TESTING No.0042

Work Order	RA2600915	Date Received	Feb 06, 2026
Client	WHA Utilities and Power Public Company Limited 18, Pakorn Songkhro Rat Rd., Tambon Map Ta Phut, Amphoe Mueang Rayong, Rayong, Thailand, 21150	Date Reported	Feb 13, 2026
		Report Number	RA2600915-AA
Project	WHA EIE		
Project Location	PTT Global Chemical Public Company Limited_H-25__WWT_WHAEIE_001_2553		

Sample Number: RA2600915-001
Sampled Date: Feb 06, 2026 11:10 AM
Sample Name: Wastewater
Sampling Site: PTT Global Chemical Public Company Limited.
Contract ID: WWT_WHAEIE_001_2553
Plot: H-25
Date of Analysis: Feb 06, 2026
Sampled by: Sansoan Khutyotsaul (I-323-I-0005)
Condition of Sample: [illegible]
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
EN0010	Rayong	Wastewater analysis manual, Environmental Engineering Association of Thailand, 4th ed., 2004
EN0023	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0100	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C
EN0102	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

END OF REPORT

Signatories

Jitsupa P.
Jitsupa Piatuangsut
Scientist (2)
I-323-I-0004

Dej Changchon
Senior Manager
I-323-A-0001

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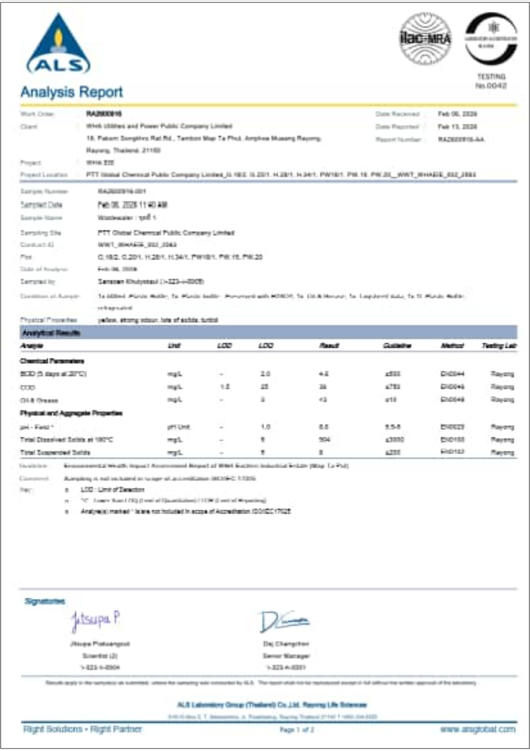

Analysis Report

TESTING No.0042

Work Order	RA2600916	Date Received	Feb 06, 2026
Client	WHA Utilities and Power Public Company Limited 18, Pakorn Songkhro Rat Rd., Tambon Map Ta Phut, Amphoe Mueang Rayong, Rayong, Thailand, 21150	Date Reported	Feb 13, 2026
		Report Number	RA2600916-AA
Project	WHA EIE		
Project Location	PTT Global Chemical Public Company Limited_O.18/2, O.20/1, H.28/1, H.34/1, PW18/1, PW.19, PW.20__WWT_WHAEIE_002_2563		

Sample Number: RA2600916-001
Sampled Date: Feb 06, 2026 11:40 AM
Sample Name: Wastewater : จุดที่ 1
Sampling Site: PTT Global Chemical Public Company Limited
Contract ID: WWT_WHAEIE_002_2563
Plot: O.18/2, O.20/1, H.28/1, H.34/1, PW18/1, PW.19, PW.20
Date of Analysis: Feb 06, 2026
Sampled by: Sansoan Khutyotsaul (I-323-I-0005)
Condition of Sample: [illegible]
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	4.6	≤500	EN0044	Rayong
COD	mg/L	1.5	25	36	≤750	EN0046	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	EN0048	Rayong
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	8.8	5.5-9	EN0023	Rayong
Total Dissolved Solids at 180°C	mg/L	-	5	504	≤3000	EN0100	Rayong
Total Suspended Solids	mg/L	-	5	8	≤200	EN0102	Rayong

Guideline: Environmental Health Impact Assessment Report of WHA Eastern Industrial Estate (Map Ta Phut)
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

Jitsupa P.
Jitsupa Piatuangsut
Scientist (2)
I-323-I-0004

Dej Changchon
Senior Manager
I-323-A-0001

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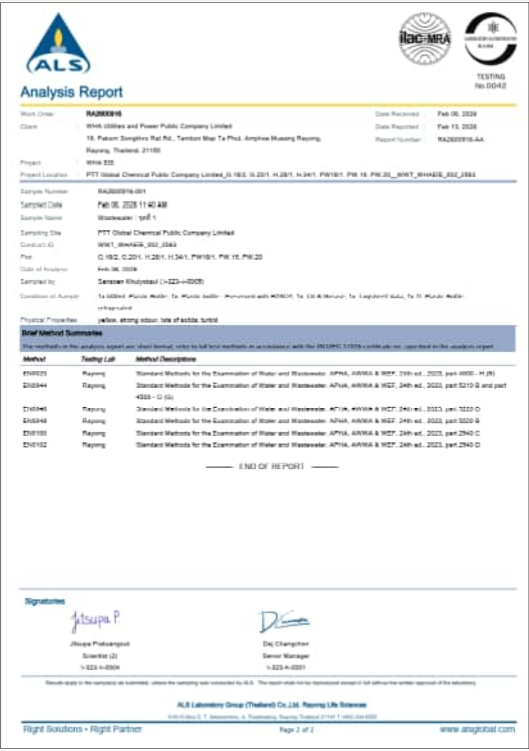

Analysis Report

TESTING No.0042

Work Order	RA2600916	Date Received	Feb 06, 2026
Client	WHA Utilities and Power Public Company Limited 18, Pakorn Songkhro Rat Rd., Tambon Map Ta Phut, Amphoe Mueang Rayong, Rayong, Thailand, 21150	Date Reported	Feb 13, 2026
		Report Number	RA2600916-AA
Project	WHA EIE		
Project Location	PTT Global Chemical Public Company Limited_O.18/2, O.20/1, H.28/1, H.34/1, PW18/1, PW.19, PW.20__WWT_WHAEIE_002_2563		

Sample Number: RA2600916-001
Sampled Date: Feb 06, 2026 11:40 AM
Sample Name: Wastewater : จุดที่ 1
Sampling Site: PTT Global Chemical Public Company Limited
Contract ID: WWT_WHAEIE_002_2563
Plot: O.18/2, O.20/1, H.28/1, H.34/1, PW18/1, PW.19, PW.20
Date of Analysis: Feb 06, 2026
Sampled by: Sansoan Khutyotsaul (I-323-I-0005)
Condition of Sample: [illegible]
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
EN0023	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0100	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C
EN0102	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

END OF REPORT

Signatories

Jitsupa P.
Jitsupa Piatuangsut
Scientist (2)
I-323-I-0004

Dej Changchon
Senior Manager
I-323-A-0001

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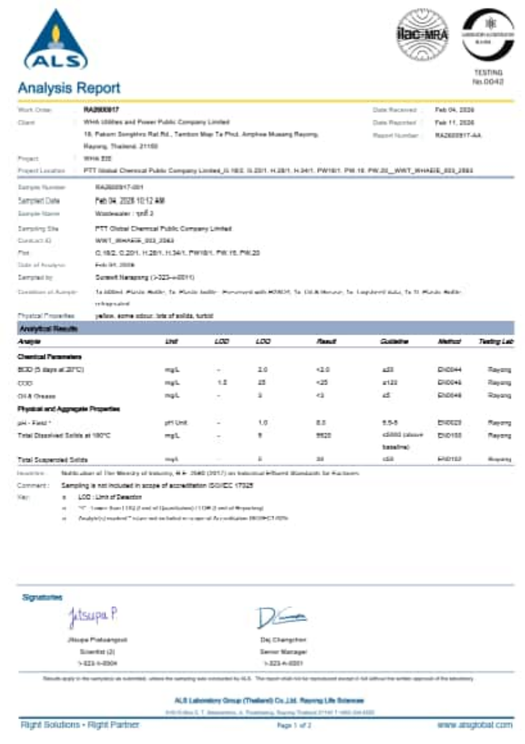

Analysis Report

TESTING No.0042

Work Order: RA2600917
Client: WHA Utilities and Power Public Company Limited
Date Received: Feb 04, 2026
Date Reported: Feb 11, 2026
Report Number: RA2600917-AA
Project: WHA EIE
Sampled Date: Feb 04, 2026 10:12 AM
Sample Name: Wastewater : จุดที่ 3
Sampling Site: PTT Global Chemical Public Company Limited
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	<2.0	≤20	EN0044	Rayong
COD	mg/L	1.5	25	<25	≤120	EN0046	Rayong
Oil & Grease	mg/L	-	3	<3	≤5	EN0048	Rayong
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	8.0	5.5-9	EN0023	Rayong
Total Dissolved Solids at 180°C	mg/L	-	5	5520	≤5000 (above baseline)	EN0100	Rayong
Total Suspended Solids	mg/L	-	5	30	≤50	EN0102	Rayong

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

Signatories

Jitsupa P.

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Analysis Report

TESTING No.0042

Work Order: RA2600917
Client: WHA Utilities and Power Public Company Limited
Date Received: Feb 04, 2026
Date Reported: Feb 11, 2026
Report Number: RA2600917-AA
Sampled Date: Feb 04, 2026 10:12 AM
Sample Name: Wastewater : จุดที่ 3
Sampling Site: PTT Global Chemical Public Company Limited
Physical Properties: yellow, some odour, lots of solids, turbid

Brief Method Summaries

Method	Testing Lab	Method Descriptions
EN0023	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0100	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C
EN0102	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

END OF REPORT

Signatories

Jitsupa P.

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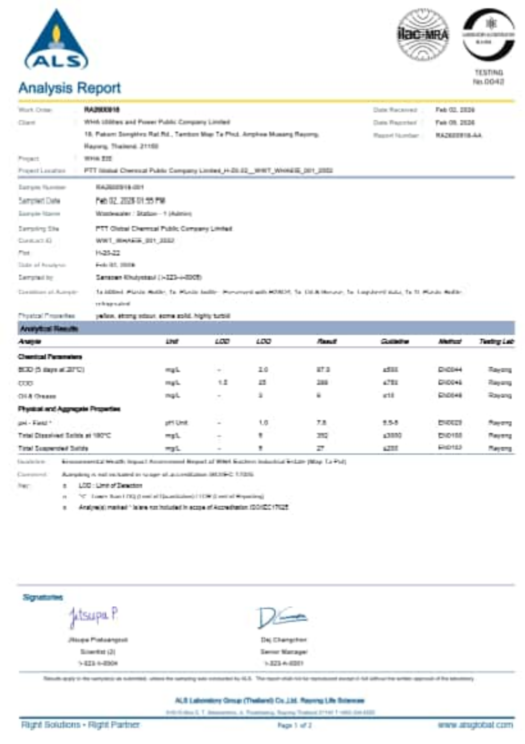

Analysis Report

TESTING No.0042

Work Order: RA2600918
Client: WHA Utilities and Power Public Company Limited
Date Received: Feb 02, 2026
Date Reported: Feb 09, 2026
Report Number: RA2600918-AA
Project: WHA EIE
Sampled Date: Feb 02, 2026 01:55 PM
Sample Name: Wastewater : Station - 1 (Admin)
Sampling Site: PTT Global Chemical Public Company Limited
Physical Properties: yellow, strong odour, some solid, 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	87.0	≤500	EN0044	Rayong
COD	mg/L	1.5	25	288	≤750	EN0046	Rayong
Oil & Grease	mg/L	-	3	6	≤10	EN0048	Rayong
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.8	5.5-9	EN0023	Rayong
Total Dissolved Solids at 180°C	mg/L	-	5	352	≤3000	EN0100	Rayong
Total Suspended Solids	mg/L	-	5	27	≤200	EN0102	Rayong

Key: LOD : Limit of Detection
Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC17025

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Analysis Report

TESTING No.0042

Work Order: RA2600918
Client: WHA Utilities and Power Public Company Limited
Date Received: Feb 02, 2026
Date Reported: Feb 09, 2026
Report Number: RA2600918-AA
Sampled Date: Feb 02, 2026 01:55 PM
Sample Name: Wastewater : Station - 1 (Admin)
Sampling Site: PTT Global Chemical Public Company Limited
Physical Properties: yellow, strong odour, some solid, highly turbid

Brief Method Summaries

Method	Testing Lab	Method Descriptions
EN0023	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0100	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C
EN0102	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

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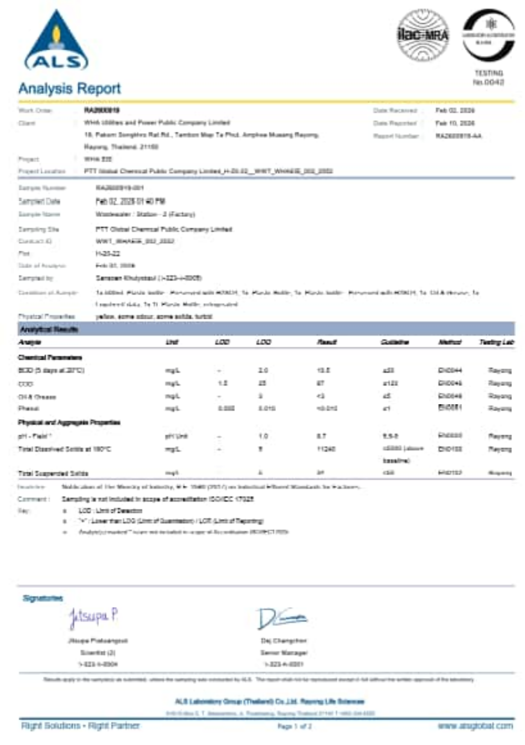

Analysis Report

TESTING No.0042

Work Order: RA2600919
Client: WHA Utilities and Power Public Company Limited
Date Received: Feb 02, 2026
Date Reported: Feb 10, 2026
Report Number: RA2600919-AA
Project: WHA EIE
Sampled Date: Feb 02, 2026 01:40 PM
Sample Name: Wastewater : Station - 2 (Factory)
Sampling Site: PTT Global Chemical Public Company Limited
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	13.8	≤20	EN0044	Rayong
COD	mg/L	1.5	25	87	≤120	EN0046	Rayong
Oil & Grease	mg/L	-	3	<3	≤5	EN0048	Rayong
Phenol	mg/L	0.003	0.010	<0.010	≤1	EN0051	Rayong
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	8.7	5.5-9	EN0023	Rayong
Total Dissolved Solids at 180°C	mg/L	-	5	11240	≤5000 (above baseline)	EN0100	Rayong
Total Suspended Solids	mg/L	-	5	31	≤50	EN0102	Rayong

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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Analysis Report

TESTING No.0042

Work Order: RA2600919
Client: WHA Utilities and Power Public Company Limited
Date Received: Feb 02, 2026
Date Reported: Feb 10, 2026
Report Number: RA2600919-AA
Sampled Date: Feb 02, 2026 01:40 PM
Sample Name: Wastewater : Station - 2 (Factory)
Sampling Site: PTT Global Chemical Public Company Limited
Physical Properties: yellow, some odour, some solids, turbid

Brief Method Summaries

Method	Testing Lab	Method Descriptions
EN0023	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0051	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5530 B, D
EN0100	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C
EN0102	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

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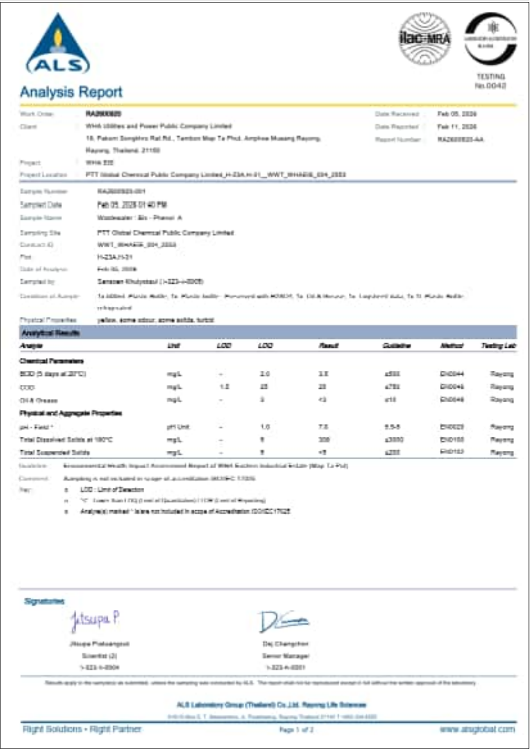

Analysis Report

TESTING No.0042

Work Order: RA2600920
Client: WHA Utilities and Power Public Company Limited
Date Received: Feb 05, 2026
Date Reported: Feb 11, 2026
Report Number: RA2600920-AA
Project: WHA EIE
Sampled Date: Feb 05, 2026 01:40 PM
Sample Name: Wastewater : Bis - Phenol A
Sampling Site: PTT Global Chemical Public Company Limited
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	3.8	≤500	EN0044	Rayong
COD	mg/L	1.5	25	28	≤750	EN0046	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	EN0048	Rayong
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.8	5.5-9	EN0023	Rayong
Total Dissolved Solids at 180°C	mg/L	-	5	308	≤3000	EN0100	Rayong
Total Suspended Solids	mg/L	-	5	<5	≤200	EN0102	Rayong

Key: LOD : Limit of Detection
Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC17025

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Analysis Report

TESTING No.0042

Work Order: RA2600920
Client: WHA Utilities and Power Public Company Limited
Date Received: Feb 05, 2026
Date Reported: Feb 11, 2026
Report Number: RA2600920-AA
Sampled Date: Feb 05, 2026 01:40 PM
Sample Name: Wastewater : Bis - Phenol A
Sampling Site: PTT Global Chemical Public Company Limited
Physical Properties: yellow, some odour, some solids, turbid

Brief Method Summaries

Method	Testing Lab	Method Descriptions
EN0023	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0100	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C
EN0102	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

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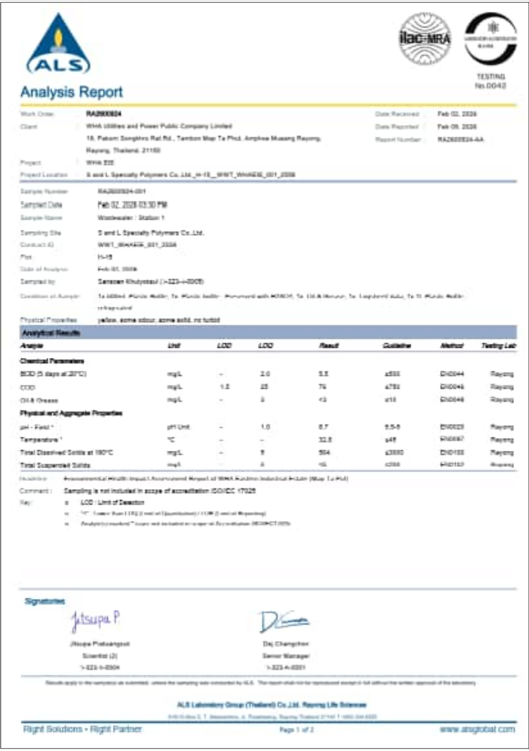

Analysis Report

TESTING No.0042

Work Order: RA2600924
Client: WHA Utilities and Power Public Company Limited
Date Received: Feb 02, 2026
Date Reported: Feb 09, 2026
Report Number: RA2600924-AA
Project: WHA EIE
Project Location: S and L Specialty Polymers Co.,Ltd._H-15__WWT_WHAEIE_001_2006
Sampled Date: Feb 02, 2026 03:30 PM
Sample Name: Wastewater : Station 1
Sampling Site: S and L Specialty Polymers Co.,Ltd.
Plot: H-15
Physical Properties: yellow, some odour, some solid, no turbid

Analytical Results

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	5.5	≤500	EN0044	Rayong
COD	mg/L	1.5	25	76	≤750	EN0046	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	EN0048	Rayong
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	8.7	5.5-9	EN0023	Rayong
Temperature *	°C	-	-	32.8	≤45	EN0097	Rayong
Total Dissolved Solids at 180°C	mg/L	-	5	504	≤3000	EN0100	Rayong
Total Suspended Solids	mg/L	-	5	<5	≤200	EN0102	Rayong

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

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TESTING No.0042

Analysis Report

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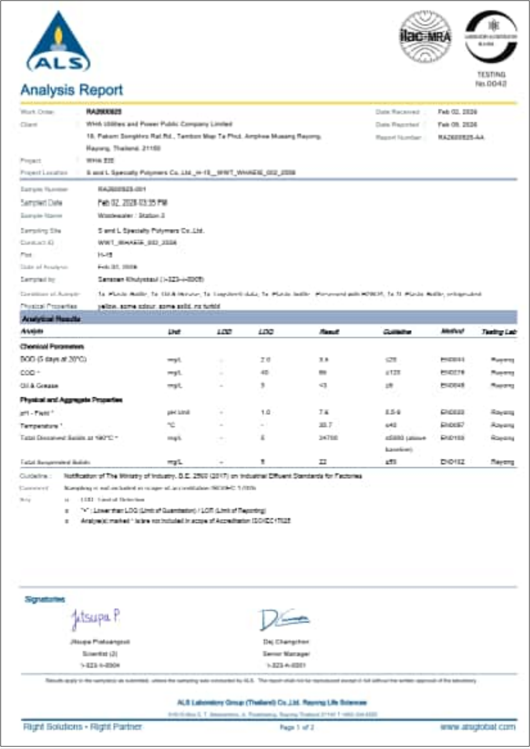
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Analysis Report

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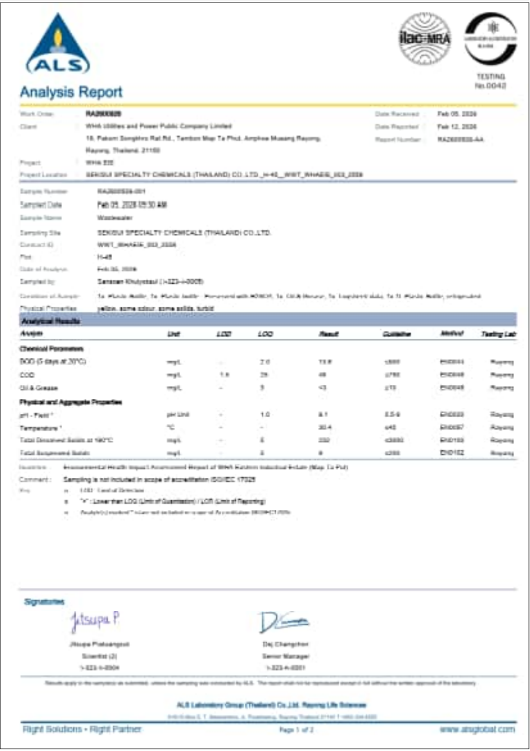
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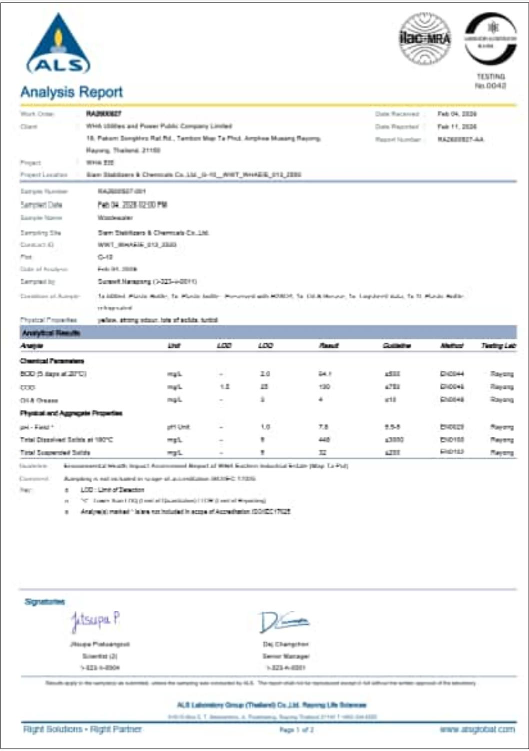
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Analysis Report

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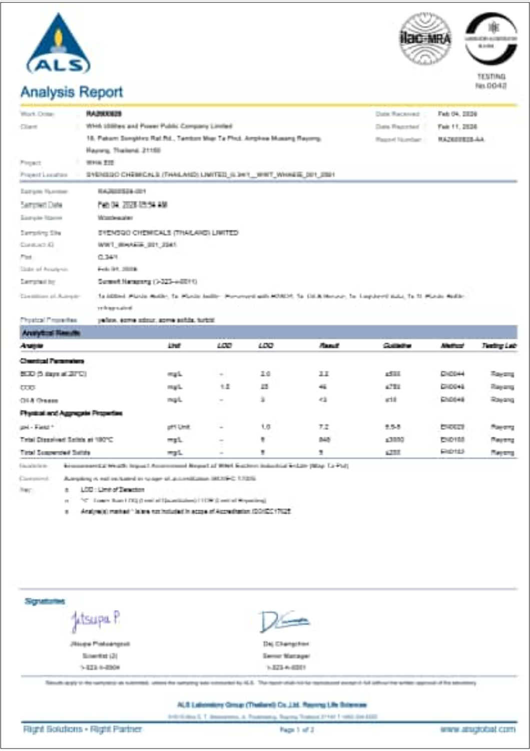
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Analysis Report

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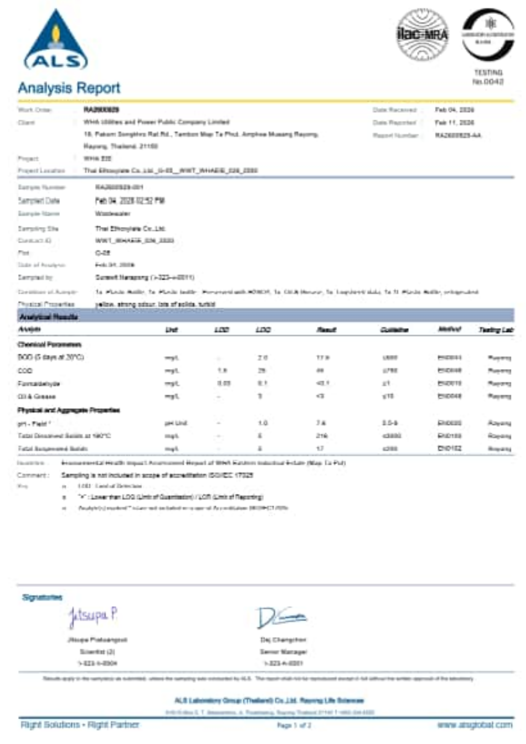

Analysis Report

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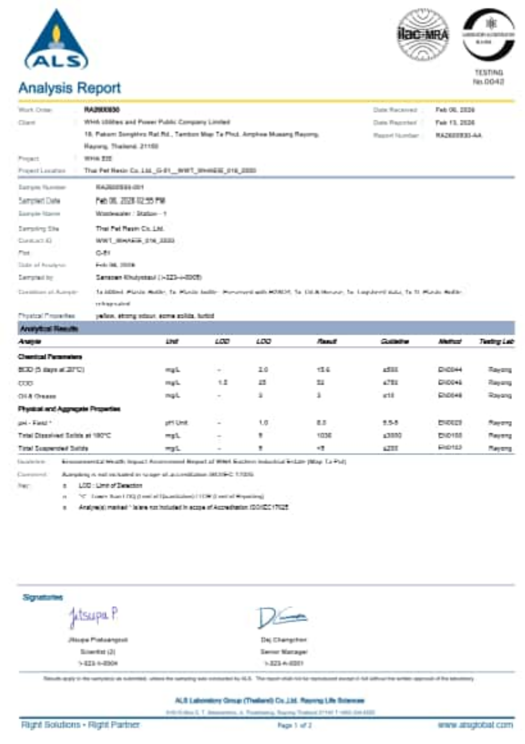

Analysis Report

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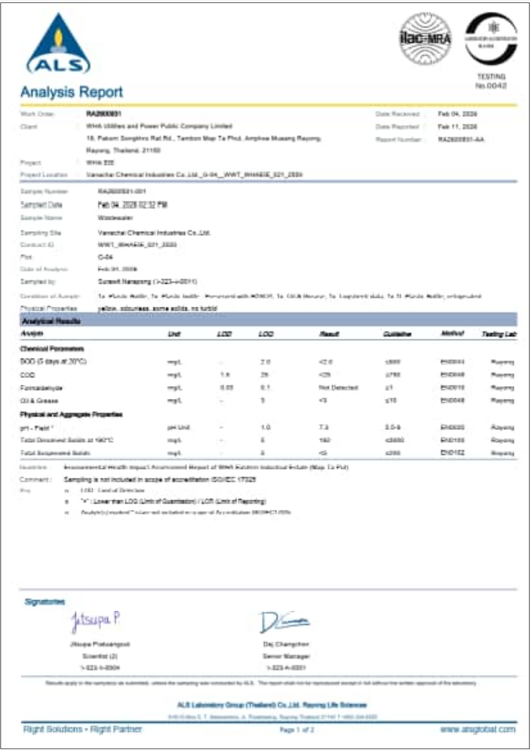

Analysis Report

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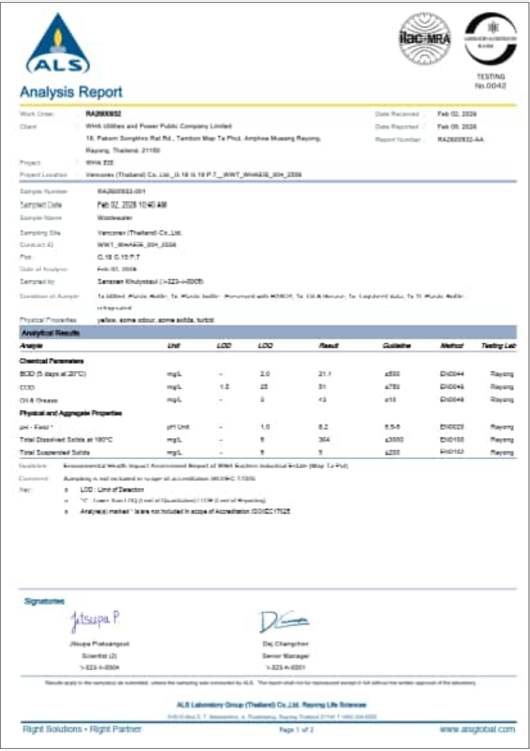

Analysis Report

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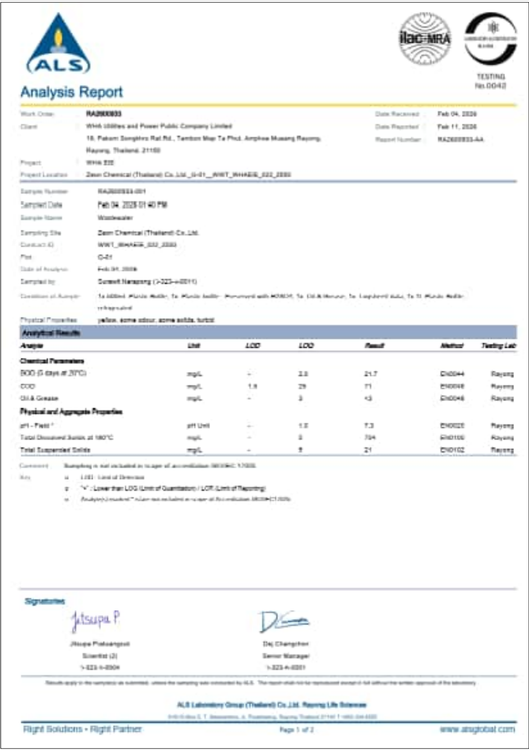

Analysis Report

Analysis Report

TESTING No.0042

Date Received: Feb 04, 2026
Date Reported: Feb 11, 2026
Sample Date: Feb 04, 2026 01:40 PM
Sample Name: Wastewater
Physical Properties: yellow, some odour, some solids, turbid

Brief Method Summaries

—— END OF REPORT ——

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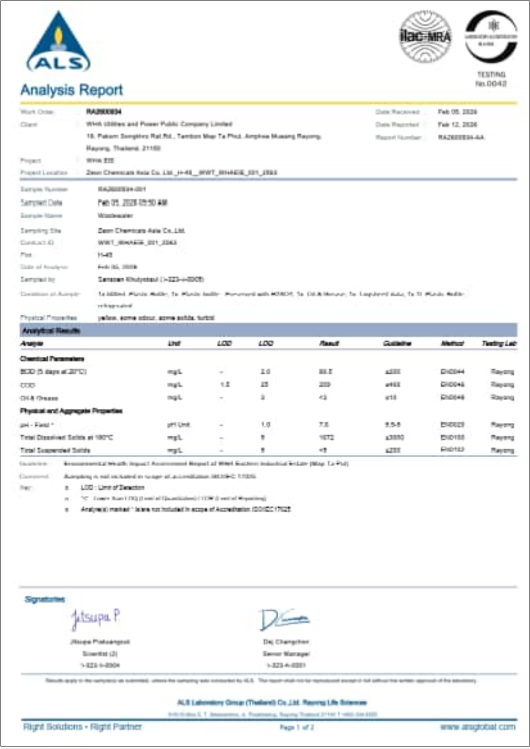

Analysis Report

TESTING No.0042

Date Received: Feb 05, 2026
Date Reported: Feb 12, 2026
Sample Date: Feb 05, 2026 09:50 AM
Sample Name: Wastewater
Physical Properties: yellow, some odour, some solids, turbid

Analytical Results

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Analysis Report

TESTING No.0042

Date Received: Feb 05, 2026
Date Reported: Feb 12, 2026
Sample Date: Feb 05, 2026 09:50 AM
Sample Name: Wastewater
Physical Properties: yellow, some odour, some solids, turbid

Brief Method Summaries

—— END OF REPORT ——

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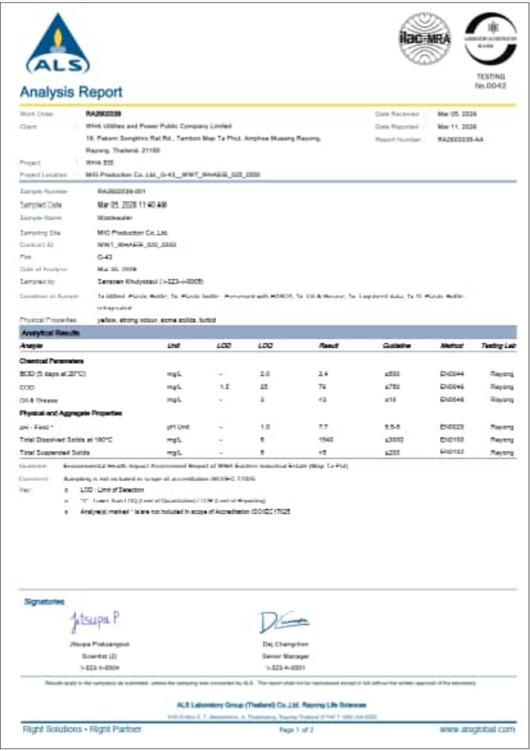

Analysis Report

TESTING No.0042

Date Received: Mar 05, 2026
Date Reported: Mar 11, 2026
Sample Date: Mar 05, 2026 11:40 AM
Sample Name: Wastewater
Physical Properties: yellow, strong odour, some solids, turbid

Analytical Results

Signatories

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Analysis Report

TESTING No.0042

Date Received: Mar 05, 2026
Date Reported: Mar 11, 2026
Sample Date: Mar 05, 2026 11:40 AM
Sample Name: Wastewater
Physical Properties: yellow, strong odour, some solids, turbid

Brief Method Summaries

—— END OF REPORT ——

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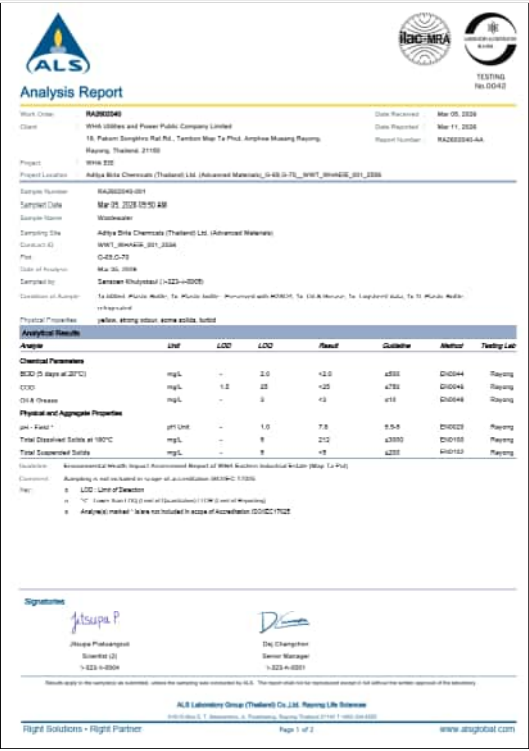

Analysis Report

TESTING No.0042

Date Received: Mar 05, 2026
Date Reported: Mar 11, 2026
Sample Date: Mar 05, 2026 09:50 AM
Sample Name: Wastewater
Physical Properties: yellow, strong odour, some solids, turbid

Analytical Results

Signatories

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Analysis Report

TESTING No.0042

Date Received: Mar 05, 2026
Date Reported: Mar 11, 2026
Sample Date: Mar 05, 2026 09:50 AM
Sample Name: Wastewater
Physical Properties: yellow, strong odour, some solids, turbid

Brief Method Summaries

—— END OF REPORT ——

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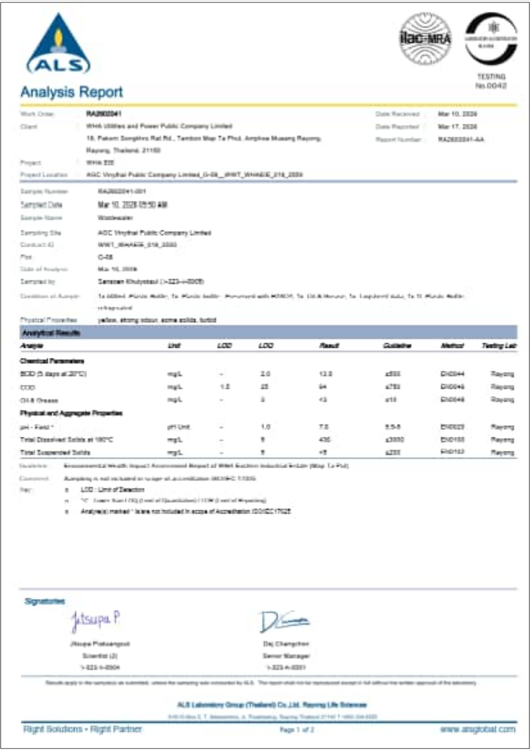

Analysis Report

TESTING No.0042

Date Received: Mar 10, 2026
Date Reported: Mar 17, 2026
Sample Date: Mar 10, 2026 09:50 AM
Sample Name: Wastewater
Physical Properties: yellow, strong odour, some solids, turbid

Analytical Results

Signatories

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Analysis Report

TESTING No.0042

Date Received: Mar 10, 2026
Date Reported: Mar 17, 2026
Sample Date: Mar 10, 2026 09:50 AM
Sample Name: Wastewater
Physical Properties: yellow, strong odour, some solids, turbid

Brief Method Summaries

—— END OF REPORT ——

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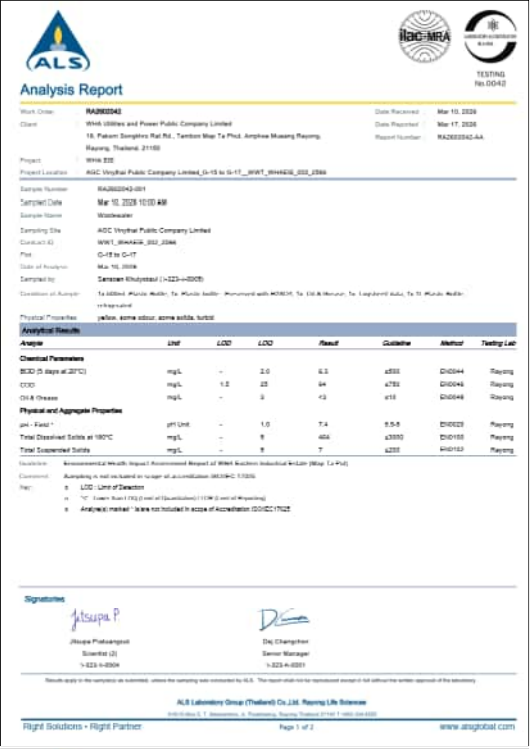
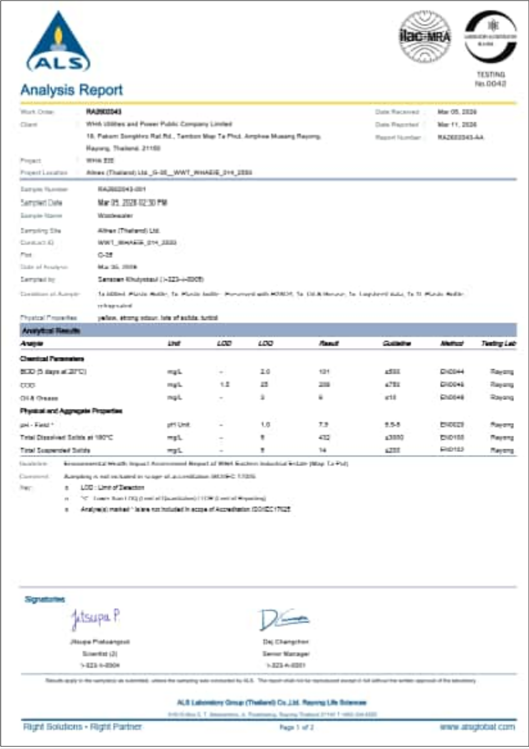


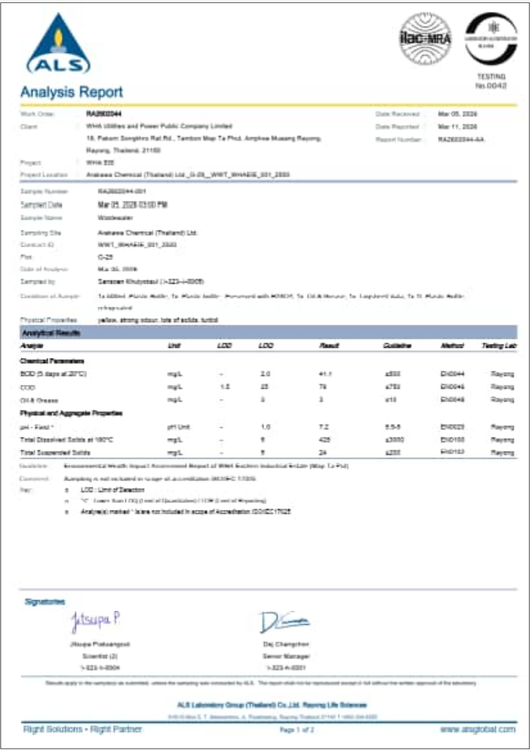
Analysis Report

Analysis Report



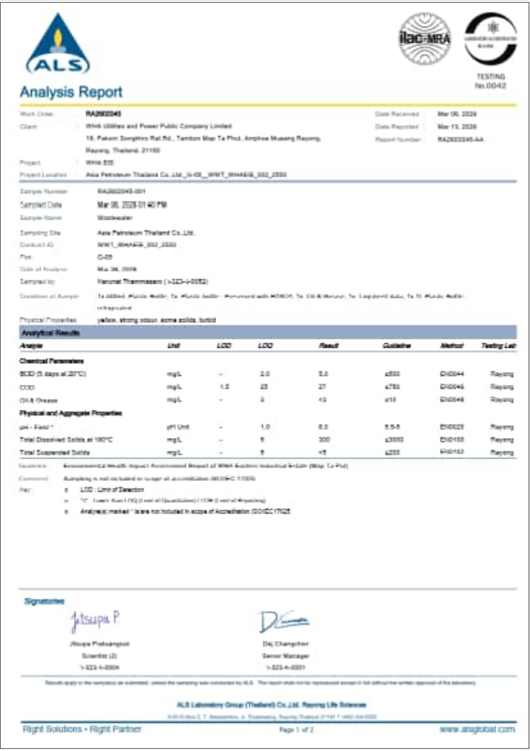
Analysis Report

Analysis Report



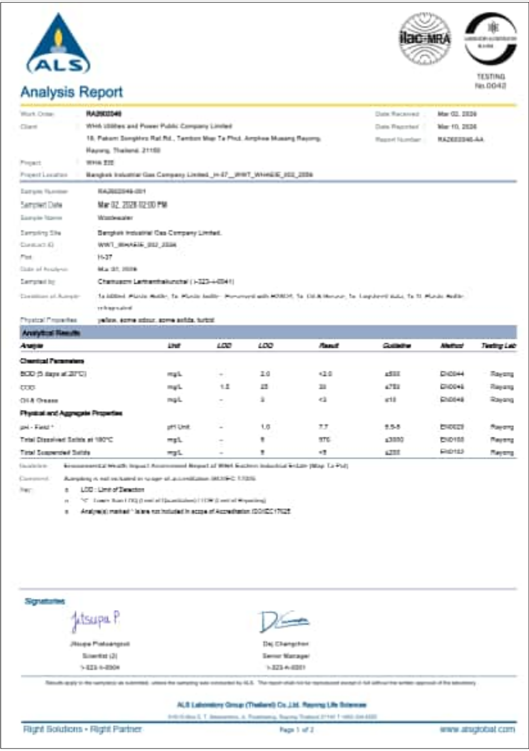
Analysis Report

Analysis Report

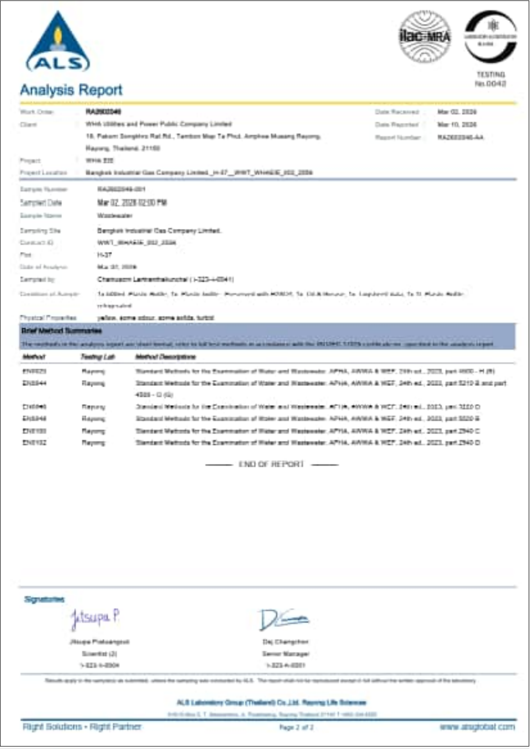


Analysis Report

Analysis Report



Analysis Report



Analysis Report

TESTING
No.0042

Work Order: RA2602046
Client: WHA Utilities and Power Public Company Limited
18, Pakorn Songkhro Rat Rd., Tambon Map Ta Phut, Amphoe Mueang Rayong, Rayong, Thailand, 21150
Project: WHA EIE
Project Location: Bangkok Industrial Gas Company Limited_H-37__WWT_WHAEIE_002_2556
Date Received: Mar 02, 2026
Date Reported: Mar 10, 2026
Report Number: RA2602046-AA

Sample Number: RA2602046-001
Sampled Date: Mar 02, 2026 02:00 PM
Sample Name: Wastewater
Sampling Site: Bangkok Industrial Gas Company Limited.
Contract ID: WWT_WHAEIE_002_2556
Plot: H-37
Date of Analysis: Mar 03, 2026
Sampled by: Chanusorn Lamanthakunchai (I-323-I-0041)
Condition of Sample: [illegible]
Physical Properties: yellow, some odour, some solids, turbid

Brief Method Summaries

The methods in the analysis report are short format, [illegible] specified in the analysis report.

Method	Testing Lab	Method Descriptions
EN0023	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0100	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C
EN0102	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

—— END OF REPORT ——

Signatories

Jitsupa P
Jitsupa Platsangsuk
Scientist (2)
I-323-I-0004

Dej Changchon
Senior Manager
I-323-A-0001

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.

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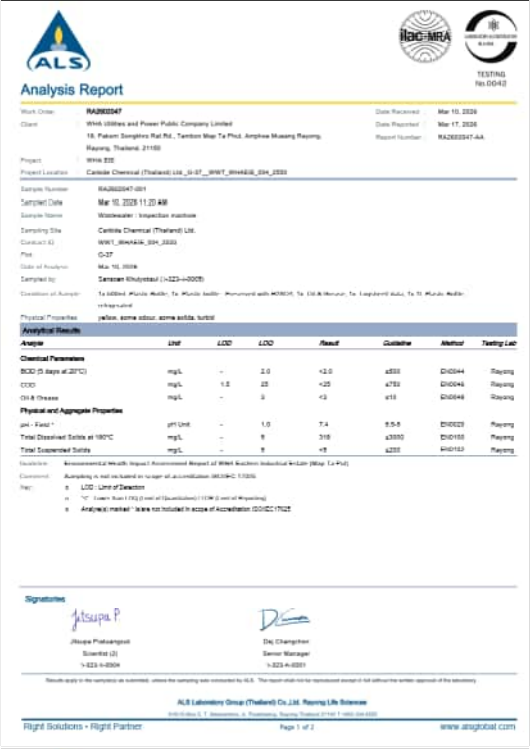

Analysis Report

TESTING
No.0042

Work Order: RA2602047
Client: WHA Utilities and Power Public Company Limited
18, Pakorn Songkhro Rat Rd., Tambon Map Ta Phut, Amphoe Mueang Rayong, Rayong, Thailand, 21150
Project: WHA EIE
Project Location: Carbide Chemical (Thailand) Ltd._G-37__WWT_WHAEIE_004_2555
Date Received: Mar 10, 2026
Date Reported: Mar 17, 2026
Report Number: RA2602047-AA

Sample Number: RA2602047-001
Sampled Date: Mar 10, 2026 11:20 AM
Sample Name: Wastewater : Inspection machine
Sampling Site: Carbide Chemical (Thailand) Ltd.
Contract ID: WWT_WHAEIE_004_2555
Plot: G-37
Date of Analysis: Mar 10, 2026
Sampled by: Sarawan Khuiyotsaui (I-323-I-0005)
Condition of Sample: [illegible]
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	Rayong
COD	mg/L	1.5	25	<25	≤750	EN0046	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	EN0048	Rayong
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.4	5.5-9	EN0023	Rayong
Total Dissolved Solids at 180°C	mg/L	-	5	318	≤3000	EN0100	Rayong
Total Suspended Solids	mg/L	-	5	<5	≤200	EN0102	Rayong

Guideline: Environmental Health Impact Assessment Report of WHA Eastern Industrial Estate (Map Ta Phut)
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

Jitsupa P
Jitsupa Platsangsuk
Scientist (2)
I-323-I-0004

Dej Changchon
Senior Manager
I-323-A-0001

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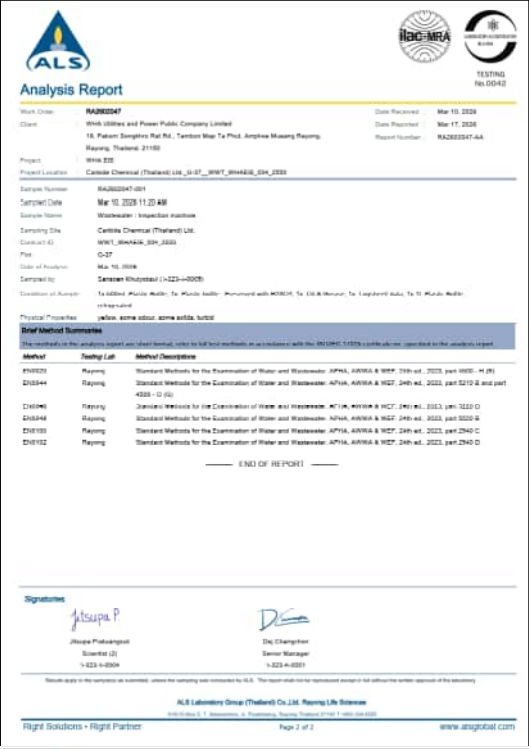

Analysis Report

TESTING
No.0042

Work Order: RA2602047
Client: WHA Utilities and Power Public Company Limited
18, Pakorn Songkhro Rat Rd., Tambon Map Ta Phut, Amphoe Mueang Rayong, Rayong, Thailand, 21150
Project: WHA EIE
Project Location: Carbide Chemical (Thailand) Ltd._G-37__WWT_WHAEIE_004_2555
Date Received: Mar 10, 2026
Date Reported: Mar 17, 2026
Report Number: RA2602047-AA

Sample Number: RA2602047-001
Sampled Date: Mar 10, 2026 11:20 AM
Sample Name: Wastewater : Inspection machine
Sampling Site: Carbide Chemical (Thailand) Ltd.
Contract ID: WWT_WHAEIE_004_2555
Plot: G-37
Date of Analysis: Mar 10, 2026
Sampled by: Sarawan Khuiyotsaui (I-323-I-0005)
Condition of Sample: [illegible]
Physical Properties: yellow, some odour, some solids, turbid

Brief Method Summaries

The methods in the analysis report are short format, [illegible] specified in the analysis report.

Method	Testing Lab	Method Descriptions
EN0023	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0100	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C
EN0102	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

—— END OF REPORT ——

Signatories

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Jitsupa Platsangsuk
Scientist (2)
I-323-I-0004

Dej Changchon
Senior Manager
I-323-A-0001

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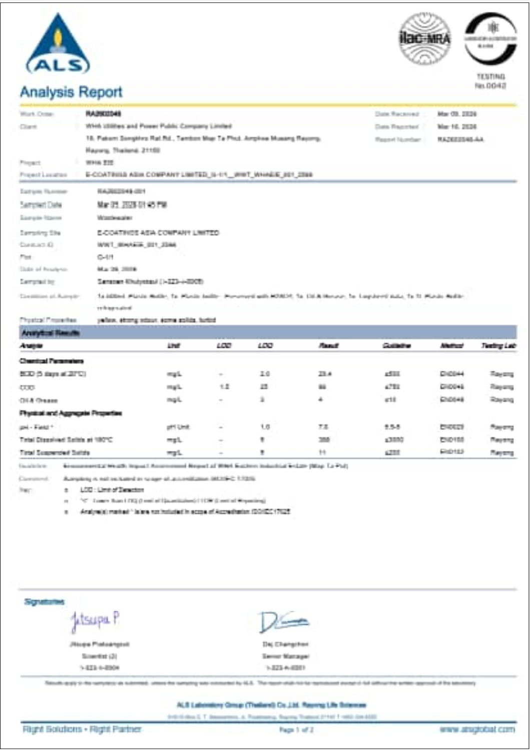

Analysis Report

TESTING
No.0042

Work Order: RA2602049
Client: WHA Utilities and Power Public Company Limited
18, Pakorn Songkhro Rat Rd., Tambon Map Ta Phut, Amphoe Mueang Rayong, Rayong, Thailand, 21150
Project: WHA EIE
Project Location: E-COATINGS ASIA COMPANY LIMITED_G-1/1__WWT_WHAEIE_001_2566
Date Received: Mar 09, 2026
Date Reported: Mar 16, 2026
Report Number: RA2602049-AA

Sample Number: RA2602049-001
Sampled Date: Mar 09, 2026 01:45 PM
Sample Name: Wastewater
Sampling Site: E-COATINGS ASIA COMPANY LIMITED
Contract ID: WWT_WHAEIE_001_2566
Plot: G-1/1
Date of Analysis: Mar 09, 2026
Sampled by: Sarawan Khuiyotsaui (I-323-I-0005)
Condition of Sample: [illegible]
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	23.4	≤500	EN0044	Rayong
COD	mg/L	1.5	25	66	≤750	EN0046	Rayong
Oil & Grease	mg/L	-	3	4	≤10	EN0048	Rayong
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.8	5.5-9	EN0023	Rayong
Total Dissolved Solids at 180°C	mg/L	-	5	388	≤3000	EN0100	Rayong
Total Suspended Solids	mg/L	-	5	11	≤200	EN0102	Rayong

Guideline: Environmental Health Impact Assessment Report of WHA Eastern Industrial Estate (Map Ta Phut)
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

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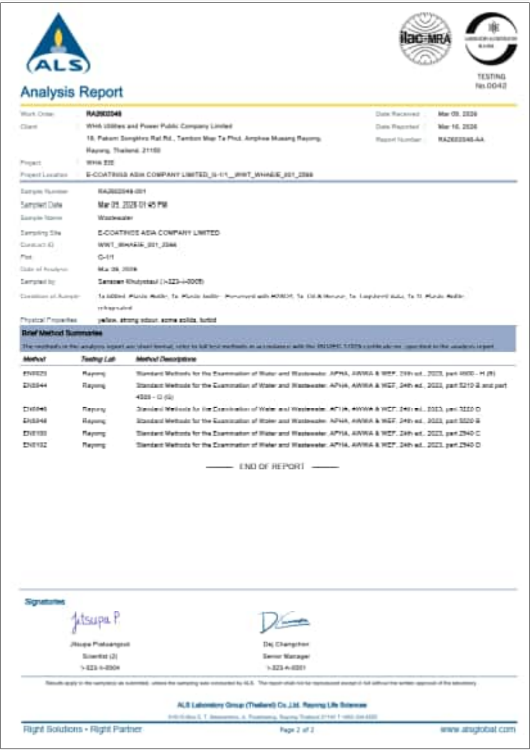

Analysis Report

TESTING
No.0042

Work Order: RA2602049
Client: WHA Utilities and Power Public Company Limited
18, Pakorn Songkhro Rat Rd., Tambon Map Ta Phut, Amphoe Mueang Rayong, Rayong, Thailand, 21150
Project: WHA EIE
Project Location: E-COATINGS ASIA COMPANY LIMITED_G-1/1__WWT_WHAEIE_001_2566
Date Received: Mar 09, 2026
Date Reported: Mar 16, 2026
Report Number: RA2602049-AA

Sample Number: RA2602049-001
Sampled Date: Mar 09, 2026 01:45 PM
Sample Name: Wastewater
Sampling Site: E-COATINGS ASIA COMPANY LIMITED
Contract ID: WWT_WHAEIE_001_2566
Plot: G-1/1
Date of Analysis: Mar 09, 2026
Sampled by: Sarawan Khuiyotsaui (I-323-I-0005)
Condition of Sample: [illegible]
Physical Properties: yellow, strong odour, some solids, turbid

Brief Method Summaries

The methods in the analysis report are short format, [illegible] specified in the analysis report.

Method	Testing Lab	Method Descriptions
EN0023	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0100	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C
EN0102	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

—— END OF REPORT ——

Signatories

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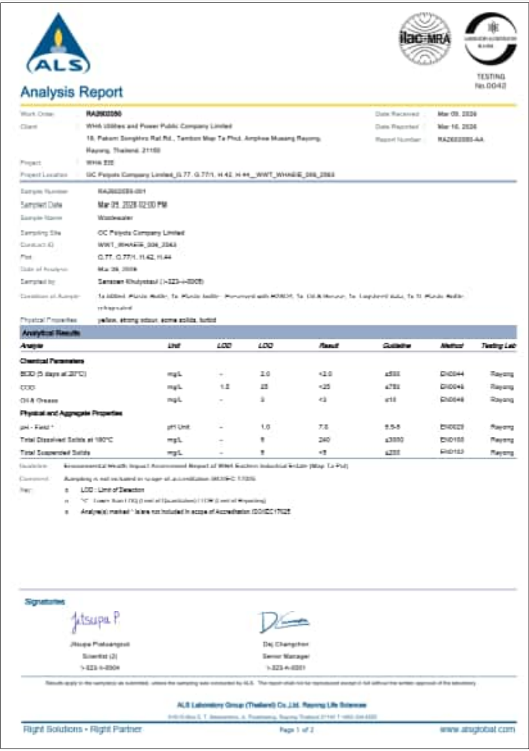

Analysis Report

TESTING
No.0042

Work Order: RA2602050
Client: WHA Utilities and Power Public Company Limited
18, Pakorn Songkhro Rat Rd., Tambon Map Ta Phut, Amphoe Mueang Rayong, Rayong, Thailand, 21150
Project: WHA EIE
Project Location: OC Polyols Company Limited_G.77, G.77/1, H.42, H.44__WWT_WHAEIE_006_2563
Date Received: Mar 09, 2026
Date Reported: Mar 16, 2026
Report Number: RA2602050-AA

Sample Number: RA2602050-001
Sampled Date: Mar 09, 2026 02:00 PM
Sample Name: Wastewater
Sampling Site: OC Polyols Company Limited
Contract ID: WWT_WHAEIE_006_2563
Plot: G.77, G.77/1, H.42, H.44
Date of Analysis: Mar 09, 2026
Sampled by: Sarawan Khuiyotsaui (I-323-I-0005)
Condition of Sample: [illegible]
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	<2.0	≤500	EN0044	Rayong
COD	mg/L	1.5	25	<25	≤750	EN0046	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	EN0048	Rayong
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.8	5.5-9	EN0023	Rayong
Total Dissolved Solids at 180°C	mg/L	-	5	240	≤3000	EN0100	Rayong
Total Suspended Solids	mg/L	-	5	<5	≤200	EN0102	Rayong

Guideline: Environmental Health Impact Assessment Report of WHA Eastern Industrial Estate (Map Ta Phut)
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

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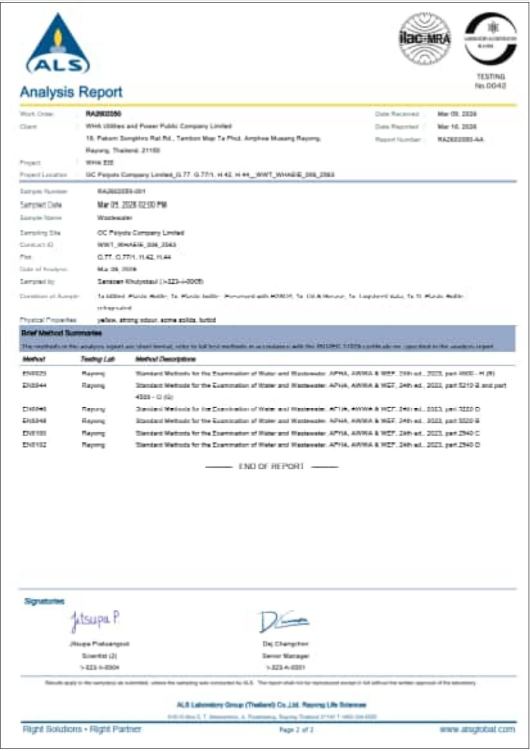

Analysis Report

TESTING
No.0042

Work Order: RA2602050
Client: WHA Utilities and Power Public Company Limited
18, Pakorn Songkhro Rat Rd., Tambon Map Ta Phut, Amphoe Mueang Rayong, Rayong, Thailand, 21150
Project: WHA EIE
Project Location: OC Polyols Company Limited_G.77, G.77/1, H.42, H.44__WWT_WHAEIE_006_2563
Date Received: Mar 09, 2026
Date Reported: Mar 16, 2026
Report Number: RA2602050-AA

Sample Number: RA2602050-001
Sampled Date: Mar 09, 2026 02:00 PM
Sample Name: Wastewater
Sampling Site: OC Polyols Company Limited
Contract ID: WWT_WHAEIE_006_2563
Plot: G.77, G.77/1, H.42, H.44
Date of Analysis: Mar 09, 2026
Sampled by: Sarawan Khuiyotsaui (I-323-I-0005)
Condition of Sample: [illegible]
Physical Properties: yellow, strong odour, some solids, turbid

Brief Method Summaries

The methods in the analysis report are short format, [illegible] specified in the analysis report.

Method	Testing Lab	Method Descriptions
EN0023	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0100	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C
EN0102	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

—— END OF REPORT ——

Signatories

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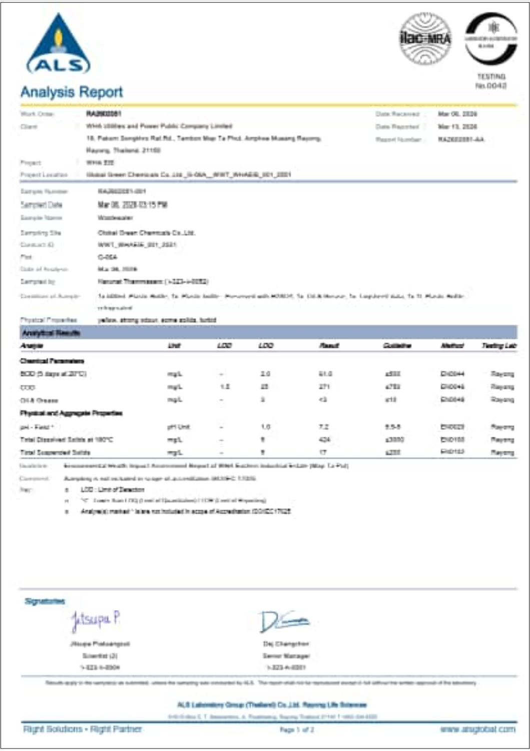

Analysis Report

TESTING
No.0042

Work Order: RA2602051
Client: WHA Utilities and Power Public Company Limited
18, Pakorn Songkhro Rat Rd., Tambon Map Ta Phut, Amphoe Mueang Rayong, Rayong, Thailand, 21150
Project: WHA EIE
Project Location: Global Green Chemicals Co.,Ltd._G-06A__WWT_WHAEIE_001_2561
Date Received: Mar 06, 2026
Date Reported: Mar 13, 2026
Report Number: RA2602051-AA

Sample Number: RA2602051-001
Sampled Date: Mar 06, 2026 03:15 PM
Sample Name: Wastewater
Sampling Site: Global Green Chemicals Co.,Ltd.
Contract ID: WWT_WHAEIE_001_2561
Plot: G-06A
Date of Analysis: Mar 06, 2026
Sampled by: Narumat Thammasarn (I-323-I-0052)
Condition of Sample: [illegible]
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	61.0	≤500	EN0044	Rayong
COD	mg/L	1.5	25	271	≤750	EN0046	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	EN0048	Rayong
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.2	5.5-9	EN0023	Rayong
Total Dissolved Solids at 180°C	mg/L	-	5	424	≤3000	EN0100	Rayong
Total Suspended Solids	mg/L	-	5	17	≤200	EN0102	Rayong

Guideline: Environmental Health Impact Assessment Report of WHA Eastern Industrial Estate (Map Ta Phut)
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

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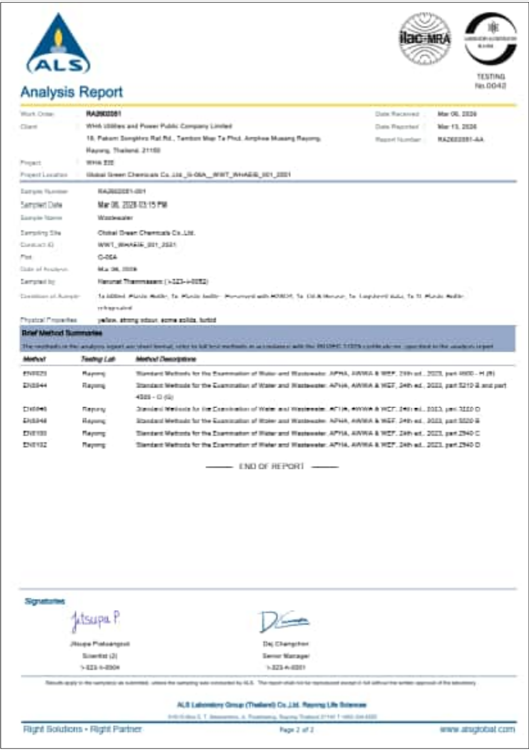

Analysis Report

TESTING
No.0042

Work Order: RA2602051
Client: WHA Utilities and Power Public Company Limited
18, Pakorn Songkhro Rat Rd., Tambon Map Ta Phut, Amphoe Mueang Rayong, Rayong, Thailand, 21150
Project: WHA EIE
Project Location: Global Green Chemicals Co.,Ltd._G-06A__WWT_WHAEIE_001_2561
Date Received: Mar 06, 2026
Date Reported: Mar 13, 2026
Report Number: RA2602051-AA

Sample Number: RA2602051-001
Sampled Date: Mar 06, 2026 03:15 PM
Sample Name: Wastewater
Sampling Site: Global Green Chemicals Co.,Ltd.
Contract ID: WWT_WHAEIE_001_2561
Plot: G-06A
Date of Analysis: Mar 06, 2026
Sampled by: Narumat Thammasarn (I-323-I-0052)
Condition of Sample: [illegible]
Physical Properties: yellow, strong odour, some solids, turbid

Brief Method Summaries

The methods in the analysis report are short format, [illegible] specified in the analysis report.

Method	Testing Lab	Method Descriptions
EN0023	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0100	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C
EN0102	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

—— END OF REPORT ——

Signatories

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Jitsupa Platsangsuk
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I-323-I-0004

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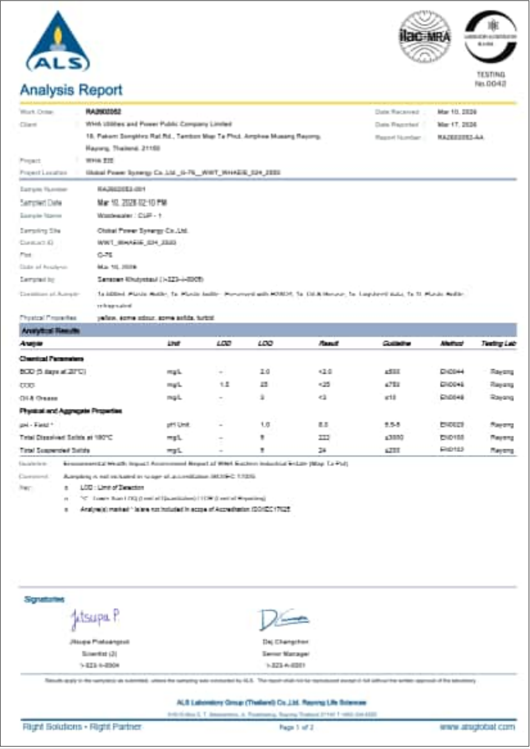

Analysis Report

Work Order: RA2602052
Sample Date: Mar 10, 2026 02:10 PM
Sample Name: Wastewater : CUP - 1
Sampling Site: Global Power Synergy Co.,Ltd.
Physical Properties: yellow, some odour, some solids, turbid

Analytical Results

Analyte	Unit	LOD	LOQ	Result	Guideline	Testing Lab
BOD (5 days at 20°C)	mg/L	-	2.0	<2.0	≤500	Rayong
COD	mg/L	1.5	25	<25	≤750	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	Rayong
pH - Field *	pH Unit	-	1.0	8.0	5.5-9	Rayong
Total Dissolved Solids at 180°C	mg/L	-	5	222	≤3000	Rayong
Total Suspended Solids	mg/L	-	5	24	≤200	Rayong

LOD : Limit of Detection

Signatories

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Analysis Report

Work Order: RA2602052
Sample Date: Mar 10, 2026 02:10 PM
Sample Name: Wastewater : CUP - 1

Brief Method Summaries

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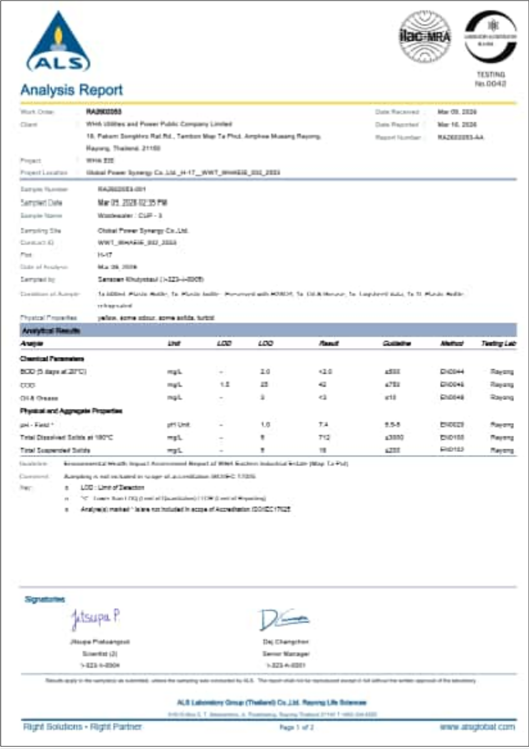

Analysis Report

Work Order: RA2602053
Sample Date: Mar 05, 2026 02:35 PM
Sample Name: Wastewater : CUP - 3

Analytical Results

Analyte	Unit	Result
BOD (5 days at 20°C)	mg/L	<2.0
COD	mg/L	42
Oil & Grease	mg/L	<3
pH - Field *	pH Unit	7.4
Total Dissolved Solids at 180°C	mg/L	712
Total Suspended Solids	mg/L	18

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Analysis Report

Work Order: RA2602053
Sample Date: Mar 05, 2026 02:35 PM
Sample Name: Wastewater : CUP - 3

Brief Method Summaries

END OF REPORT

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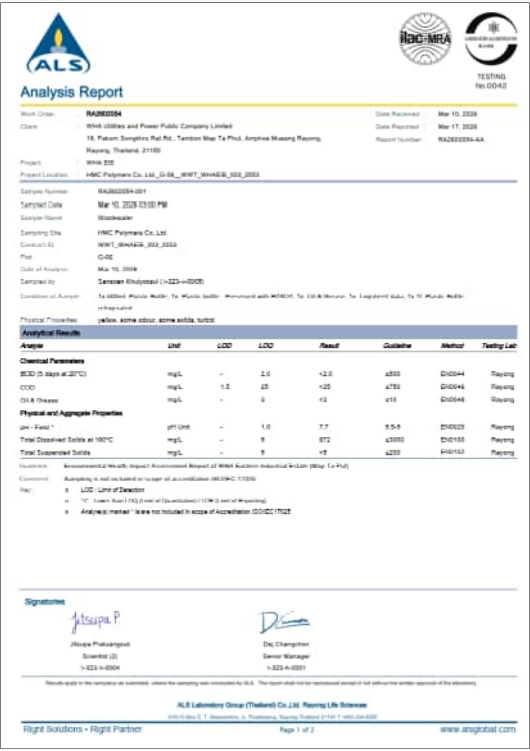

Analysis Report

Work Order: RA2602054
Sample Date: Mar 10, 2026 03:00 PM
Sample Name: Wastewater
Sampling Site: HMC Polymers Co.,Ltd.

Analytical Results

Analyte	Unit	Result
BOD (5 days at 20°C)	mg/L	<2.0
COD	mg/L	<25
Oil & Grease	mg/L	<3
pH - Field *	pH Unit	7.7
Total Dissolved Solids at 180°C	mg/L	872
Total Suspended Solids	mg/L	<5

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Analysis Report

Work Order: RA2602054
Sample Date: Mar 10, 2026 03:00 PM
Sample Name: Wastewater

Brief Method Summaries

END OF REPORT

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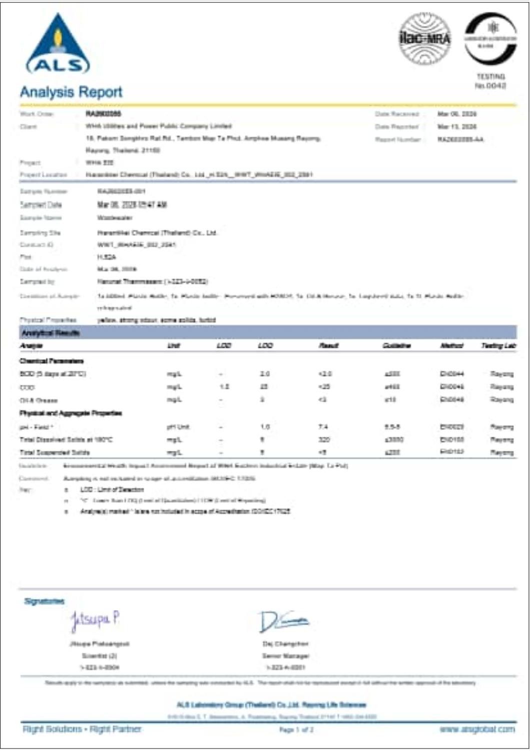

Analysis Report

Work Order: RA2602055
Sample Date: Mar 06, 2026 09:47 AM
Sample Name: Wastewater
Physical Properties: yellow, strong odour, some solids, turbid

Analytical Results

Analyte	Unit	Result
BOD (5 days at 20°C)	mg/L	<2.0
COD	mg/L	<25
Oil & Grease	mg/L	<3
pH - Field *	pH Unit	7.4
Total Dissolved Solids at 180°C	mg/L	320
Total Suspended Solids	mg/L	<5

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Analysis Report

Work Order: RA2602055
Sample Date: Mar 06, 2026 09:47 AM
Sample Name: Wastewater

Brief Method Summaries

END OF REPORT

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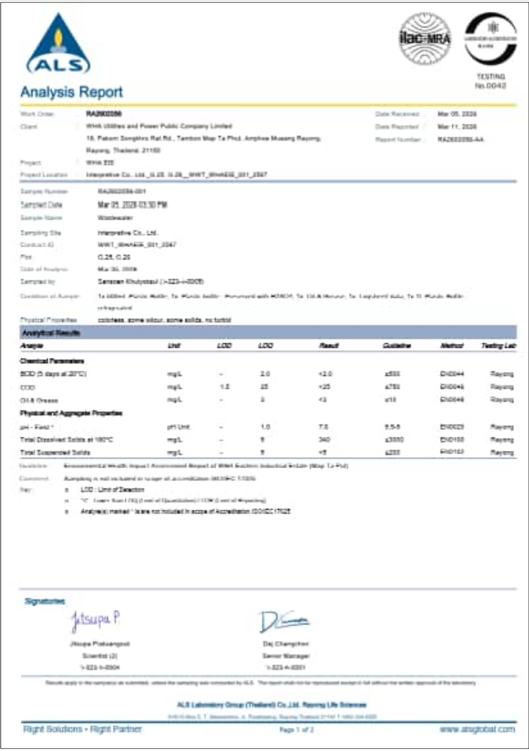

Analysis Report

Work Order: RA2602056
Sample Date: Mar 05, 2026 03:30 PM
Sample Name: Wastewater
Physical Properties: colorless, some odour, some solids, no turbid

Analytical Results

Analyte	Unit	Result
BOD (5 days at 20°C)	mg/L	<2.0
COD	mg/L	<25
Oil & Grease	mg/L	<3
pH - Field *	pH Unit	7.8
Total Dissolved Solids at 180°C	mg/L	340
Total Suspended Solids	mg/L	<5

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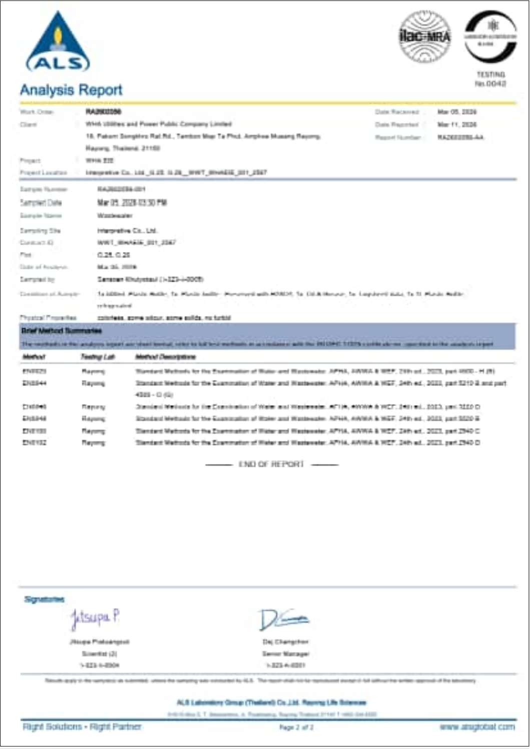

Analysis Report

TESTING No.0042

Work Order: RA2600356
Client: WHA Utilities and Power Public Company Limited
18, Pakorn Songkhro Rat Rd., Tambon Map Ta Phut, Amphoe Mueang Rayong, Rayong, Thailand, 21150
Project: WHA EIE
Project Location: Interpretive Co., Ltd._G.25, G.26__WWT_WHAEIE_001_2567
Date Received: Mar 05, 2026
Date Reported: Mar 11, 2026
Report Number: RA2600356-AA

Sample Number: RA2600356-001
Sampled Date: Mar 05, 2026 03:30 PM
Sample Name: Wastewater
Sampling Site: Interpretive Co., Ltd.
Contract ID: WWT_WHAEIE_001_2567
Plot: G.25, G.26
Date of Analysis: [illegible]
Sampled by: Sansoen Khutyotsaul (1-223-I-0005)
Condition of Sample: [illegible]
Physical Properties: colorless, some odour, some solids, no turbid

Brief Method Summaries

[illegible]

Method	Testing Lab	Method Descriptions
EN0023	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0100	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C
EN0102	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

——— END OF REPORT ———

Signatories

Jitsupa P
Jitsupa Piatsangpol
Scientist (2)
1-223-I-0004

Dej Changchon
Senior Manager
1-223-A-0001

[illegible]

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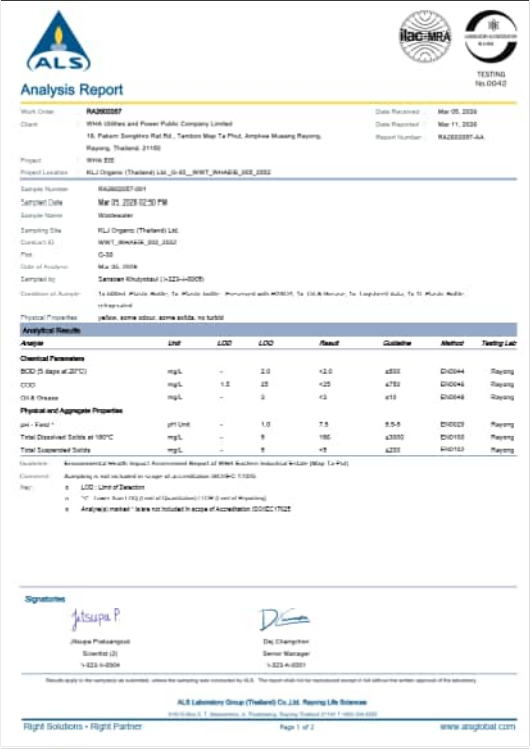

Analysis Report

TESTING No.0042

Work Order: RA2600357
Client: WHA Utilities and Power Public Company Limited
18, Pakorn Songkhro Rat Rd., Tambon Map Ta Phut, Amphoe Mueang Rayong, Rayong, Thailand, 21150
Project: WHA EIE
Project Location: KLJ Organic (Thailand) Ltd._G-30__WWT_WHAEIE_002_2562
Date Received: Mar 05, 2026
Date Reported: Mar 11, 2026
Report Number: RA2600357-AA

Sample Number: RA2600357-001
Sampled Date: Mar 05, 2026 02:50 PM
Sample Name: Wastewater
Sampling Site: KLJ Organic (Thailand) Ltd.
Contract ID: WWT_WHAEIE_002_2562
Plot: G-30
Date of Analysis: [illegible]
Sampled by: Sansoen Khutyotsaul (1-223-I-0005)
Condition of Sample: [illegible]
Physical Properties: yellow, some odour, some solids, no 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	Rayong
COD	mg/L	1.5	25	<25	≤750	EN0046	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	EN0048	Rayong
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.5	5.5-9	EN0023	Rayong
Total Dissolved Solids at 180°C	mg/L	-	5	186	≤3000	EN0100	Rayong
Total Suspended Solids	mg/L	-	5	<5	≤200	EN0102	Rayong

Guideline: Environmental Health Impact Assessment Report of WHA Eastern Industrial Estate (Map Ta Phut)
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

Jitsupa P
Jitsupa Piatsangpol
Scientist (2)
1-223-I-0004

Dej Changchon
Senior Manager
1-223-A-0001

[illegible]

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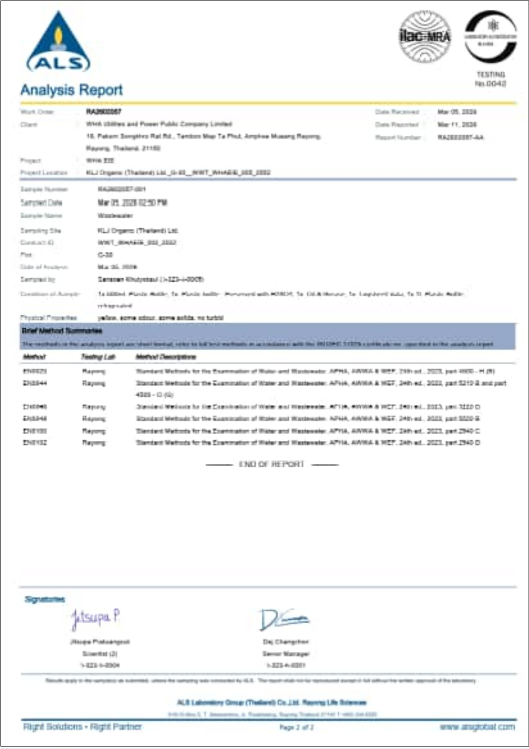

Analysis Report

TESTING No.0042

Work Order: RA2600357
Client: WHA Utilities and Power Public Company Limited
18, Pakorn Songkhro Rat Rd., Tambon Map Ta Phut, Amphoe Mueang Rayong, Rayong, Thailand, 21150
Project: WHA EIE
Project Location: KLJ Organic (Thailand) Ltd._G-30__WWT_WHAEIE_002_2562
Date Received: Mar 05, 2026
Date Reported: Mar 11, 2026
Report Number: RA2600357-AA

Sample Number: RA2600357-001
Sampled Date: Mar 05, 2026 02:50 PM
Sample Name: Wastewater
Sampling Site: KLJ Organic (Thailand) Ltd.
Contract ID: WWT_WHAEIE_002_2562
Plot: G-30
Date of Analysis: [illegible]
Sampled by: Sansoen Khutyotsaul (1-223-I-0005)
Condition of Sample: [illegible]
Physical Properties: yellow, some odour, some solids, no turbid

Brief Method Summaries

[illegible]

Method	Testing Lab	Method Descriptions
EN0023	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0100	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C
EN0102	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

——— END OF REPORT ———

Signatories

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Jitsupa Piatsangpol
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1-223-I-0004

Dej Changchon
Senior Manager
1-223-A-0001

[illegible]

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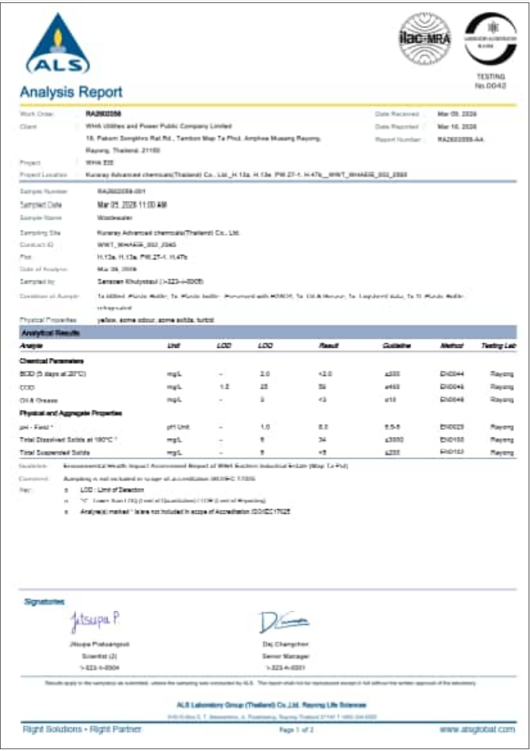

Analysis Report

TESTING No.0042

Work Order: RA2600358
Client: WHA Utilities and Power Public Company Limited
18, Pakorn Songkhro Rat Rd., Tambon Map Ta Phut, Amphoe Mueang Rayong, Rayong, Thailand, 21150
Project: WHA EIE
Project Location: Kuraray Advanced chemicals(Thailand) Co., Ltd._H.13a, H.13e, PW.27-1, H.47b__WWT_WHAEIE_002_2565
Date Received: Mar 09, 2026
Date Reported: Mar 16, 2026
Report Number: RA2600358-AA

Sample Number: RA2600358-001
Sampled Date: Mar 05, 2026 11:00 AM
Sample Name: Wastewater
Sampling Site: Kuraray Advanced chemicals(Thailand) Co., Ltd.
Contract ID: WWT_WHAEIE_002_2565
Plot: H.13a, H.13a, PW.27-1, H.47b
Date of Analysis: [illegible]
Sampled by: Sansoen Khutyotsaul (1-223-I-0005)
Condition of Sample: [illegible]
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	≤300	EN0044	Rayong
COD	mg/L	1.5	25	56	≤400	EN0046	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	EN0048	Rayong
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	8.0	5.5-9	EN0023	Rayong
Total Dissolved Solids at 180°C *	mg/L	-	5	34	≤3000	EN0100	Rayong
Total Suspended Solids	mg/L	-	5	<5	≤200	EN0102	Rayong

Guideline: Environmental Health Impact Assessment Report of WHA Eastern Industrial Estate (Map Ta Phut)
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

Jitsupa P
Jitsupa Piatsangpol
Scientist (2)
1-223-I-0004

Dej Changchon
Senior Manager
1-223-A-0001

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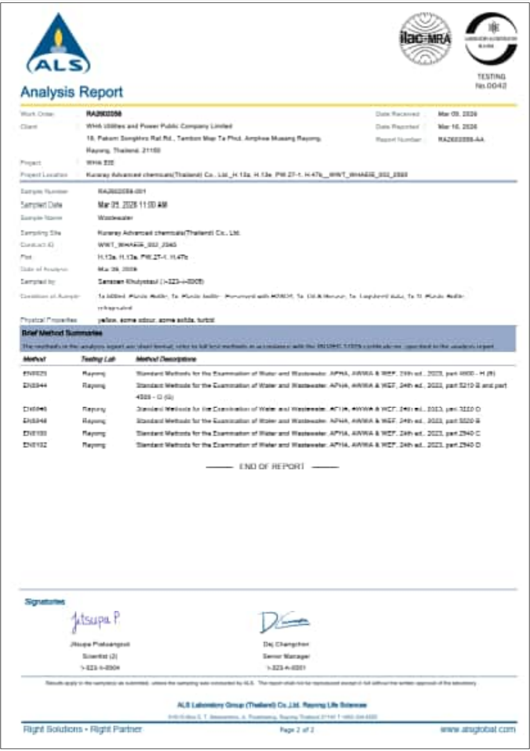

Analysis Report

TESTING No.0042

Work Order: RA2600358
Client: WHA Utilities and Power Public Company Limited
18, Pakorn Songkhro Rat Rd., Tambon Map Ta Phut, Amphoe Mueang Rayong, Rayong, Thailand, 21150
Project: WHA EIE
Project Location: Kuraray Advanced chemicals(Thailand) Co., Ltd._H.13a, H.13e, PW.27-1, H.47b__WWT_WHAEIE_002_2565
Date Received: Mar 09, 2026
Date Reported: Mar 16, 2026
Report Number: RA2600358-AA

Sample Number: RA2600358-001
Sampled Date: Mar 05, 2026 11:00 AM
Sample Name: Wastewater
Sampling Site: Kuraray Advanced chemicals(Thailand) Co., Ltd.
Contract ID: WWT_WHAEIE_002_2565
Plot: H.13a, H.13a, PW.27-1, H.47b
Date of Analysis: [illegible]
Sampled by: Sansoen Khutyotsaul (1-223-I-0005)
Condition of Sample: [illegible]
Physical Properties: yellow, some odour, some solids, turbid

Brief Method Summaries

[illegible]

Method	Testing Lab	Method Descriptions
EN0023	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0100	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C
EN0102	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

——— END OF REPORT ———

Signatories

Jitsupa P
Jitsupa Piatsangpol
Scientist (2)
1-223-I-0004

Dej Changchon
Senior Manager
1-223-A-0001

[illegible]

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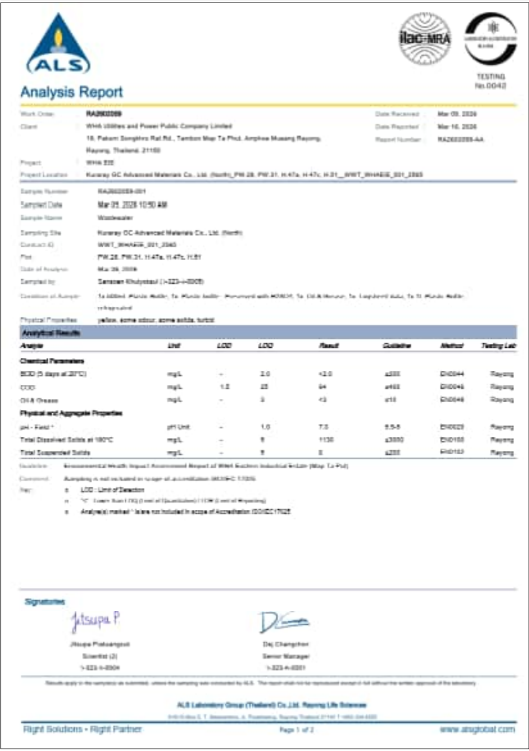

Analysis Report

TESTING No.0042

Work Order: RA2600359
Client: WHA Utilities and Power Public Company Limited
18, Pakorn Songkhro Rat Rd., Tambon Map Ta Phut, Amphoe Mueang Rayong, Rayong, Thailand, 21150
Project: WHA EIE
Project Location: Kuraray GC Advanced Materials Co., Ltd. (North)_PW.28, PW.31, H.47a, H.47c, H.51__WWT_WHAEIE_001_2565
Date Received: Mar 09, 2026
Date Reported: Mar 16, 2026
Report Number: RA2600359-AA

Sample Number: RA2600359-001
Sampled Date: Mar 05, 2026 10:50 AM
Sample Name: Wastewater
Sampling Site: Kuraray GC Advanced Materials Co., Ltd. (North)
Contract ID: WWT_WHAEIE_001_2565
Plot: PW.28, PW.31, H.47a, H.47c, H.51
Date of Analysis: [illegible]
Sampled by: Sansoen Khutyotsaul (1-223-I-0005)
Condition of Sample: [illegible]
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	≤300	EN0044	Rayong
COD	mg/L	1.5	25	64	≤400	EN0046	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	EN0048	Rayong
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.0	5.5-9	EN0023	Rayong
Total Dissolved Solids at 180°C	mg/L	-	5	1130	≤3000	EN0100	Rayong
Total Suspended Solids	mg/L	-	5	8	≤200	EN0102	Rayong

Guideline: Environmental Health Impact Assessment Report of WHA Eastern Industrial Estate (Map Ta Phut)
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

Jitsupa P
Jitsupa Piatsangpol
Scientist (2)
1-223-I-0004

Dej Changchon
Senior Manager
1-223-A-0001

[illegible]

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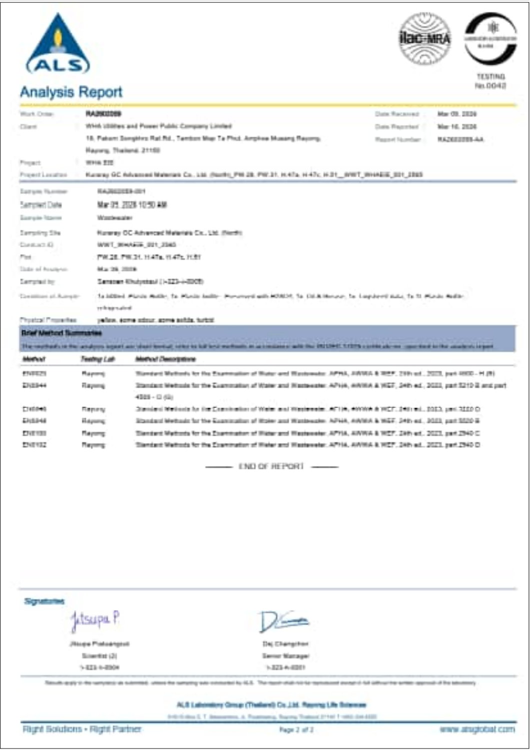

Analysis Report

TESTING No.0042

Work Order: RA2600359
Client: WHA Utilities and Power Public Company Limited
18, Pakorn Songkhro Rat Rd., Tambon Map Ta Phut, Amphoe Mueang Rayong, Rayong, Thailand, 21150
Project: WHA EIE
Project Location: Kuraray GC Advanced Materials Co., Ltd. (North)_PW.28, PW.31, H.47a, H.47c, H.51__WWT_WHAEIE_001_2565
Date Received: Mar 09, 2026
Date Reported: Mar 16, 2026
Report Number: RA2600359-AA

Sample Number: RA2600359-001
Sampled Date: Mar 05, 2026 10:50 AM
Sample Name: Wastewater
Sampling Site: Kuraray GC Advanced Materials Co., Ltd. (North)
Contract ID: WWT_WHAEIE_001_2565
Plot: PW.28, PW.31, H.47a, H.47c, H.51
Date of Analysis: [illegible]
Sampled by: Sansoen Khutyotsaul (1-223-I-0005)
Condition of Sample: [illegible]
Physical Properties: yellow, some odour, some solids, turbid

Brief Method Summaries

[illegible]

Method	Testing Lab	Method Descriptions
EN0023	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0100	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C
EN0102	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

——— END OF REPORT ———

Signatories

Jitsupa P
Jitsupa Piatsangpol
Scientist (2)
1-223-I-0004

Dej Changchon
Senior Manager
1-223-A-0001

[illegible]

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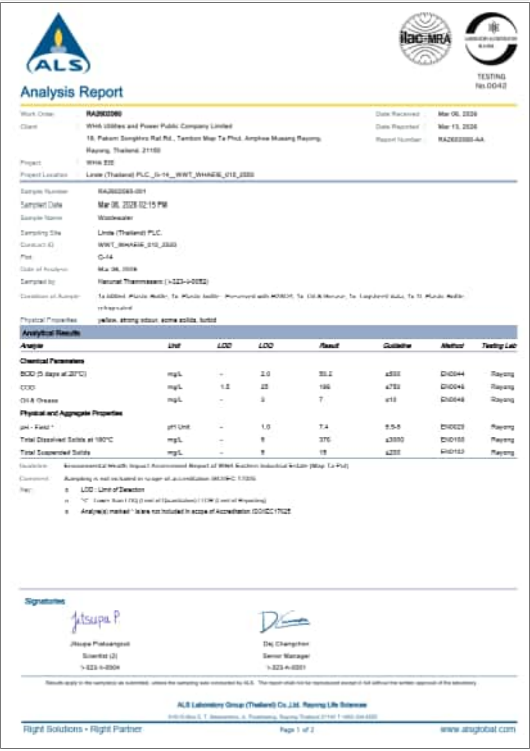

Analysis Report

TESTING No.0042

Work Order: RA2600360
Client: WHA Utilities and Power Public Company Limited
18, Pakorn Songkhro Rat Rd., Tambon Map Ta Phut, Amphoe Mueang Rayong, Rayong, Thailand, 21150
Project: WHA EIE
Project Location: Linde (Thailand) PLC._G-14__WWT_WHAEIE_010_2560
Date Received: Mar 06, 2026
Date Reported: Mar 13, 2026
Report Number: RA2600360-AA

Sample Number: RA2600360-001
Sampled Date: Mar 06, 2026 02:15 PM
Sample Name: Wastewater
Sampling Site: Linde (Thailand) PLC.
Contract ID: WWT_WHAEIE_010_2560
Plot: G-14
Date of Analysis: [illegible]
Sampled by: Naruenat Thammasarn (1-223-I-0052)
Condition of Sample: [illegible]
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	50.2	≤500	EN0044	Rayong
COD	mg/L	1.5	25	186	≤750	EN0046	Rayong
Oil & Grease	mg/L	-	3	7	≤10	EN0048	Rayong
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.4	5.5-9	EN0023	Rayong
Total Dissolved Solids at 180°C	mg/L	-	5	376	≤3000	EN0100	Rayong
Total Suspended Solids	mg/L	-	5	15	≤200	EN0102	Rayong

Guideline: Environmental Health Impact Assessment Report of WHA Eastern Industrial Estate (Map Ta Phut)
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

Jitsupa P
Jitsupa Piatsangpol
Scientist (2)
1-223-I-0004

Dej Changchon
Senior Manager
1-223-A-0001

[illegible]

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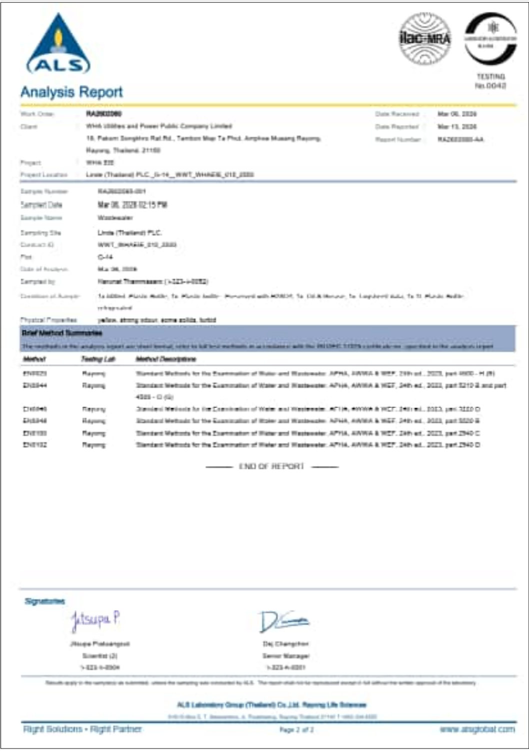

Analysis Report

TESTING No.0042

Work Order: RA2600360
Client: WHA Utilities and Power Public Company Limited
18, Pakorn Songkhro Rat Rd., Tambon Map Ta Phut, Amphoe Mueang Rayong, Rayong, Thailand, 21150
Project: WHA EIE
Project Location: Linde (Thailand) PLC._G-14__WWT_WHAEIE_010_2560
Date Received: Mar 06, 2026
Date Reported: Mar 13, 2026
Report Number: RA2600360-AA

Sample Number: RA2600360-001
Sampled Date: Mar 06, 2026 02:15 PM
Sample Name: Wastewater
Sampling Site: Linde (Thailand) PLC.
Contract ID: WWT_WHAEIE_010_2560
Plot: G-14
Date of Analysis: [illegible]
Sampled by: Naruenat Thammasarn (1-223-I-0052)
Condition of Sample: [illegible]
Physical Properties: yellow, strong odour, some solids, turbid

Brief Method Summaries

[illegible]

Method	Testing Lab	Method Descriptions
EN0023	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0100	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C
EN0102	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

——— END OF REPORT ———

Signatories

Jitsupa P
Jitsupa Piatsangpol
Scientist (2)
1-223-I-0004

Dej Changchon
Senior Manager
1-223-A-0001

[illegible]

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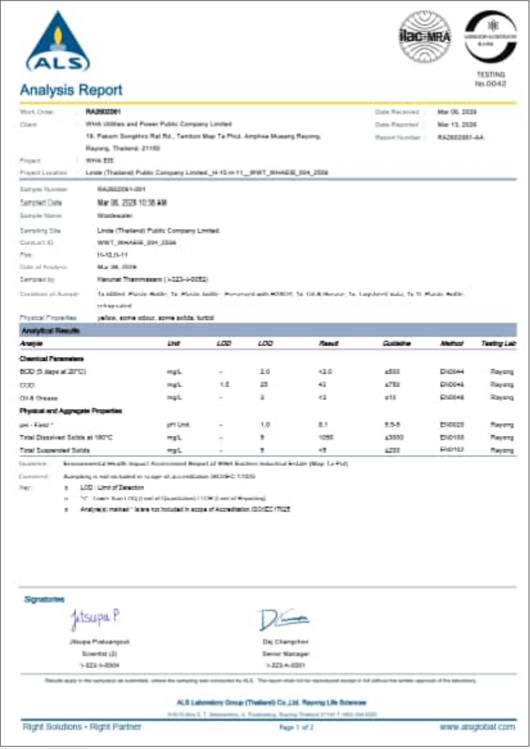
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Analysis Report

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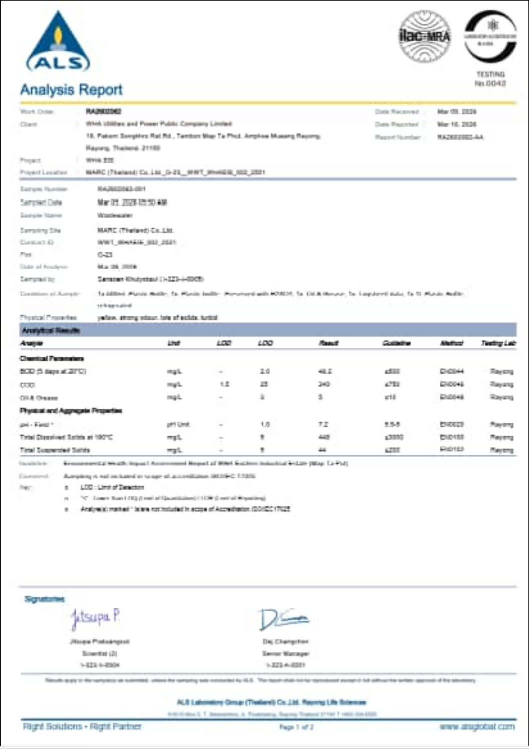
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Analysis Report

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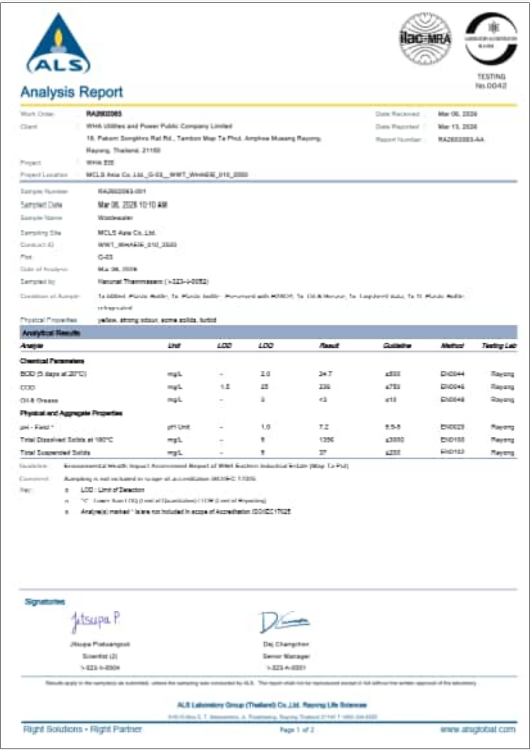
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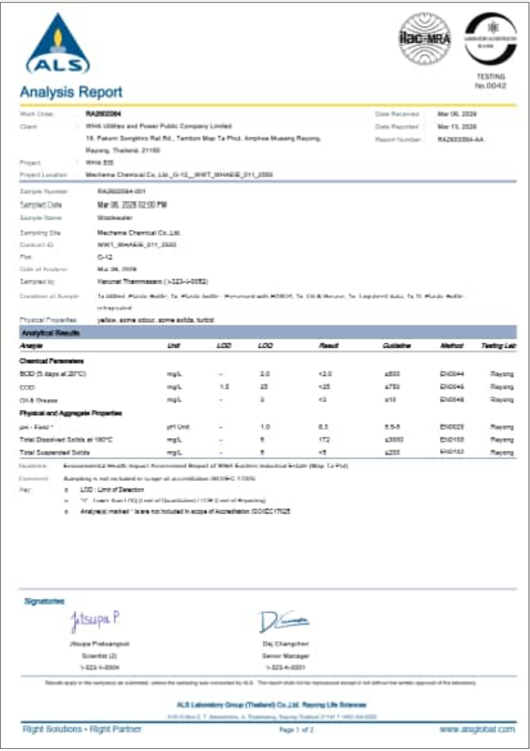
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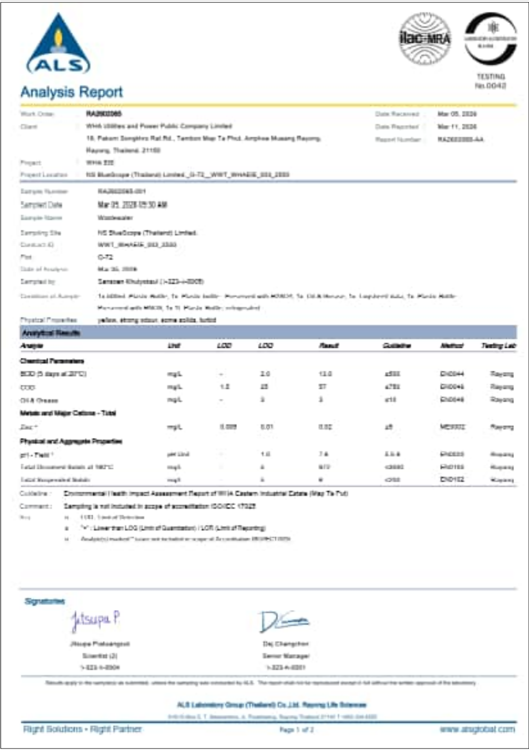
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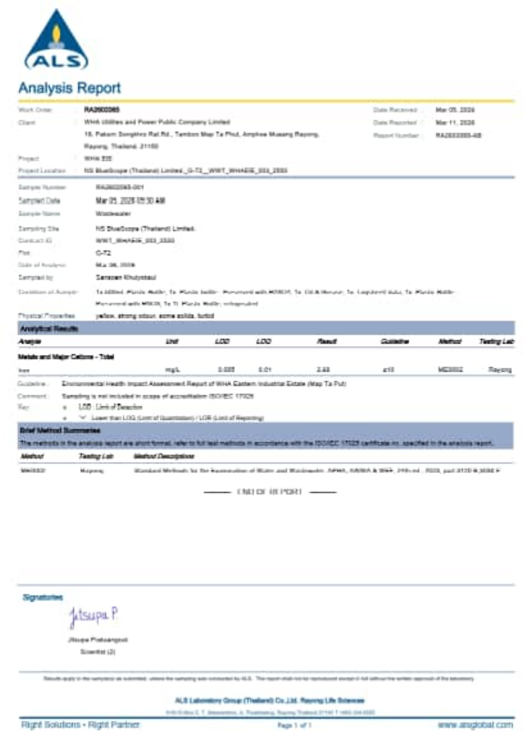
Analysis Report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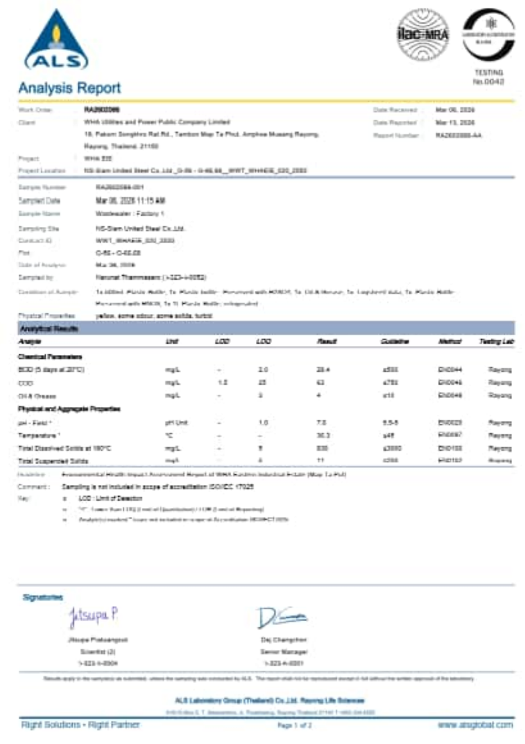
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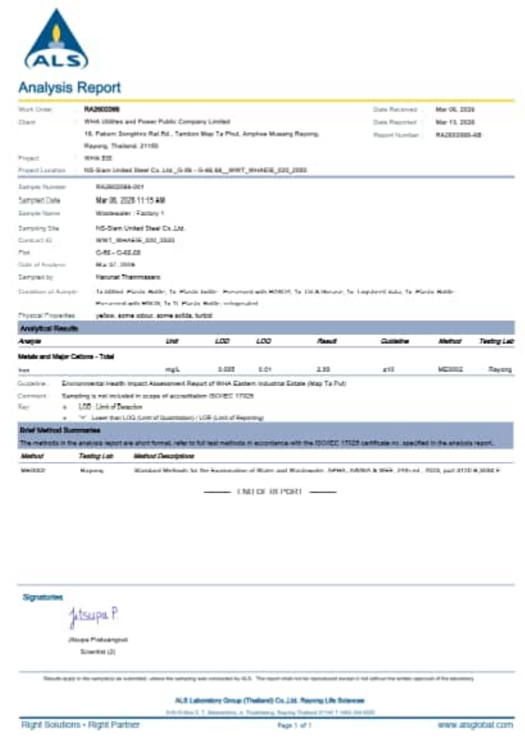
Analysis Report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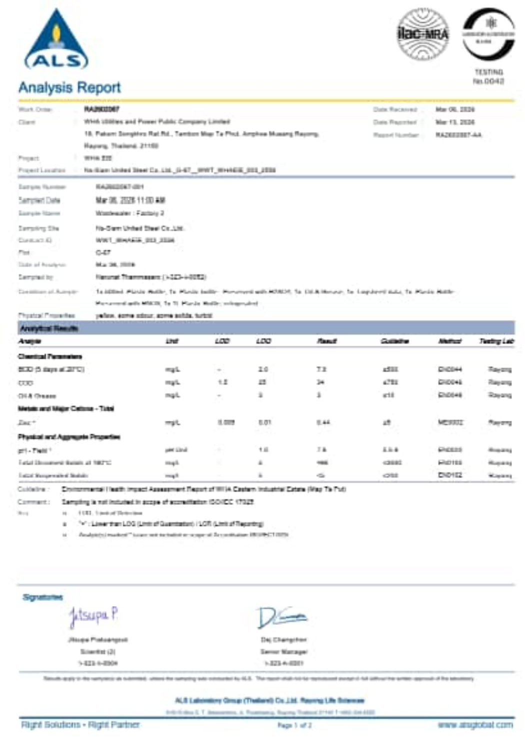
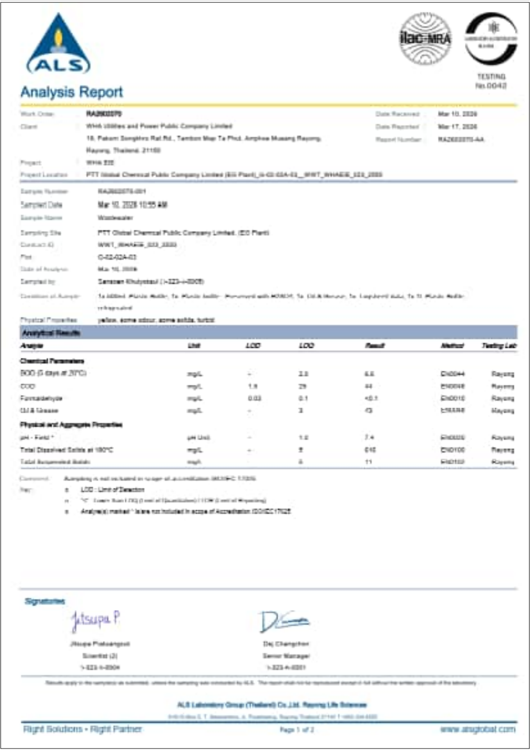
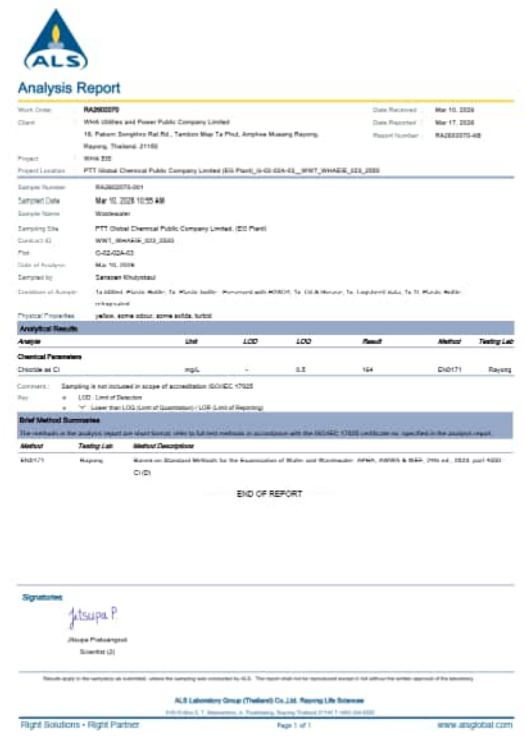

Analysis Report

Analysis Report


Analysis Report

Analysis Report



Analysis Report

Work Order	RA2600070	Date Received	Mar 10, 2026
Client	WHA Utilities and Power Public Company Limited 18, Pakorn Songkhro Rat Rd., Tambon Map Ta Phut, Amphoe Mueang Rayong, Rayong, Thailand, 21150	Date Reported	Mar 17, 2026
		Report Number	RA2600070-AB
Project	WHA EIE		
Project Location	PTT Global Chemical Public Company Limited (EO Plant)		

Sample Number: RA2600070-001
Sampled Date: Mar 10, 2026 10:55 AM
Sample Name: Wastewater
Sampling Site: PTT Global Chemical Public Company Limited. (EO Plant)
Plot: O-02-02A-03
Sampled by: Sansoen Khutyotsai
Physical Properties: yellow, some odour, some solids, turbid

Analytical Results

Analyte	Unit	LOD	LOQ	Result	Method	Testing Lab
Chemical Parameters						
Chloride as Cl	mg/L	-	0.5	164	EN0171	Rayong

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

Brief Method Summaries

Method	Testing Lab	Method Descriptions
EN0171	Rayong	Based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 Cl (D)

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Signatories

Jitsupa P

Scientist (2)

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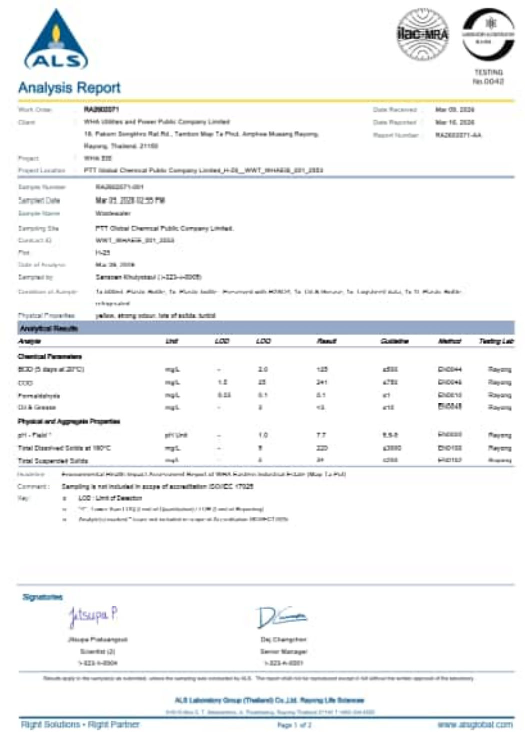

Analysis Report

TESTING
No.0042

Work Order	RA2600071	Date Received	Mar 09, 2026
Client	WHA Utilities and Power Public Company Limited 18, Pakorn Songkhro Rat Rd., Tambon Map Ta Phut, Amphoe Mueang Rayong, Rayong, Thailand, 21150	Date Reported	Mar 16, 2026
		Report Number	RA2600071-AA
Project	WHA EIE		
Project Location	PTT Global Chemical Public Company Limited_H-25		

Sample Number: RA2600071-001
Sampled Date: Mar 09, 2026 02:55 PM
Sample Name: Wastewater
Sampling Site: PTT Global Chemical Public Company Limited.
Plot: H-25
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	125	≤500	EN0044	Rayong
COD	mg/L	1.5	25	241	≤750	EN0046	Rayong
Formaldehyde	mg/L	0.03	0.1	0.1	≤1	EN0010	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	EN0048	Rayong
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.7	5.5-9	EN0023	Rayong
Total Dissolved Solids at 180°C	mg/L	-	5	220	≤3000	EN0100	Rayong
Total Suspended Solids	mg/L	-	5	34	≤200	EN0102	Rayong

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

Signatories

Jitsupa P

Scientist (2)

Senior Manager

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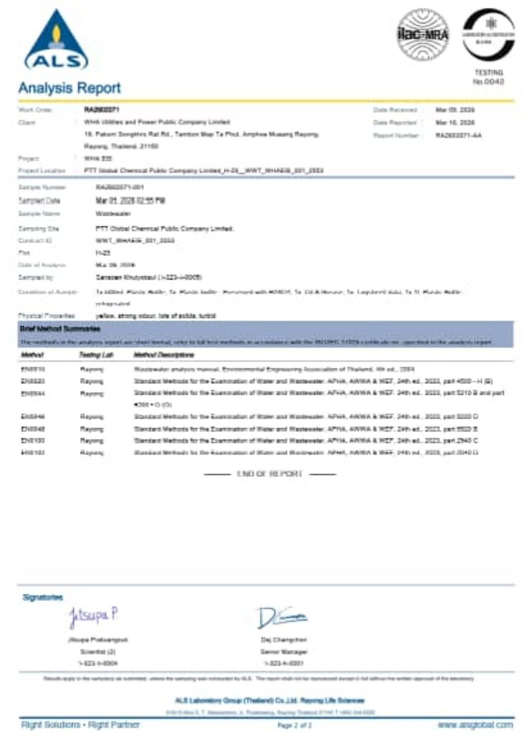


Analysis Report

TESTING
No.0042

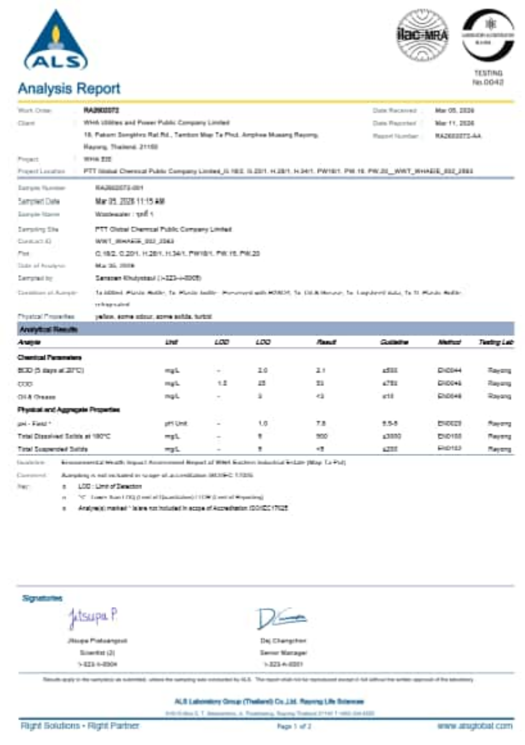
Work Order: RA2600071
Report Number: RA2600071-AA
Sample Number: RA2600071-001
Sampled Date: Mar 09, 2026 02:55 PM
Sample Name: Wastewater
Plot: H-25
Physical Properties: yellow, strong odour, lots of solids, turbid

Brief Method Summaries

Method	Testing Lab	Method Descriptions
EN0010	Rayong	Wastewater analysis manual, Environmental Engineering Association of Thailand, 4th ed., 2004
EN0023	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0100	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C
EN0102	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

END OF REPORT

Page 2 of 2



Analysis Report

TESTING
No.0042

Work Order	RA2600072	Date Received	Mar 05, 2026
Client	WHA Utilities and Power Public Company Limited 18, Pakorn Songkhro Rat Rd., Tambon Map Ta Phut, Amphoe Mueang Rayong, Rayong, Thailand, 21150	Date Reported	Mar 11, 2026
		Report Number	RA2600072-AA
Project	WHA EIE		

Sample Number: RA2600072-001
Sampled Date: Mar 05, 2026 11:15 AM
Sample Name: Wastewater : จุดที่ 1
Sampling Site: PTT Global Chemical Public Company Limited
Plot: O.18/2, O.20/1, H.28/1, H.34/1, PW18/1, PW.15, PW.20
Physical Properties: yellow, some odour, some solids, turbid

Analytical Results

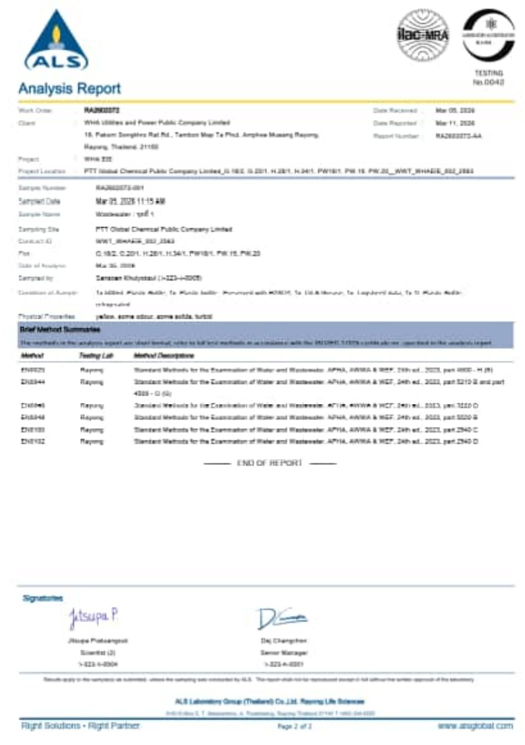
Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	2.1	≤500	EN0044	Rayong
COD	mg/L	1.5	25	51	≤750	EN0046	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	EN0048	Rayong
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.8	5.5-9	EN0023	Rayong
Total Dissolved Solids at 180°C	mg/L	-	5	500	≤3000	EN0100	Rayong
Total Suspended Solids	mg/L	-	5	<5	≤200	EN0102	Rayong

Key: LOD : Limit of Detection
Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC17025

Signatories

Jitsupa P

Page 1 of 2



Analysis Report

TESTING
No.0042

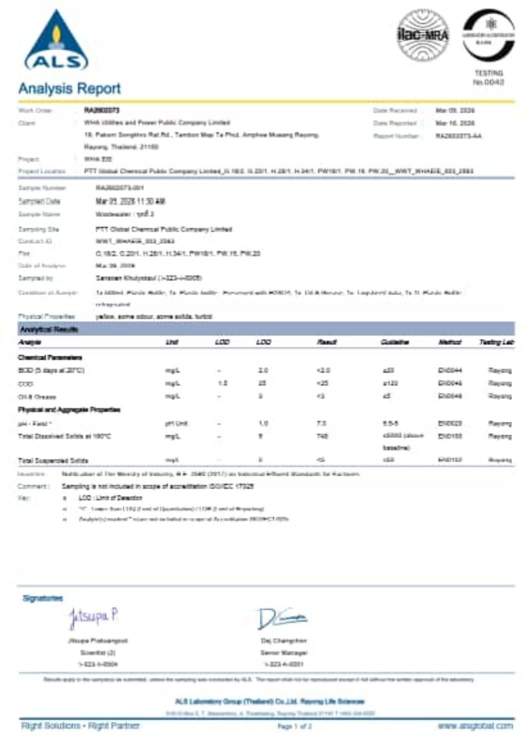
Work Order: RA2600072
Report Number: RA2600072-AA
Sample Number: RA2600072-001
Sampled Date: Mar 05, 2026 11:15 AM
Sample Name: Wastewater : จุดที่ 1
Plot: O.18/2, O.20/1, H.28/1, H.34/1, PW18/1, PW.15, PW.20
Physical Properties: yellow, some odour, some solids, turbid

Brief Method Summaries

Method	Testing Lab	Method Descriptions
EN0023	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0100	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C
EN0102	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

END OF REPORT

Page 2 of 2



Analysis Report

TESTING
No.0042

Work Order	RA2600073	Date Received	Mar 09, 2026
Client	WHA Utilities and Power Public Company Limited 18, Pakorn Songkhro Rat Rd., Tambon Map Ta Phut, Amphoe Mueang Rayong, Rayong, Thailand, 21150	Date Reported	Mar 16, 2026
		Report Number	RA2600073-AA
Project	WHA EIE		

Sample Number: RA2600073-001
Sampled Date: Mar 05, 2026 11:30 AM
Sample Name: Wastewater : จุดที่ 2
Sampling Site: PTT Global Chemical Public Company Limited
Plot: O.18/2, O.20/1, H.28/1, H.34/1, PW18/1, PW.15, PW.20
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	≤20	EN0044	Rayong
COD	mg/L	1.5	25	<25	≤120	EN0046	Rayong
Oil & Grease	mg/L	-	3	<3	≤5	EN0048	Rayong
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.3	5.5-9	EN0023	Rayong
Total Dissolved Solids at 180°C	mg/L	-	5	748	≤3000 (above baseline)	EN0100	Rayong
Total Suspended Solids	mg/L	-	5	<5	≤50	EN0102	Rayong

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

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Jitsupa P

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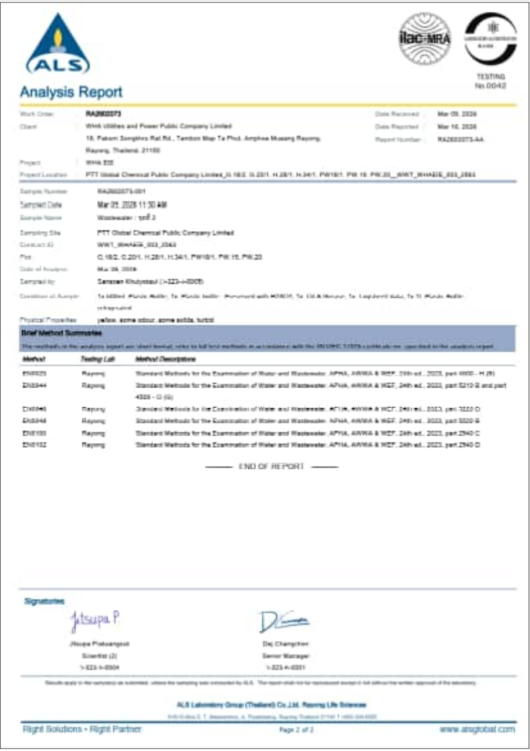


Analysis Report

TESTING
No.0042

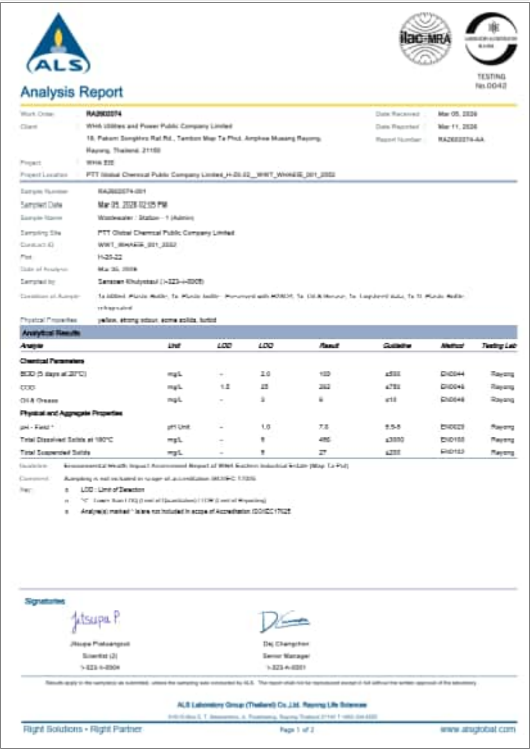
Work Order: RA2600073
Report Number: RA2600073-AA
Sample Number: RA2600073-001
Sampled Date: Mar 05, 2026 11:30 AM
Sample Name: Wastewater : จุดที่ 2
Plot: O.18/2, O.20/1, H.28/1, H.34/1, PW18/1, PW.15, PW.20
Physical Properties: yellow, some odour, some solids, turbid

Brief Method Summaries

Method	Testing Lab	Method Descriptions
EN0023	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0100	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C
EN0102	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

END OF REPORT

Page 2 of 2



Analysis Report

TESTING
No.0042

Work Order	RA2600074	Date Received	Mar 05, 2026
Client	WHA Utilities and Power Public Company Limited 18, Pakorn Songkhro Rat Rd., Tambon Map Ta Phut, Amphoe Mueang Rayong, Rayong, Thailand, 21150	Date Reported	Mar 11, 2026
		Report Number	RA2600074-AA
Project	WHA EIE		
Project Location	PTT Global Chemical Public Company Limited_H-20-22		

Sample Number: RA2600074-001
Sampled Date: Mar 05, 2026 02:05 PM
Sample Name: Wastewater : Station - 1 (Admin)
Sampling Site: PTT Global Chemical Public Company Limited
Plot: H-20-22
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	≤500	EN0044	Rayong
COD	mg/L	1.5	25	262	≤750	EN0046	Rayong
Oil & Grease	mg/L	-	3	6	≤10	EN0048	Rayong
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.8	5.5-9	EN0023	Rayong
Total Dissolved Solids at 180°C	mg/L	-	5	486	≤3000	EN0100	Rayong
Total Suspended Solids	mg/L	-	5	27	≤200	EN0102	Rayong

Key: LOD : Limit of Detection
Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC17025

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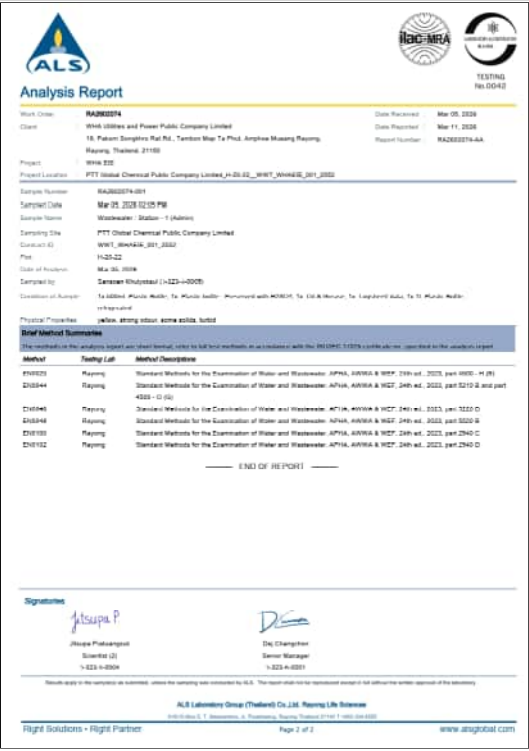

Analysis Report

TESTING
No.0042

Work Order: RA2600074
Report Number: RA2600074-AA
Sample Number: RA2600074-001
Sampled Date: Mar 05, 2026 02:05 PM
Sample Name: Wastewater : Station - 1 (Admin)
Plot: H-20-22
Physical Properties: yellow, strong odour, some solids, turbid

Brief Method Summaries

Method	Testing Lab	Method Descriptions
EN0023	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0100	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C
EN0102	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

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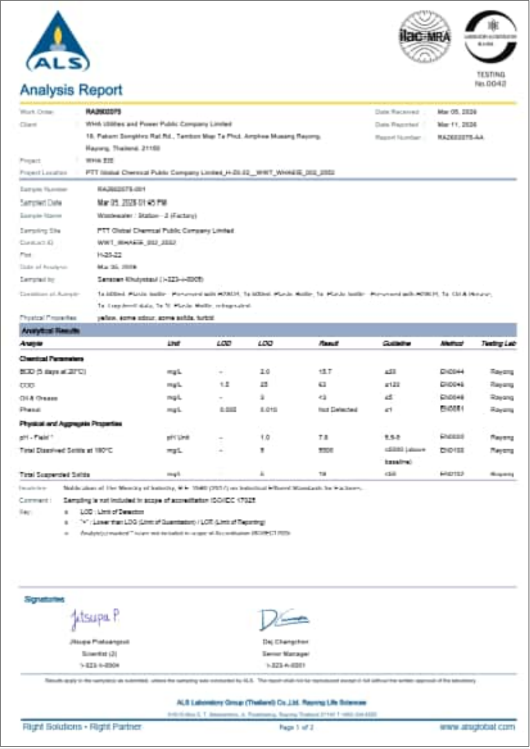
Page 2 of 2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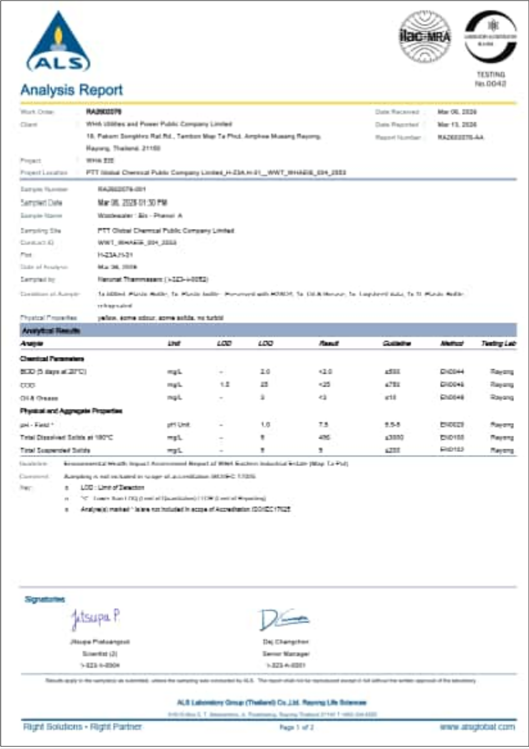
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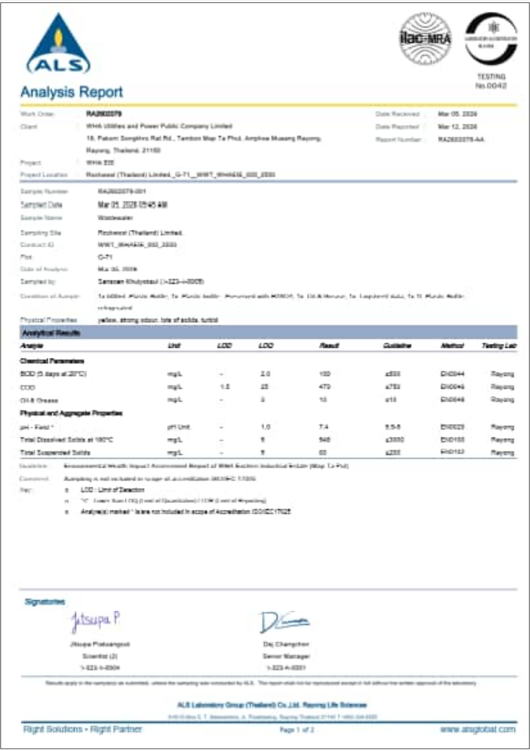
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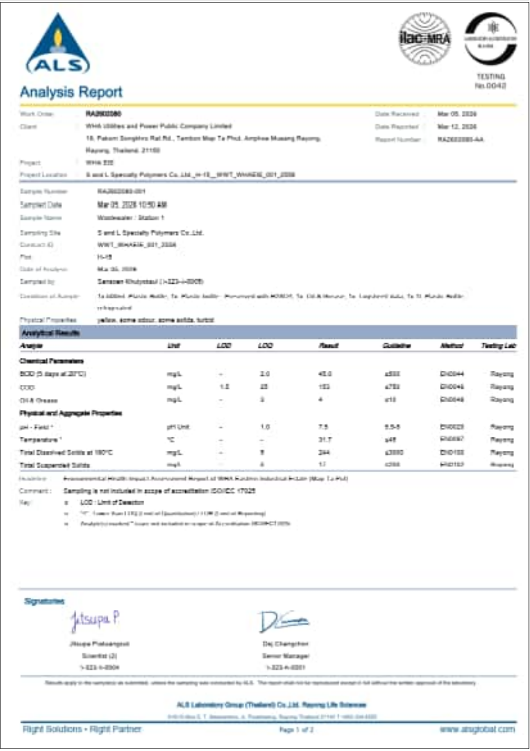
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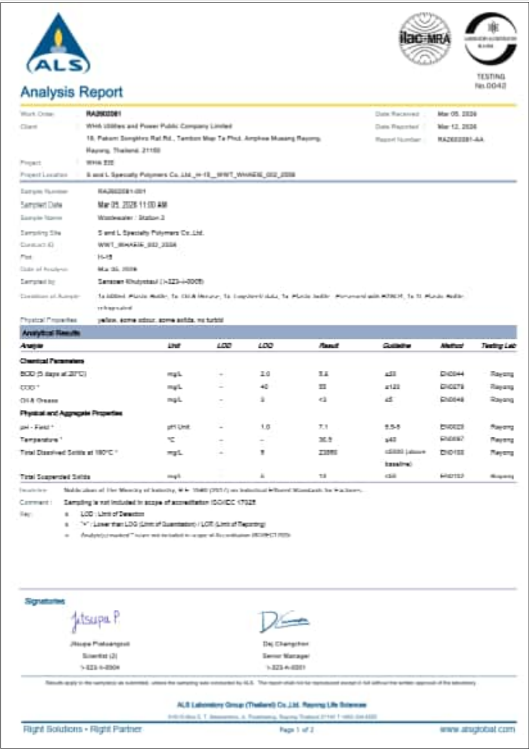
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Analysis Report

yellow, some odour, some solids, no turbid

Brief Method Summaries

—— END OF REPORT ——

Signatories

Jitsupa P

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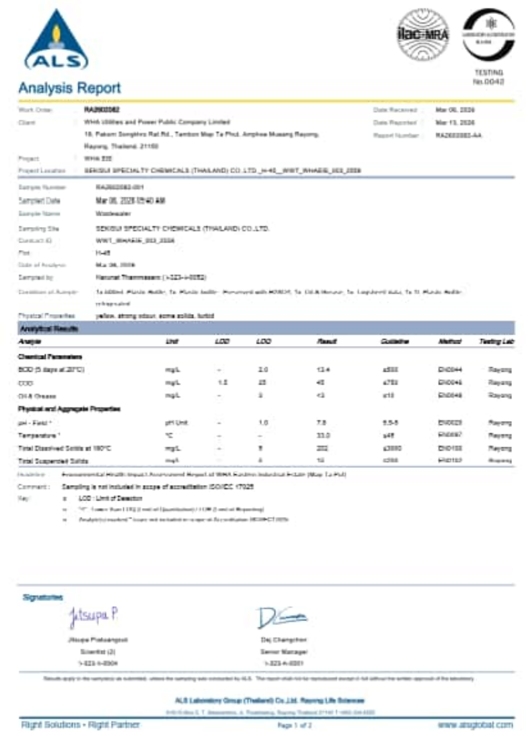
Analysis Report

SEKISUI SPECIALTY CHEMICALS (THAILAND) CO.,LTD.

yellow, strong odour, some solids, turbid

Analytical Results

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

Signatories

Jitsupa P

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Analysis Report

SEKISUI SPECIALTY CHEMICALS (THAILAND) CO.,LTD.

Brief Method Summaries

—— END OF REPORT ——

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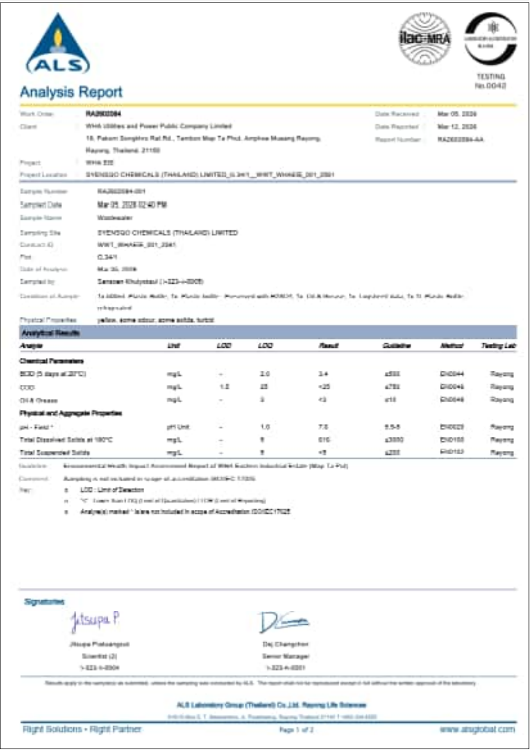
Analysis Report

SYENSQO CHEMICALS (THAILAND) LIMITED

Analytical Results

Signatories

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Analysis Report

SYENSQO CHEMICALS (THAILAND) LIMITED

Brief Method Summaries

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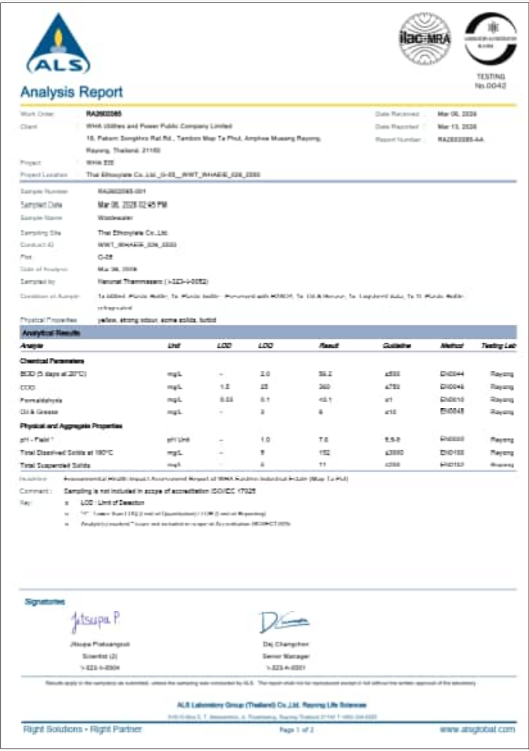
Analysis Report

Analytical Results

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

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Analysis Report

Brief Method Summaries

—— END OF REPORT ——

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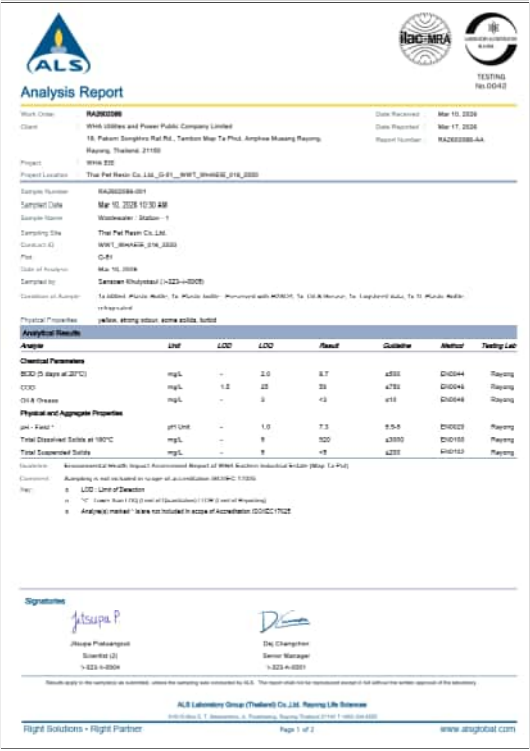
Analysis Report

Analytical Results

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Analysis Report

Brief Method Summaries

—— END OF REPORT ——

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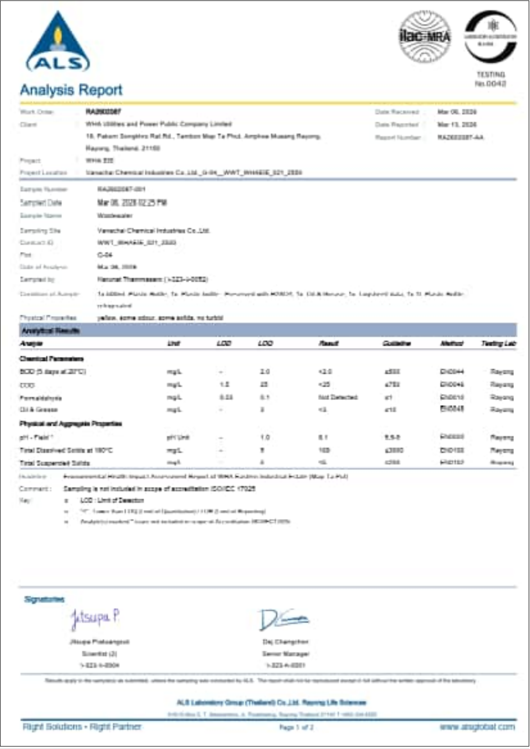

Analysis Report

TESTING
No.0042

Work Order	RA2602087	Date Received	Mar 06, 2026
Client	WHA Utilities and Power Public Company Limited 18, Pakorn Songkhro Rat Rd., Tambon Map Ta Phut, Amphoe Mueang Rayong, Rayong, Thailand, 21150	Date Reported	Mar 13, 2026
		Report Number	RA2602087-AA
Project	WHA EIE		
Project Location	Vanachai Chemical Industries Co.,Ltd._G-04__WWT_WHAEIE_021_2559		

Sample Number: RA2602087-001
Sampled Date: Mar 06, 2026 02:25 PM
Sample Name: Wastewater
Sampling Site: Vanachai Chemical Industries Co.,Ltd.
Contract ID: WWT_WHAEIE_021_2559
Plot: G-04
Date of Analysis: Mar 06, 2026
Sampled by: Nanurat Thammasarn (1-323-4-0052)
Condition of Sample: [illegible]
Physical Properties: yellow, some odour, some solids, no 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	Rayong
COD	mg/L	1.5	25	<25	≤750	EN0046	Rayong
Formaldehyde	mg/L	0.03	0.1	Not Detected	≤1	EN0010	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	EN0048	Rayong
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	8.1	5.5-9	EN0023	Rayong
Total Dissolved Solids at 180°C	mg/L	-	5	103	≤3000	EN0100	Rayong
Total Suspended Solids	mg/L	-	5	<5	≤200	EN0102	Rayong

Guideline: Environmental Health Impact Assessment Report of WHA Eastern Industrial Estate (Map Ta Phut)
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

Jitsupa P

Jitsupa Plaksangpol	Daj Changchon
Scientist (2)	Senior Manager
1-323-4-0304	1-323-4-0001

ALS Laboratory Group (Thailand) Co.,Ltd. Rayong Life Sciences

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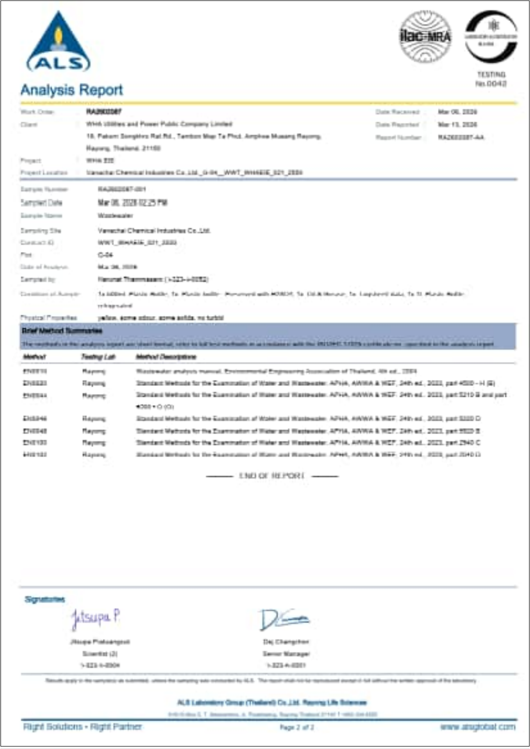

Analysis Report

TESTING
No.0042

Work Order	RA2602087	Date Received	Mar 06, 2026
Client	WHA Utilities and Power Public Company Limited 18, Pakorn Songkhro Rat Rd., Tambon Map Ta Phut, Amphoe Mueang Rayong, Rayong, Thailand, 21150	Date Reported	Mar 13, 2026
		Report Number	RA2602087-AA
Project	WHA EIE		
Project Location	Vanachai Chemical Industries Co.,Ltd._G-04__WWT_WHAEIE_021_2559		

Sample Number: RA2602087-001
Sampled Date: Mar 06, 2026 02:25 PM
Sample Name: Wastewater
Sampling Site: Vanachai Chemical Industries Co.,Ltd.
Contract ID: WWT_WHAEIE_021_2559
Plot: G-04
Date of Analysis: Mar 06, 2026
Sampled by: Nanurat Thammasarn (1-323-4-0052)
Condition of Sample: [illegible]
Physical Properties: yellow, some odour, some solids, no turbid

Brief Method Summaries

[illegible]

Method	Testing Lab	Method Descriptions
EN0010	Rayong	Wastewater analysis manual, Environmental Engineering Association of Thailand, 4th ed., 2004
EN0023	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0100	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C
EN0102	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

END OF REPORT

Signatories

Jitsupa P

Jitsupa Plaksangpol	Daj Changchon
Scientist (2)	Senior Manager
1-323-4-0304	1-323-4-0001

ALS Laboratory Group (Thailand) Co.,Ltd. Rayong Life Sciences

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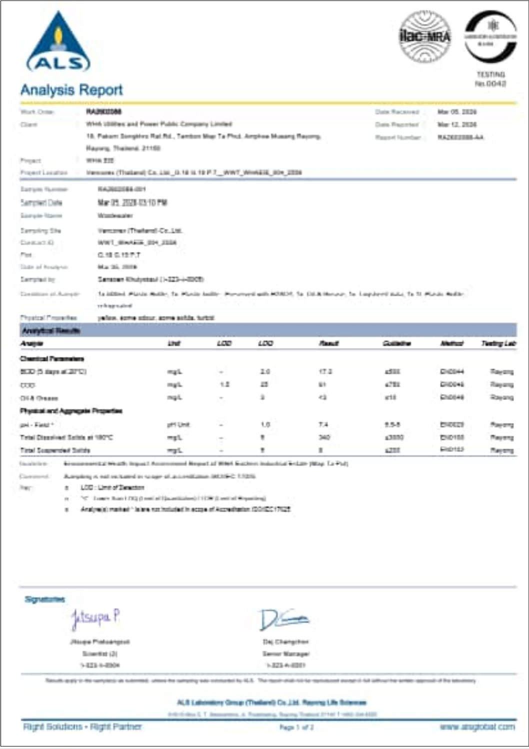

Analysis Report

TESTING
No.0042

Work Order	RA2602088	Date Received	Mar 05, 2026
Client	WHA Utilities and Power Public Company Limited 18, Pakorn Songkhro Rat Rd., Tambon Map Ta Phut, Amphoe Mueang Rayong, Rayong, Thailand, 21150	Date Reported	Mar 12, 2026
		Report Number	RA2602088-AA
Project	WHA EIE		
Project Location	Vencorex (Thailand) Co.,Ltd._G.18 G.19 P.T__WWT_WHAEIE_004_2558		

Sample Number: RA2602088-001
Sampled Date: Mar 05, 2026 03:10 PM
Sample Name: Wastewater
Sampling Site: Vencorex (Thailand) Co.,Ltd.
Contract ID: WWT_WHAEIE_004_2558
Plot: G.18 G.19 P.T
Date of Analysis: Mar 05, 2026
Sampled by: Sansoen Khutyotsai (1-323-4-0005)
Condition of Sample: [illegible]
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	17.2	≤500	EN0044	Rayong
COD	mg/L	1.5	25	61	≤750	EN0046	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	EN0048	Rayong
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.4	5.5-9	EN0023	Rayong
Total Dissolved Solids at 180°C	mg/L	-	5	340	≤3000	EN0100	Rayong
Total Suspended Solids	mg/L	-	5	8	≤200	EN0102	Rayong

Guideline: Environmental Health Impact Assessment Report of WHA Eastern Industrial Estate (Map Ta Phut)
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

Jitsupa P

Jitsupa Plaksangpol	Daj Changchon
Scientist (2)	Senior Manager
1-323-4-0304	1-323-4-0001

ALS Laboratory Group (Thailand) Co.,Ltd. Rayong Life Sciences

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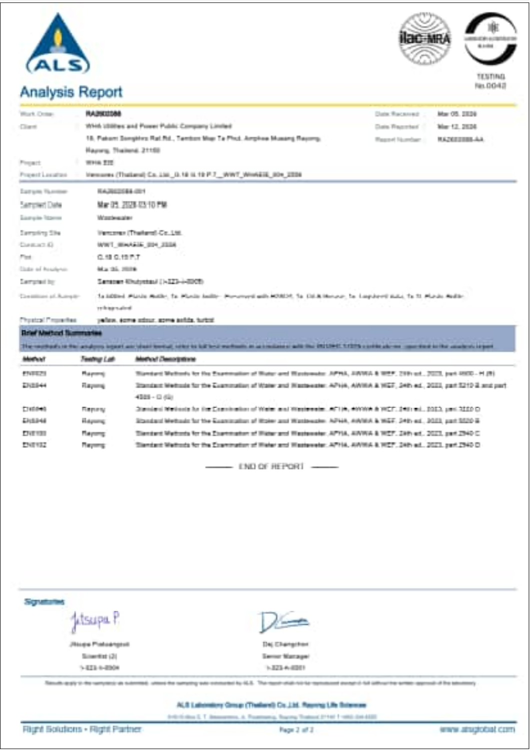

Analysis Report

TESTING
No.0042

Work Order	RA2602088	Date Received	Mar 05, 2026
Client	WHA Utilities and Power Public Company Limited 18, Pakorn Songkhro Rat Rd., Tambon Map Ta Phut, Amphoe Mueang Rayong, Rayong, Thailand, 21150	Date Reported	Mar 12, 2026
		Report Number	RA2602088-AA
Project	WHA EIE		
Project Location	Vencorex (Thailand) Co.,Ltd._G.18 G.19 P.T__WWT_WHAEIE_004_2558		

Sample Number: RA2602088-001
Sampled Date: Mar 05, 2026 03:10 PM
Sample Name: Wastewater
Sampling Site: Vencorex (Thailand) Co.,Ltd.
Contract ID: WWT_WHAEIE_004_2558
Plot: G.18 G.19 P.T
Date of Analysis: Mar 05, 2026
Sampled by: Sansoen Khutyotsai (1-323-4-0005)
Condition of Sample: [illegible]
Physical Properties: yellow, some odour, some solids, turbid

Brief Method Summaries

[illegible]

Method	Testing Lab	Method Descriptions
EN0023	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0100	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C
EN0102	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

END OF REPORT

Signatories

Jitsupa P

Jitsupa Plaksangpol	Daj Changchon
Scientist (2)	Senior Manager
1-323-4-0304	1-323-4-0001

ALS Laboratory Group (Thailand) Co.,Ltd. Rayong Life Sciences

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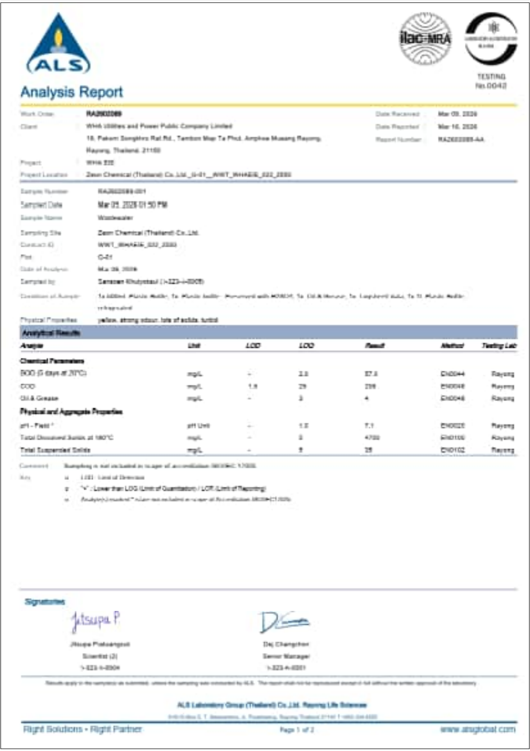

Analysis Report

TESTING
No.0042

Work Order	RA2602089	Date Received	Mar 09, 2026
Client	WHA Utilities and Power Public Company Limited 18, Pakorn Songkhro Rat Rd., Tambon Map Ta Phut, Amphoe Mueang Rayong, Rayong, Thailand, 21150	Date Reported	Mar 16, 2026
		Report Number	RA2602089-AA
Project	WHA EIE		
Project Location	Zeon Chemical (Thailand) Co.,Ltd._G-01__WWT_WHAEIE_022_2560		

Sample Number: RA2602089-001
Sampled Date: Mar 05, 2026 01:50 PM
Sample Name: Wastewater
Sampling Site: Zeon Chemical (Thailand) Co.,Ltd.
Contract ID: WWT_WHAEIE_022_2560
Plot: G-01
Date of Analysis: Mar 09, 2026
Sampled by: Sansoen Khutyotsai (1-323-4-0005)
Condition of Sample: [illegible]
Physical Properties: yellow, strong odour, lots of solids, turbid

Analytical Results

Analyte	Unit	LOD	LOQ	Result	Method	Testing Lab
Chemical Parameters						
BOD (5 days at 20°C)	mg/L	-	2.0	37.3	EN0044	Rayong
COD	mg/L	1.5	25	239	EN0046	Rayong
Oil & Grease	mg/L	-	3	4	EN0048	Rayong
Physical and Aggregate Properties						
pH - Field *	pH Unit	-	1.0	7.1	EN0023	Rayong
Total Dissolved Solids at 180°C	mg/L	-	5	4700	EN0100	Rayong
Total Suspended Solids	mg/L	-	5	28	EN0102	Rayong

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

Jitsupa P

Jitsupa Plaksangpol	Daj Changchon
Scientist (2)	Senior Manager
1-323-4-0304	1-323-4-0001

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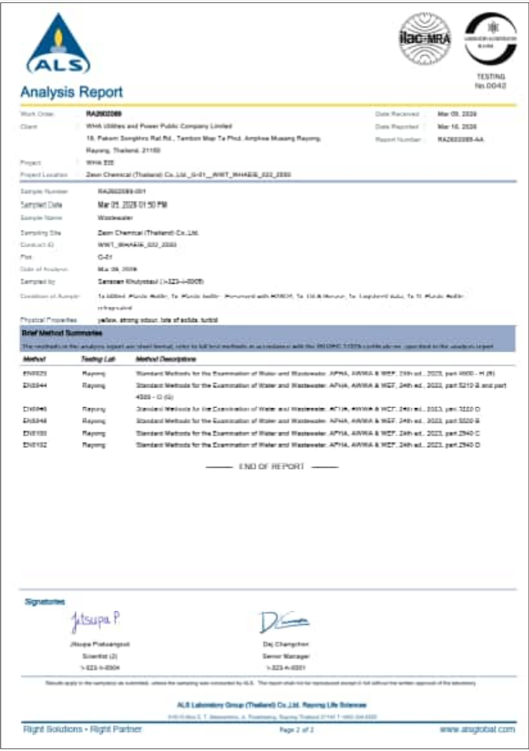

Analysis Report

TESTING
No.0042

Work Order	RA2602089	Date Received	Mar 09, 2026
Client	WHA Utilities and Power Public Company Limited 18, Pakorn Songkhro Rat Rd., Tambon Map Ta Phut, Amphoe Mueang Rayong, Rayong, Thailand, 21150	Date Reported	Mar 16, 2026
		Report Number	RA2602089-AA
Project	WHA EIE		
Project Location	Zeon Chemical (Thailand) Co.,Ltd._G-01__WWT_WHAEIE_022_2560		

Sample Number: RA2602089-001
Sampled Date: Mar 05, 2026 01:50 PM
Sample Name: Wastewater
Sampling Site: Zeon Chemical (Thailand) Co.,Ltd.
Contract ID: WWT_WHAEIE_022_2560
Plot: G-01
Date of Analysis: Mar 09, 2026
Sampled by: Sansoen Khutyotsai (1-323-4-0005)
Condition of Sample: [illegible]
Physical Properties: yellow, strong odour, lots of solids, turbid

Brief Method Summaries

[illegible]

Method	Testing Lab	Method Descriptions
EN0023	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0100	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C
EN0102	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

END OF REPORT

Signatories

Jitsupa P

Jitsupa Plaksangpol	Daj Changchon
Scientist (2)	Senior Manager
1-323-4-0304	1-323-4-0001

ALS Laboratory Group (Thailand) Co.,Ltd. Rayong Life Sciences

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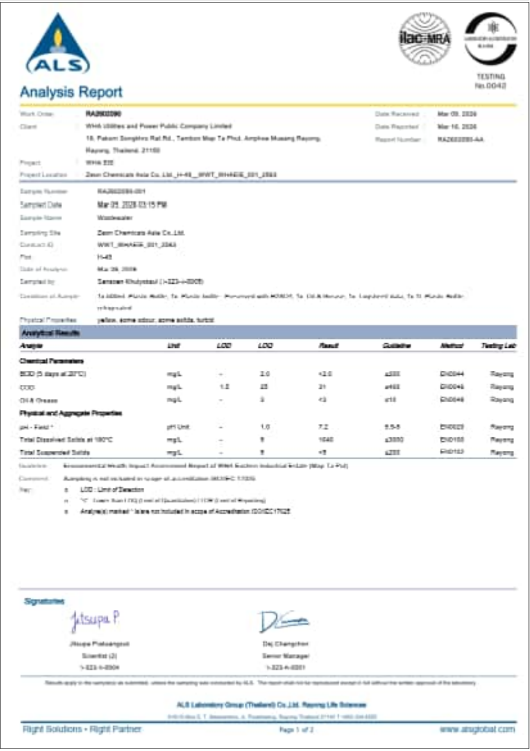

Analysis Report

TESTING
No.0042

Work Order	RA2602090	Date Received	Mar 09, 2026
Client	WHA Utilities and Power Public Company Limited 18, Pakorn Songkhro Rat Rd., Tambon Map Ta Phut, Amphoe Mueang Rayong, Rayong, Thailand, 21150	Date Reported	Mar 16, 2026
		Report Number	RA2602090-AA
Project	WHA EIE		
Project Location	Zeon Chemicals Asia Co.,Ltd._H-48__WWT_WHAEIE_001_2563		

Sample Number: RA2602090-001
Sampled Date: Mar 05, 2026 03:15 PM
Sample Name: Wastewater
Sampling Site: Zeon Chemicals Asia Co.,Ltd.
Contract ID: WWT_WHAEIE_001_2563
Plot: H-48
Date of Analysis: Mar 09, 2026
Sampled by: Sansoen Khutyotsai (1-323-4-0005)
Condition of Sample: [illegible]
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	≤200	EN0044	Rayong
COD	mg/L	1.5	25	31	≤400	EN0046	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	EN0048	Rayong
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.2	5.5-9	EN0023	Rayong
Total Dissolved Solids at 180°C	mg/L	-	5	1640	≤3000	EN0100	Rayong
Total Suspended Solids	mg/L	-	5	<5	≤200	EN0102	Rayong

Guideline: Environmental Health Impact Assessment Report of WHA Eastern Industrial Estate (Map Ta Phut)
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

Jitsupa P

Jitsupa Plaksangpol	Daj Changchon
Scientist (2)	Senior Manager
1-323-4-0304	1-323-4-0001

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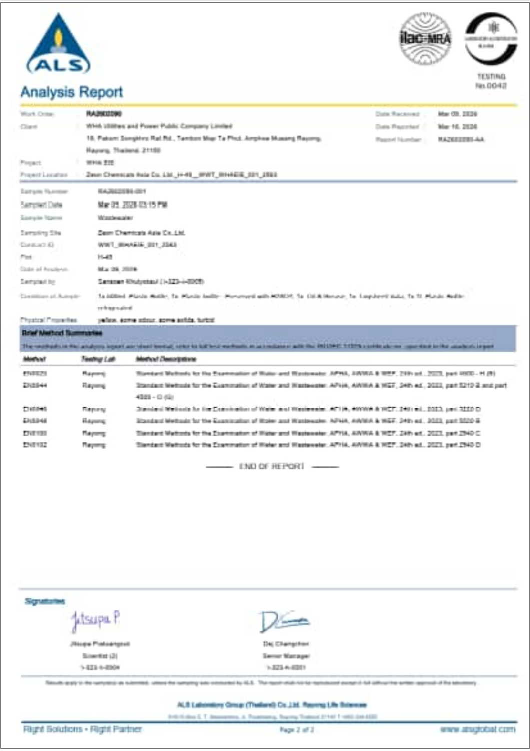

Analysis Report

TESTING
No.0042

Work Order	RA2602090	Date Received	Mar 09, 2026
Client	WHA Utilities and Power Public Company Limited 18, Pakorn Songkhro Rat Rd., Tambon Map Ta Phut, Amphoe Mueang Rayong, Rayong, Thailand, 21150	Date Reported	Mar 16, 2026
		Report Number	RA2602090-AA
Project	WHA EIE		
Project Location	Zeon Chemicals Asia Co.,Ltd._H-48__WWT_WHAEIE_001_2563		

Sample Number: RA2602090-001
Sampled Date: Mar 05, 2026 03:15 PM
Sample Name: Wastewater
Sampling Site: Zeon Chemicals Asia Co.,Ltd.
Contract ID: WWT_WHAEIE_001_2563
Plot: H-48
Date of Analysis: Mar 09, 2026
Sampled by: Sansoen Khutyotsai (1-323-4-0005)
Condition of Sample: [illegible]
Physical Properties: yellow, some odour, some solids, turbid

Brief Method Summaries

[illegible]

Method	Testing Lab	Method Descriptions
EN0023	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0100	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C
EN0102	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

END OF REPORT

Signatories

Jitsupa P

Jitsupa Plaksangpol	Daj Changchon
Scientist (2)	Senior Manager
1-323-4-0304	1-323-4-0001

ALS Laboratory Group (Thailand) Co.,Ltd. Rayong Life Sciences

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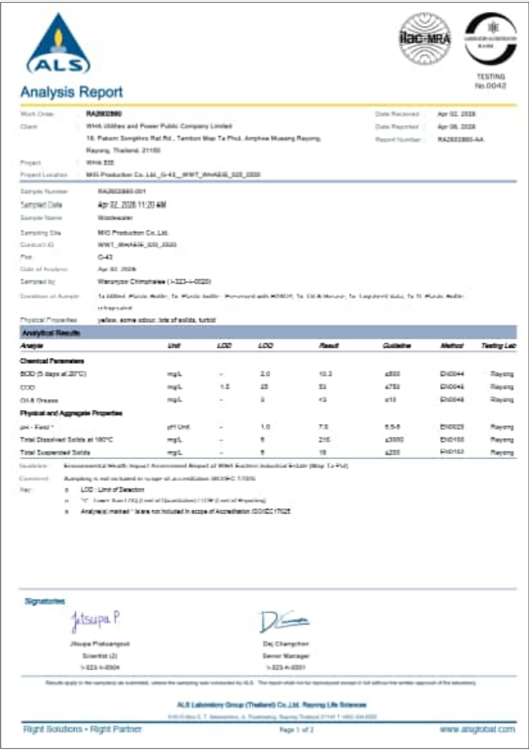


Analysis Report

TESTING
No.0042

Work Order	RA2602880	Date Received	Apr 02, 2026
Client	WHA Utilities and Power Public Company Limited 18, Pakorn Songkhro Rat Rd., Tambon Map Ta Phut, Amphoe Mueang Rayong, Rayong, Thailand, 21150	Date Reported	Apr 08, 2026
		Report Number	RA2602880-AA
Project	WHA EIE		
Project Location	MIG Production Co.,Ltd._G-43__WWT_WHAEIE_020_2560		

Sample Number: RA2602880-001
Sampled Date: Apr 02, 2026 11:20 AM
Sample Name: Wastewater
Sampling Site: MIG Production Co.,Ltd.
Contract ID: WWT_WHAEIE_020_2560
Plot: G-43
Date of Analysis: Apr 02, 2026
Sampled by: Waranyoo Chimphalee (1-323-4-0020)
Condition of Sample: [illegible]
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	10.3	≤500	EN0044	Rayong
COD	mg/L	1.5	25	53	≤750	EN0046	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	EN0048	Rayong
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.8	5.5-9	EN0023	Rayong
Total Dissolved Solids at 180°C	mg/L	-	5	216	≤3000	EN0100	Rayong
Total Suspended Solids	mg/L	-	5	18	≤200	EN0102	Rayong

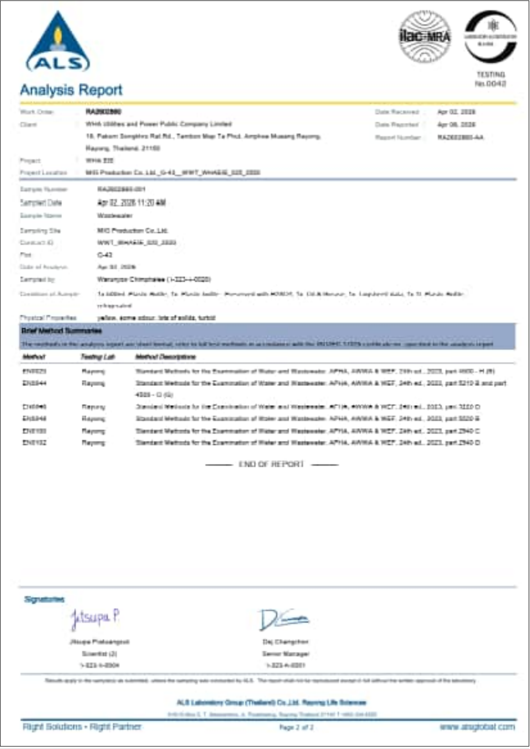
Guideline: Environmental Health Impact Assessment Report of WHA Eastern Industrial Estate (Map Ta Phut)
Comment: Sampling is not included in scope of accreditation ISO/IEC 17025
Key:
- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025

Signatories

Jitsupa P

Jitsupa Plaksangpol	Daj Changchon
Scientist (2)	Senior Manager
1-323-4-0304	1-323-4-0001

ALS Laboratory Group (Thailand) Co.,Ltd. Rayong Life Sciences



Analysis Report

Work Order: RA2602860 | Date Received: Apr 02, 2026
Client: WHA Utilities and Power Public Company Limited | Date Reported: Apr 08, 2026
18, Pakorn Songkhro Rat Rd., Tambon Map Ta Phut, Amphoe Mueang Rayong, Rayong, Thailand, 21150 | Report Number: RA2602860-AA
Project: WHA EIE
Project Location: MIS Production Co. Ltd._G-43__WWT_WHAEIE_[illegible]

Sample Number: RA2602860-001
Sampled Date: Apr 02, 2026 11:20 AM
Sample Name: Wastewater
Sampling Site: MIS Production Co. Ltd.
Contact ID: WWT_WHAEIE_[illegible]
Plot: G-43
Date of Analysis: Apr 02, 2026
Sampled by: Waranyoo Chimphalee (1-223-+-0020)
Condition of Sample: [illegible]
Physical Properties: yellow, some odour, lots of solids, turbid

Brief Method Summaries

[illegible]

Method	Testing Lab	Method Descriptions
EN0023	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0100	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C
EN0102	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

——— END OF REPORT ———

Signatories
Jitsupa P
Jitsupa [illegible] | Dej Changchan
Scientist (2) | Senior Manager

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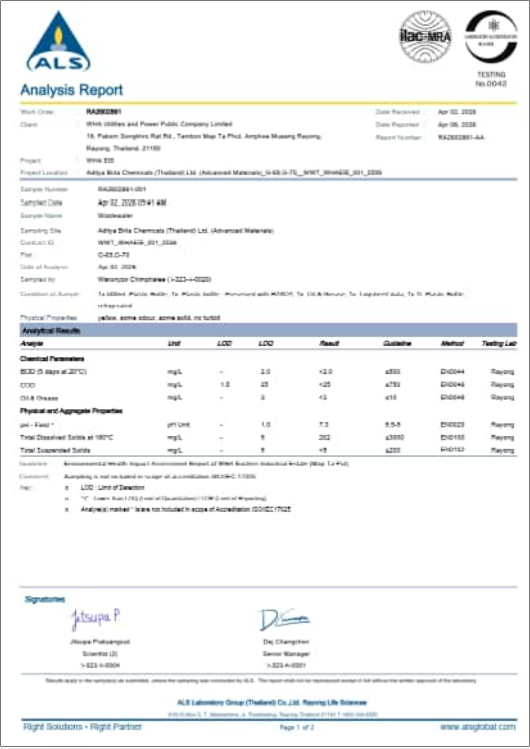

Analysis Report

Work Order: RA2602861 | Date Received: Apr 02, 2026
Client: WHA Utilities and Power Public Company Limited | Date Reported: Apr 08, 2026
18, Pakorn Songkhro Rat Rd., Tambon Map Ta Phut, Amphoe Mueang Rayong, Rayong, Thailand, 21150 | Report Number: RA2602861-AA
Project: WHA EIE
Project Location: Aditya Birla Chemicals (Thailand) Ltd. (Advanced Materials)_G-65,G-70__WWT_WHAEIE_001_2566

Sample Number: RA2602861-001
Sampled Date: Apr 02, 2026 09:41 AM
Sample Name: Wastewater
Sampling Site: Aditya Birla Chemicals (Thailand) Ltd. (Advanced Materials)
Contact ID: WWT_WHAEIE_001_2566
Plot: G-65,G-70
Date of Analysis: Apr 02, 2026
Sampled by: Waranyoo Chimphalee (1-223-+-0020)
Condition of Sample: [illegible]
Physical Properties: yellow, some odour, some solid, no 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	Rayong
COD	mg/L	1.5	25	<25	≤750	EN0046	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	EN0048	Rayong
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.3	5.5-9	EN0023	Rayong
Total Dissolved Solids at 180°C	mg/L	-	5	202	≤3000	EN0100	Rayong
Total Suspended Solids	mg/L	-	5	<5	≤200	EN0102	Rayong

Guideline: Environmental Health Impact Assessment Report of WHA Eastern Industrial Estate (Map Ta Phut)
Comment: Sampling is not included in scope of accreditation ISO/IEC 17025
Key:
- LOD : Limit of Detection
- [illegible]
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025

Signatories
Jitsupa P
Jitsupa [illegible] | Dej Changchan
Scientist (2) | Senior Manager

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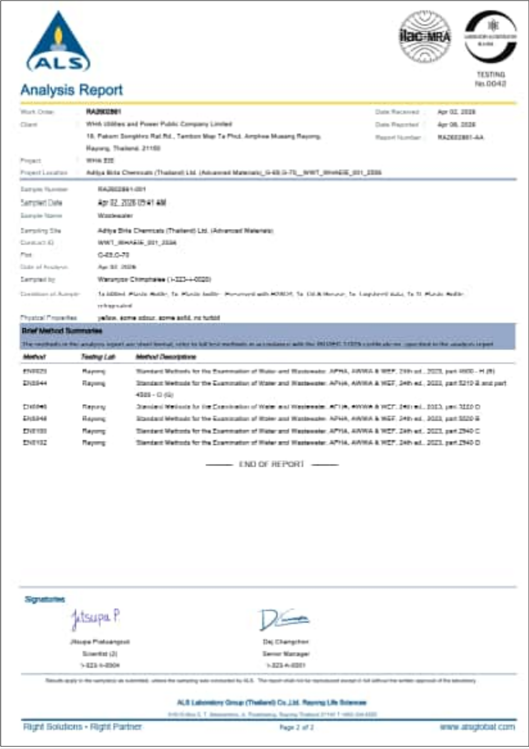

Analysis Report

Work Order: RA2602861 | Date Received: Apr 02, 2026
Client: WHA Utilities and Power Public Company Limited | Date Reported: Apr 08, 2026
18, Pakorn Songkhro Rat Rd., Tambon Map Ta Phut, Amphoe Mueang Rayong, Rayong, Thailand, 21150 | Report Number: RA2602861-AA
Project: WHA EIE
Project Location: Aditya Birla Chemicals (Thailand) Ltd. (Advanced Materials)_G-65,G-70__WWT_WHAEIE_001_2566

Sample Number: RA2602861-001
Sampled Date: Apr 02, 2026 09:41 AM
Sample Name: Wastewater
Sampling Site: Aditya Birla Chemicals (Thailand) Ltd. (Advanced Materials)
Contact ID: WWT_WHAEIE_001_2566
Plot: G-65,G-70
Date of Analysis: Apr 02, 2026
Sampled by: Waranyoo Chimphalee (1-223-+-0020)
Condition of Sample: [illegible]
Physical Properties: yellow, some odour, some solid, no turbid

Brief Method Summaries

[illegible]

Method	Testing Lab	Method Descriptions
EN0023	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0100	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C
EN0102	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

——— END OF REPORT ———

Signatories
Jitsupa P
Jitsupa [illegible] | Dej Changchan
Scientist (2) | Senior Manager

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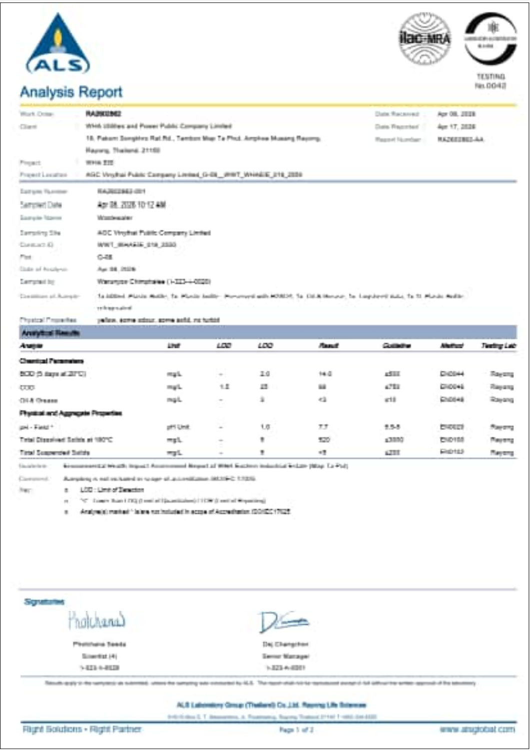

Analysis Report

Work Order: RA2602862 | Date Received: Apr 08, 2026
Client: WHA Utilities and Power Public Company Limited | Date Reported: Apr 17, 2026
18, Pakorn Songkhro Rat Rd., Tambon Map Ta Phut, Amphoe Mueang Rayong, Rayong, Thailand, 21150 | Report Number: RA2602862-AA
Project: WHA EIE
Project Location: AGC Vinythai Public Company Limited_G-08__WWT_WHAEIE_018_2566

Sample Number: RA2602862-001
Sampled Date: Apr 08, 2026 10:12 AM
Sample Name: Wastewater
Sampling Site: AGC Vinythai Public Company Limited
Contact ID: WWT_WHAEIE_018_2566
Plot: G-08
Date of Analysis: Apr 08, 2026
Sampled by: Waranyoo Chimphalee (1-223-+-0020)
Condition of Sample: [illegible]
Physical Properties: yellow, some odour, some solid, no turbid

Analytical Results

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	14.0	≤500	EN0044	Rayong
COD	mg/L	1.5	25	88	≤750	EN0046	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	EN0048	Rayong
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.7	5.5-9	EN0023	Rayong
Total Dissolved Solids at 180°C	mg/L	-	5	520	≤3000	EN0100	Rayong
Total Suspended Solids	mg/L	-	5	<5	≤200	EN0102	Rayong

Guideline: Environmental Health Impact Assessment Report of WHA Eastern Industrial Estate (Map Ta Phut)
Comment: Sampling is not included in scope of accreditation ISO/IEC 17025
Key:
- LOD : Limit of Detection
- [illegible]
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025

Signatories
Phatchana
Phatchana [illegible] | Dej Changchan
Scientist (4) | Senior Manager

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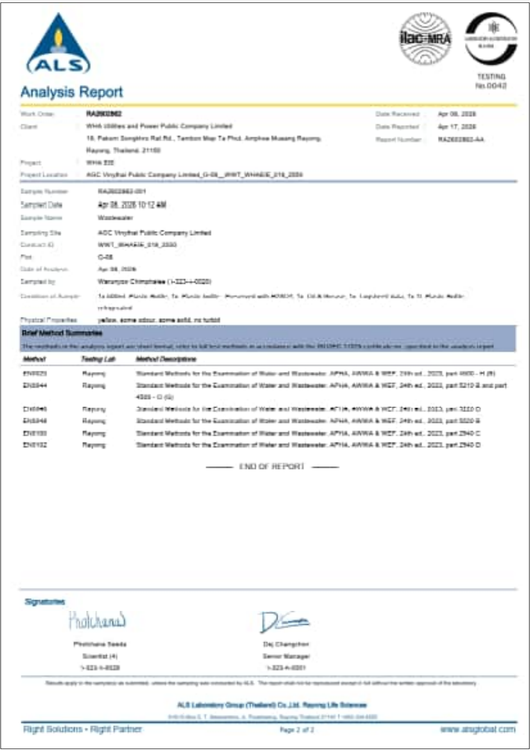

Analysis Report

Work Order: RA2602862 | Date Received: Apr 08, 2026
Client: WHA Utilities and Power Public Company Limited | Date Reported: Apr 17, 2026
18, Pakorn Songkhro Rat Rd., Tambon Map Ta Phut, Amphoe Mueang Rayong, Rayong, Thailand, 21150 | Report Number: RA2602862-AA
Project: WHA EIE
Project Location: AGC Vinythai Public Company Limited_G-08__WWT_WHAEIE_018_2566

Sample Number: RA2602862-001
Sampled Date: Apr 08, 2026 10:12 AM
Sample Name: Wastewater
Sampling Site: AGC Vinythai Public Company Limited
Contact ID: WWT_WHAEIE_018_2566
Plot: G-08
Date of Analysis: Apr 08, 2026
Sampled by: Waranyoo Chimphalee (1-223-+-0020)
Condition of Sample: [illegible]
Physical Properties: yellow, some odour, some solid, no turbid

Brief Method Summaries

[illegible]

Method	Testing Lab	Method Descriptions
EN0023	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0100	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C
EN0102	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

——— END OF REPORT ———

Signatories
Phatchana
Phatchana [illegible] | Dej Changchan
Scientist (4) | Senior Manager

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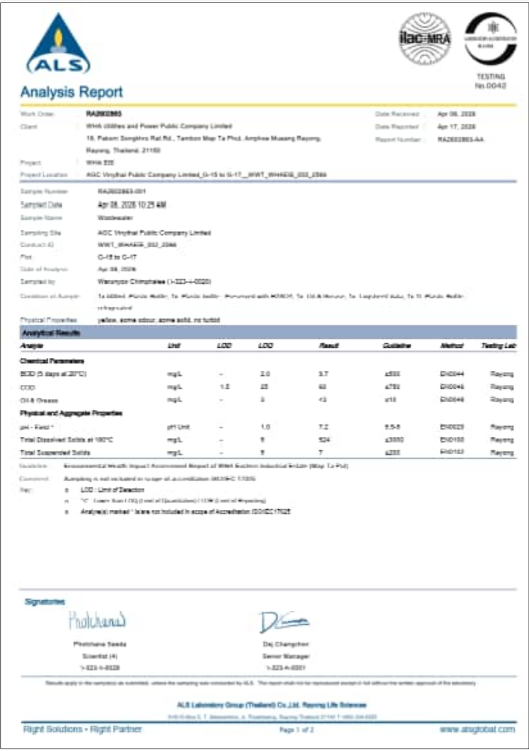

Analysis Report

Work Order: RA2602863 | Date Received: Apr 08, 2026
Client: WHA Utilities and Power Public Company Limited | Date Reported: Apr 17, 2026
18, Pakorn Songkhro Rat Rd., Tambon Map Ta Phut, Amphoe Mueang Rayong, Rayong, Thailand, 21150 | Report Number: RA2602863-AA
Project: WHA EIE
Project Location: AGC Vinythai Public Company Limited_G-15 to G-17__WWT_WHAEIE_002_2566

Sample Number: RA2602863-001
Sampled Date: Apr 08, 2026 10:25 AM
Sample Name: Wastewater
Sampling Site: AGC Vinythai Public Company Limited
Contact ID: WWT_WHAEIE_002_2566
Plot: G-15 to G-17
Date of Analysis: Apr 08, 2026
Sampled by: Waranyoo Chimphalee (1-223-+-0020)
Condition of Sample: [illegible]
Physical Properties: yellow, some odour, some solid, no turbid

Analytical Results

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	3.7	≤500	EN0044	Rayong
COD	mg/L	1.5	25	62	≤750	EN0046	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	EN0048	Rayong
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.2	5.5-9	EN0023	Rayong
Total Dissolved Solids at 180°C	mg/L	-	5	524	≤3000	EN0100	Rayong
Total Suspended Solids	mg/L	-	5	7	≤200	EN0102	Rayong

Guideline: Environmental Health Impact Assessment Report of WHA Eastern Industrial Estate (Map Ta Phut)
Comment: Sampling is not included in scope of accreditation ISO/IEC 17025
Key:
- LOD : Limit of Detection
- [illegible]
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025

Signatories
Phatchana
Phatchana [illegible] | Dej Changchan
Scientist (4) | Senior Manager

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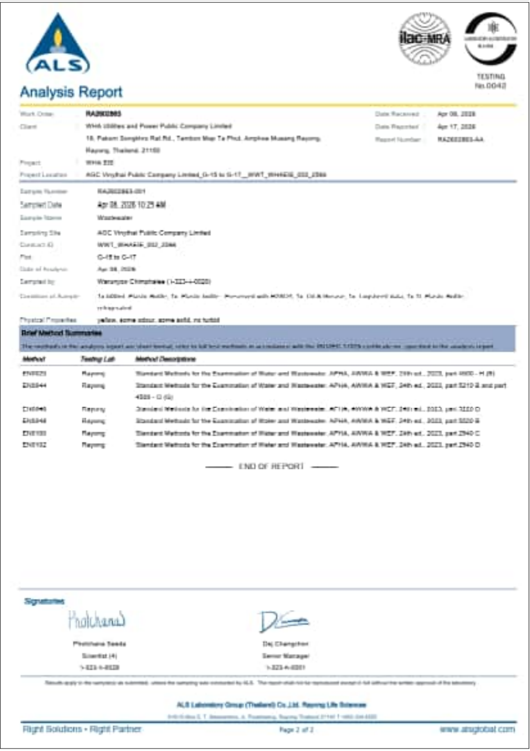

Analysis Report

Work Order: RA2602863 | Date Received: Apr 08, 2026
Client: WHA Utilities and Power Public Company Limited | Date Reported: Apr 17, 2026
18, Pakorn Songkhro Rat Rd., Tambon Map Ta Phut, Amphoe Mueang Rayong, Rayong, Thailand, 21150 | Report Number: RA2602863-AA
Project: WHA EIE
Project Location: AGC Vinythai Public Company Limited_G-15 to G-17__WWT_WHAEIE_002_2566

Sample Number: RA2602863-001
Sampled Date: Apr 08, 2026 10:25 AM
Sample Name: Wastewater
Sampling Site: AGC Vinythai Public Company Limited
Contact ID: WWT_WHAEIE_002_2566
Plot: G-15 to G-17
Date of Analysis: Apr 08, 2026
Sampled by: Waranyoo Chimphalee (1-223-+-0020)
Condition of Sample: [illegible]
Physical Properties: yellow, some odour, some solid, no turbid

Brief Method Summaries

[illegible]

Method	Testing Lab	Method Descriptions
EN0023	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0100	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C
EN0102	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

——— END OF REPORT ———

Signatories
Phatchana
Phatchana [illegible] | Dej Changchan
Scientist (4) | Senior Manager

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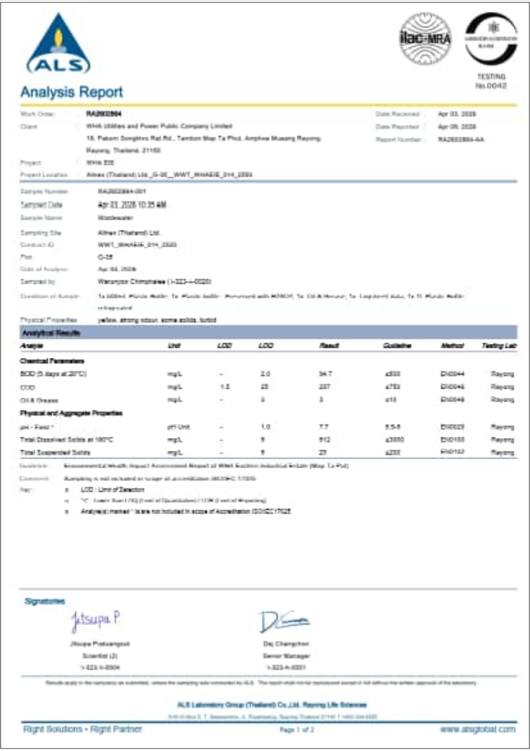

Analysis Report

Work Order: RA2602864 | Date Received: Apr 03, 2026
Client: WHA Utilities and Power Public Company Limited | Date Reported: Apr 09, 2026
18, Pakorn Songkhro Rat Rd., Tambon Map Ta Phut, Amphoe Mueang Rayong, Rayong, Thailand, 21150 | Report Number: RA2602864-AA
Project: WHA EIE
Project Location: Altrex (Thailand) Ltd._G-35__WWT_WHAEIE_014_2566

Sample Number: RA2602864-001
Sampled Date: Apr 03, 2026 10:35 AM
Sample Name: Wastewater
Sampling Site: Altrex (Thailand) Ltd.
Contact ID: WWT_WHAEIE_014_2566
Plot: G-35
Date of Analysis: Apr 03, 2026
Sampled by: Waranyoo Chimphalee (1-223-+-0020)
Condition of Sample: [illegible]
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	34.7	≤500	EN0044	Rayong
COD	mg/L	1.5	25	237	≤750	EN0046	Rayong
Oil & Grease	mg/L	-	3	3	≤10	EN0048	Rayong
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.7	5.5-9	EN0023	Rayong
Total Dissolved Solids at 180°C	mg/L	-	5	512	≤3000	EN0100	Rayong
Total Suspended Solids	mg/L	-	5	23	≤200	EN0102	Rayong

Guideline: Environmental Health Impact Assessment Report of WHA Eastern Industrial Estate (Map Ta Phut)
Comment: Sampling is not included in scope of accreditation ISO/IEC 17025
Key:
- LOD : Limit of Detection
- [illegible]
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025

Signatories
Jitsupa P
Jitsupa [illegible] | Dej Changchan
Scientist (2) | Senior Manager

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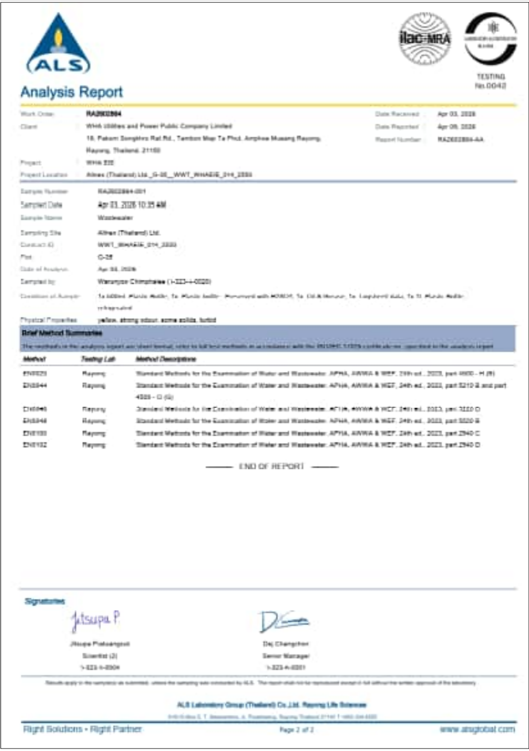

Analysis Report

Work Order: RA2602864 | Date Received: Apr 03, 2026
Client: WHA Utilities and Power Public Company Limited | Date Reported: Apr 09, 2026
18, Pakorn Songkhro Rat Rd., Tambon Map Ta Phut, Amphoe Mueang Rayong, Rayong, Thailand, 21150 | Report Number: RA2602864-AA
Project: WHA EIE
Project Location: Altrex (Thailand) Ltd._G-35__WWT_WHAEIE_014_2566

Sample Number: RA2602864-001
Sampled Date: Apr 03, 2026 10:35 AM
Sample Name: Wastewater
Sampling Site: Altrex (Thailand) Ltd.
Contact ID: WWT_WHAEIE_014_2566
Plot: G-35
Date of Analysis: Apr 03, 2026
Sampled by: Waranyoo Chimphalee (1-223-+-0020)
Condition of Sample: [illegible]
Physical Properties: yellow, strong odour, some solids, turbid

Brief Method Summaries

[illegible]

Method	Testing Lab	Method Descriptions
EN0023	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0100	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C
EN0102	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

——— END OF REPORT ———

Signatories
Jitsupa P
Jitsupa [illegible] | Dej Changchan
Scientist (2) | Senior Manager

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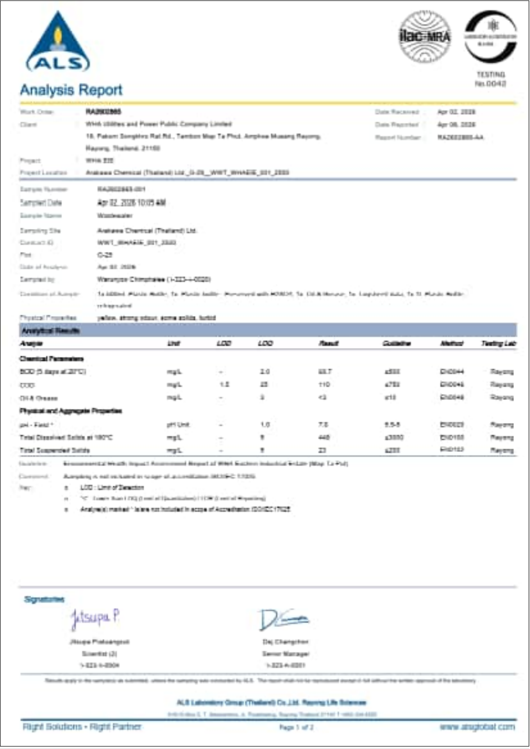

Analysis Report

TESTING No.0042

Work Order : RA2602865
Client : WHA Utilities and Power Public Company Limited
18, Pakorn Songkhro Rat Rd., Tambon Map Ta Phut, Amphoe Mueang Rayong,
Rayong, Thailand, 21150
Project : WHA EIE
Project Location : Arakawa Chemical (Thailand) Ltd._G-25__WWT_WHAEIE_001_2553

Date Received : Apr 02, 2026
Date Reported : Apr 08, 2026
Report Number : RA2602865-AA

Sample Number : RA2602865-001
Sampled Date : Apr 02, 2026 10:05 AM
Sample Name : Wastewater
Sampling Site : Arakawa Chemical (Thailand) Ltd.
Contract ID : WWT_WHAEIE_001_2553
Plot : G-25
Date of Analysis : Apr 02, 2026
Sampled by : Waranyoo Chimphalee (1-323-4-0020)
Condition of Sample : [illegible]
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	55.7	≤500	EN0044	Rayong
COD	mg/L	1.5	25	110	≤750	EN0046	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	EN0048	Rayong
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.8	5.5-9	EN0023	Rayong
Total Dissolved Solids at 180°C	mg/L	-	5	448	≤3000	EN0100	Rayong
Total Suspended Solids	mg/L	-	5	23	≤200	EN0102	Rayong

Guideline : Environmental Health Impact Assessment Report of WHA Eastern Industrial Estate (Map Ta Phut)
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

Jitsupa P.
Jitsupa Piatsangool
Scientist (2)
1-323-4-0304

Dej Changchon
Senior Manager
1-323-4-0001

[illegible]

ALS Laboratory Group (Thailand) Co.,Ltd. Rayong Life Sciences
[illegible]

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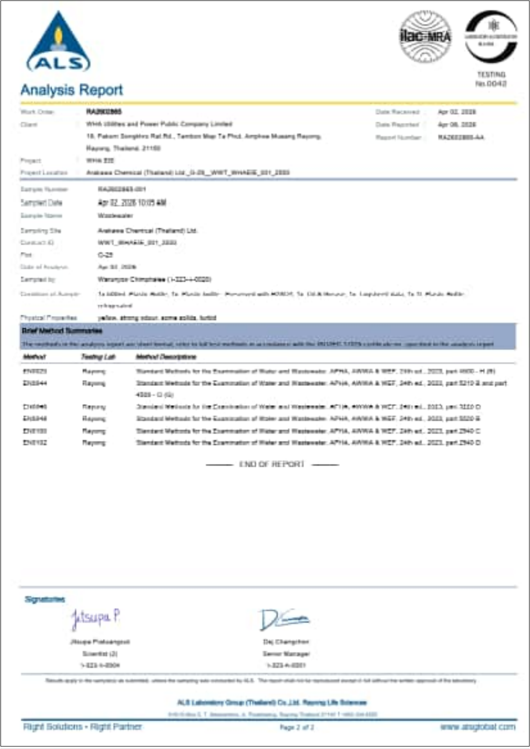

Analysis Report

TESTING No.0042

Work Order : RA2602865
Client : WHA Utilities and Power Public Company Limited
18, Pakorn Songkhro Rat Rd., Tambon Map Ta Phut, Amphoe Mueang Rayong,
Rayong, Thailand, 21150
Project : WHA EIE
Project Location : Arakawa Chemical (Thailand) Ltd._G-25__WWT_WHAEIE_001_2553

Date Received : Apr 02, 2026
Date Reported : Apr 08, 2026
Report Number : RA2602865-AA

Sample Number : RA2602865-001
Sampled Date : Apr 02, 2026 10:05 AM
Sample Name : Wastewater
Sampling Site : Arakawa Chemical (Thailand) Ltd.
Contract ID : WWT_WHAEIE_001_2553
Plot : G-25
Date of Analysis : Apr 02, 2026
Sampled by : Waranyoo Chimphalee (1-323-4-0020)
Condition of Sample : [illegible]
Physical Properties : yellow, strong odour, some solids, turbid

Brief Method Summaries

[illegible]

Method	Testing Lab	Method Descriptions
EN0023	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0100	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C
EN0102	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

——— END OF REPORT ———

Signatories

Jitsupa P.
Jitsupa Piatsangool
Scientist (2)
1-323-4-0304

Dej Changchon
Senior Manager
1-323-4-0001

[illegible]

ALS Laboratory Group (Thailand) Co.,Ltd. Rayong Life Sciences
[illegible]

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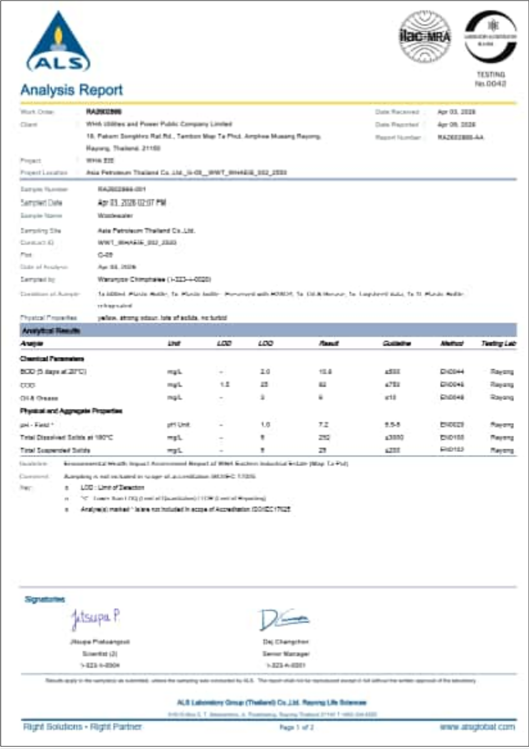

Analysis Report

TESTING No.0042

Work Order : RA2602866
Client : WHA Utilities and Power Public Company Limited
18, Pakorn Songkhro Rat Rd., Tambon Map Ta Phut, Amphoe Mueang Rayong,
Rayong, Thailand, 21150
Project : WHA EIE
Project Location : Asia Petroleum Thailand Co.,Ltd._G-05__WWT_WHAEIE_002_2553

Date Received : Apr 03, 2026
Date Reported : Apr 08, 2026
Report Number : RA2602866-AA

Sample Number : RA2602866-001
Sampled Date : Apr 03, 2026 02:07 PM
Sample Name : Wastewater
Sampling Site : Asia Petroleum Thailand Co.,Ltd.
Contract ID : WWT_WHAEIE_002_2553
Plot : G-05
Date of Analysis : Apr 03, 2026
Sampled by : Waranyoo Chimphalee (1-323-4-0020)
Condition of Sample : [illegible]
Physical Properties : yellow, strong odour, lots of solids, no turbid

Analytical Results

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	10.6	≤500	EN0044	Rayong
COD	mg/L	1.5	25	82	≤750	EN0046	Rayong
Oil & Grease	mg/L	-	3	6	≤10	EN0048	Rayong
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.2	5.5-9	EN0023	Rayong
Total Dissolved Solids at 180°C	mg/L	-	5	252	≤3000	EN0100	Rayong
Total Suspended Solids	mg/L	-	5	25	≤200	EN0102	Rayong

Guideline : Environmental Health Impact Assessment Report of WHA Eastern Industrial Estate (Map Ta Phut)
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

Jitsupa P.
Jitsupa Piatsangool
Scientist (2)
1-323-4-0304

Dej Changchon
Senior Manager
1-323-4-0001

[illegible]

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[illegible]

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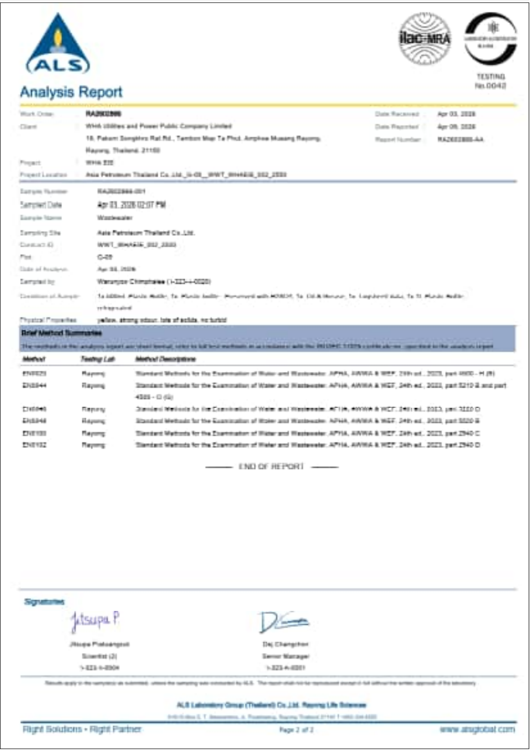

Analysis Report

TESTING No.0042

Work Order : RA2602866
Client : WHA Utilities and Power Public Company Limited
18, Pakorn Songkhro Rat Rd., Tambon Map Ta Phut, Amphoe Mueang Rayong,
Rayong, Thailand, 21150
Project : WHA EIE
Project Location : Asia Petroleum Thailand Co.,Ltd._G-05__WWT_WHAEIE_002_2553

Date Received : Apr 03, 2026
Date Reported : Apr 08, 2026
Report Number : RA2602866-AA

Sample Number : RA2602866-001
Sampled Date : Apr 03, 2026 02:07 PM
Sample Name : Wastewater
Sampling Site : Asia Petroleum Thailand Co.,Ltd.
Contract ID : WWT_WHAEIE_002_2553
Plot : G-05
Date of Analysis : Apr 03, 2026
Sampled by : Waranyoo Chimphalee (1-323-4-0020)
Condition of Sample : [illegible]
Physical Properties : yellow, strong odour, lots of solids, no turbid

Brief Method Summaries

[illegible]

Method	Testing Lab	Method Descriptions
EN0023	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0100	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C
EN0102	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

——— END OF REPORT ———

Signatories

Jitsupa P.
Jitsupa Piatsangool
Scientist (2)
1-323-4-0304

Dej Changchon
Senior Manager
1-323-4-0001

[illegible]

ALS Laboratory Group (Thailand) Co.,Ltd. Rayong Life Sciences
[illegible]

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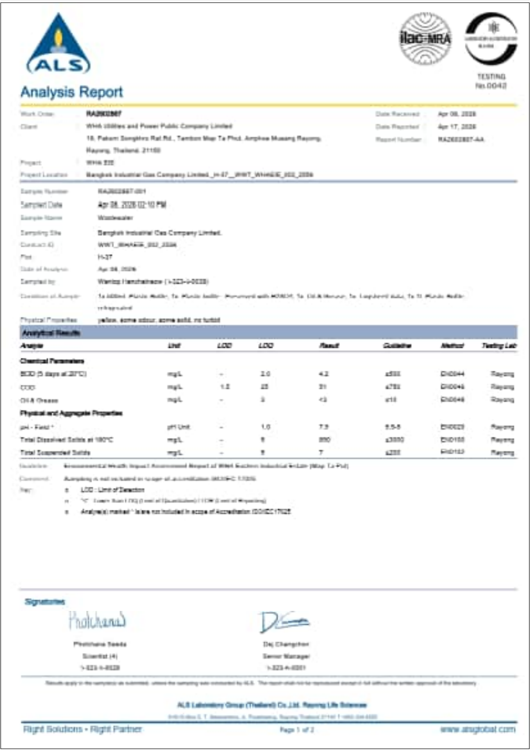

Analysis Report

TESTING No.0042

Work Order : RA2602867
Client : WHA Utilities and Power Public Company Limited
18, Pakorn Songkhro Rat Rd., Tambon Map Ta Phut, Amphoe Mueang Rayong,
Rayong, Thailand, 21150
Project : WHA EIE
Project Location : Bangkok Industrial Gas Company Limited_H-37__WWT_WHAEIE_002_2556

Date Received : Apr 08, 2026
Date Reported : Apr 17, 2026
Report Number : RA2602867-AA

Sample Number : RA2602867-001
Sampled Date : Apr 08, 2026 02:10 PM
Sample Name : Wastewater
Sampling Site : Bangkok Industrial Gas Company Limited.
Contract ID : WWT_WHAEIE_002_2556
Plot : H-37
Date of Analysis : Apr 08, 2026
Sampled by : Wanitsa Hanchainaow (1-323-4-0038)
Condition of Sample : [illegible]
Physical Properties : yellow, some odour, some solid, no turbid

Analytical Results

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	4.2	≤500	EN0044	Rayong
COD	mg/L	1.5	25	31	≤750	EN0046	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	EN0048	Rayong
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.3	5.5-9	EN0023	Rayong
Total Dissolved Solids at 180°C	mg/L	-	5	850	≤3000	EN0100	Rayong
Total Suspended Solids	mg/L	-	5	7	≤200	EN0102	Rayong

Guideline : Environmental Health Impact Assessment Report of WHA Eastern Industrial Estate (Map Ta Phut)
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

Phatchana
Phatchana Seeda
Scientist (4)
1-323-4-0028

Dej Changchon
Senior Manager
1-323-4-0001

[illegible]

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[illegible]

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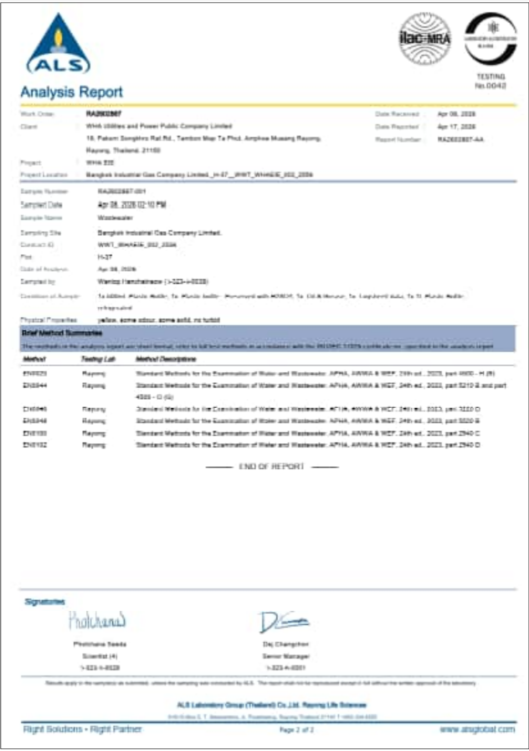

Analysis Report

TESTING No.0042

Work Order : RA2602867
Client : WHA Utilities and Power Public Company Limited
18, Pakorn Songkhro Rat Rd., Tambon Map Ta Phut, Amphoe Mueang Rayong,
Rayong, Thailand, 21150
Project : WHA EIE
Project Location : Bangkok Industrial Gas Company Limited_H-37__WWT_WHAEIE_002_2556

Date Received : Apr 08, 2026
Date Reported : Apr 17, 2026
Report Number : RA2602867-AA

Sample Number : RA2602867-001
Sampled Date : Apr 08, 2026 02:10 PM
Sample Name : Wastewater
Sampling Site : Bangkok Industrial Gas Company Limited.
Contract ID : WWT_WHAEIE_002_2556
Plot : H-37
Date of Analysis : Apr 08, 2026
Sampled by : Wanitsa Hanchainaow (1-323-4-0038)
Condition of Sample : [illegible]
Physical Properties : yellow, some odour, some solid, no turbid

Brief Method Summaries

[illegible]

Method	Testing Lab	Method Descriptions
EN0023	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0100	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C
EN0102	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

——— END OF REPORT ———

Signatories

Phatchana
Phatchana Seeda
Scientist (4)
1-323-4-0028

Dej Changchon
Senior Manager
1-323-4-0001

[illegible]

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[illegible]

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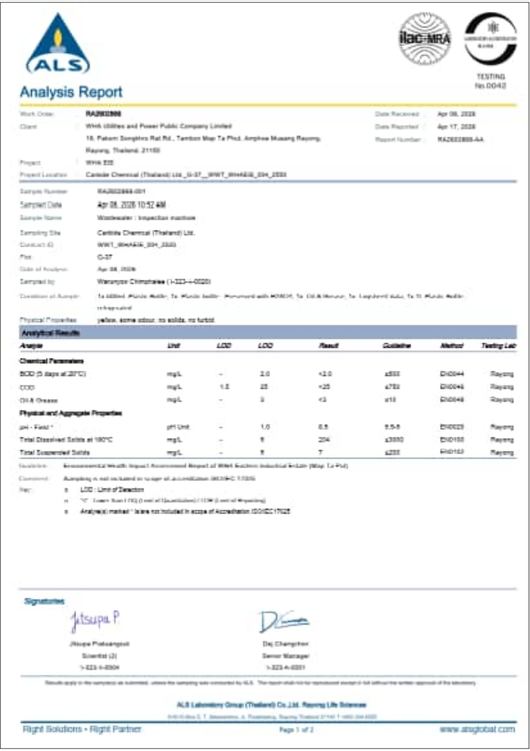

Analysis Report

TESTING No.0042

Work Order : RA2602868
Client : WHA Utilities and Power Public Company Limited
18, Pakorn Songkhro Rat Rd., Tambon Map Ta Phut, Amphoe Mueang Rayong,
Rayong, Thailand, 21150
Project : WHA EIE
Project Location : Carbide Chemical (Thailand) Ltd._G-37__WWT_WHAEIE_004_2553

Date Received : Apr 08, 2026
Date Reported : Apr 17, 2026
Report Number : RA2602868-AA

Sample Number : RA2602868-001
Sampled Date : Apr 08, 2026 10:52 AM
Sample Name : Wastewater : Inspection machine
Sampling Site : Carbide Chemical (Thailand) Ltd.
Contract ID : WWT_WHAEIE_004_2553
Plot : G-37
Date of Analysis : Apr 08, 2026
Sampled by : Waranyoo Chimphalee (1-323-4-0020)
Condition of Sample : [illegible]
Physical Properties : yellow, some odour, no solids, no 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	Rayong
COD	mg/L	1.5	25	<25	≤750	EN0046	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	EN0048	Rayong
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	6.5	5.5-9	EN0023	Rayong
Total Dissolved Solids at 180°C	mg/L	-	5	204	≤3000	EN0100	Rayong
Total Suspended Solids	mg/L	-	5	7	≤200	EN0102	Rayong

Guideline : Environmental Health Impact Assessment Report of WHA Eastern Industrial Estate (Map Ta Phut)
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

Jitsupa P.
Jitsupa Piatsangool
Scientist (2)
1-323-4-0304

Dej Changchon
Senior Manager
1-323-4-0001

[illegible]

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[illegible]

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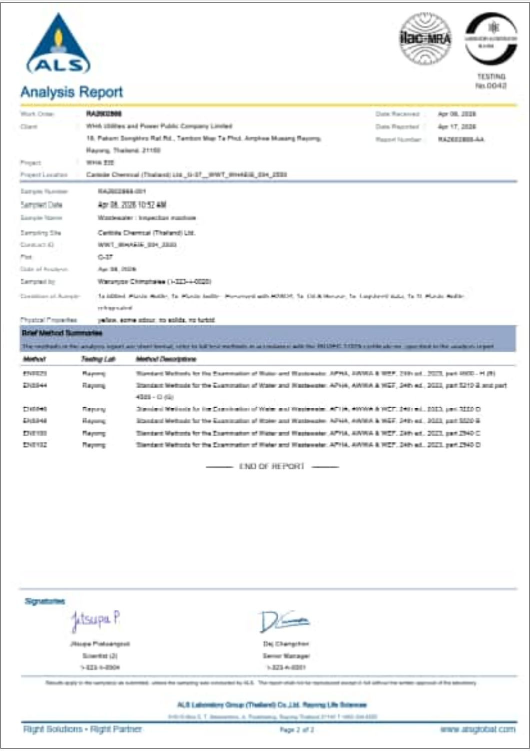

Analysis Report

TESTING No.0042

Work Order : RA2602868
Client : WHA Utilities and Power Public Company Limited
18, Pakorn Songkhro Rat Rd., Tambon Map Ta Phut, Amphoe Mueang Rayong,
Rayong, Thailand, 21150
Project : WHA EIE
Project Location : Carbide Chemical (Thailand) Ltd._G-37__WWT_WHAEIE_004_2553

Date Received : Apr 08, 2026
Date Reported : Apr 17, 2026
Report Number : RA2602868-AA

Sample Number : RA2602868-001
Sampled Date : Apr 08, 2026 10:52 AM
Sample Name : Wastewater : Inspection machine
Sampling Site : Carbide Chemical (Thailand) Ltd.
Contract ID : WWT_WHAEIE_004_2553
Plot : G-37
Date of Analysis : Apr 08, 2026
Sampled by : Waranyoo Chimphalee (1-323-4-0020)
Condition of Sample : [illegible]
Physical Properties : yellow, some odour, no solids, no turbid

Brief Method Summaries

[illegible]

Method	Testing Lab	Method Descriptions
EN0023	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0100	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C
EN0102	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

——— END OF REPORT ———

Signatories

Jitsupa P.
Jitsupa Piatsangool
Scientist (2)
1-323-4-0304

Dej Changchon
Senior Manager
1-323-4-0001

[illegible]

ALS Laboratory Group (Thailand) Co.,Ltd. Rayong Life Sciences
[illegible]

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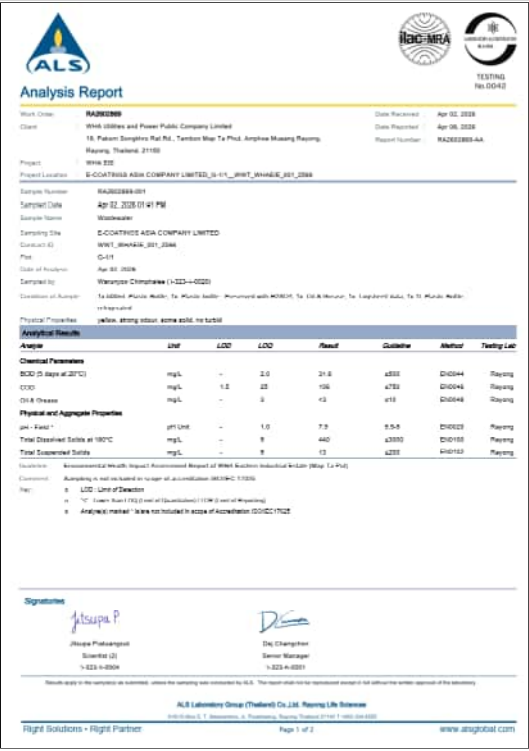

Analysis Report

TESTING No.0042

Work Order : RA2602869
Client : WHA Utilities and Power Public Company Limited
18, Pakorn Songkhro Rat Rd., Tambon Map Ta Phut, Amphoe Mueang Rayong,
Rayong, Thailand, 21150
Project : WHA EIE
Project Location : E-COATINGS ASIA COMPANY LIMITED_G-1/1__WWT_WHAEIE_001_2566

Date Received : Apr 02, 2026
Date Reported : Apr 08, 2026
Report Number : RA2602869-AA

Sample Number : RA2602869-001
Sampled Date : Apr 02, 2026 01:41 PM
Sample Name : Wastewater
Sampling Site : E-COATINGS ASIA COMPANY LIMITED
Contract ID : WWT_WHAEIE_001_2566
Plot : G-1/1
Date of Analysis : Apr 02, 2026
Sampled by : Waranyoo Chimphalee (1-323-4-0020)
Condition of Sample : [illegible]
Physical Properties : yellow, strong odour, some solid, no turbid

Analytical Results

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	21.6	≤500	EN0044	Rayong
COD	mg/L	1.5	25	106	≤750	EN0046	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	EN0048	Rayong
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.3	5.5-9	EN0023	Rayong
Total Dissolved Solids at 180°C	mg/L	-	5	440	≤3000	EN0100	Rayong
Total Suspended Solids	mg/L	-	5	13	≤200	EN0102	Rayong

Guideline : Environmental Health Impact Assessment Report of WHA Eastern Industrial Estate (Map Ta Phut)
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

Jitsupa P.
Jitsupa Piatsangool
Scientist (2)
1-323-4-0304

Dej Changchon
Senior Manager
1-323-4-0001

[illegible]

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[illegible]

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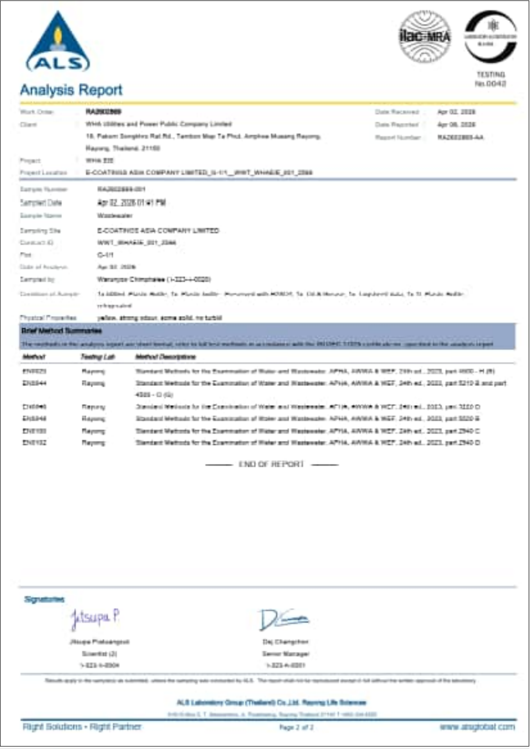

Analysis Report

TESTING No.0042

Work Order: RA2602869
Client: WHA Utilities and Power Public Company Limited
Date Received: Apr 02, 2026
Report Number: RA2602869-AA
Project: WHA EIE
Sample Number: RA2602869-001
Sampled Date: Apr 02, 2026 01:41 PM
Sample Name: Wastewater
Sampling Site: E-COATINGS ASIA COMPANY LIMITED
Plot: G-1/1
Sampled by: Waranyoo Chimphalee
Physical Properties: yellow, strong odour, some solid, no turbid

Brief Method Summaries

Method	Testing Lab	Method Descriptions
EN0023	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0100	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C
EN0102	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

—— END OF REPORT ——

Signatories

Jitsupa P.

Scientist (2)

Senior Manager

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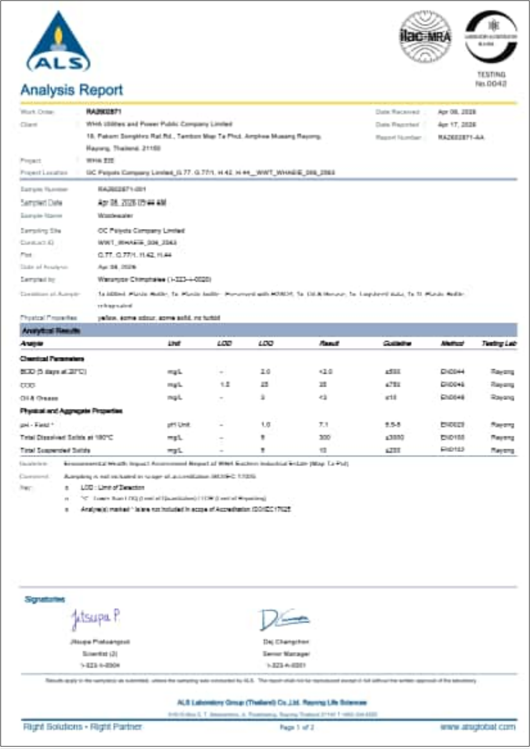

Analysis Report

TESTING No.0042

Work Order: RA2602871
Client: WHA Utilities and Power Public Company Limited
Date Received: Apr 08, 2026
Date Reported: Apr 17, 2026
Report Number: RA2602871-AA
Project: WHA EIE
Sample Number: RA2602871-001
Sampled Date: Apr 08, 2026 09:44 AM
Sample Name: Wastewater
Sampling Site: GC Polyols Company Limited
Plot: G.77, G.77/1, H.42, H.44
Sampled by: Waranyoo Chimphalee
Physical Properties: yellow, some odour, some solid, no 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	Rayong
COD	mg/L	1.5	25	35	≤750	EN0046	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	EN0048	Rayong
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.1	5.5-9	EN0023	Rayong
Total Dissolved Solids at 180°C	mg/L	-	5	300	≤3000	EN0100	Rayong
Total Suspended Solids	mg/L	-	5	10	≤200	EN0102	Rayong

Key:
- LOD : Limit of Detection
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC17025

Signatories

Jitsupa P.

Scientist (2)

Senior Manager

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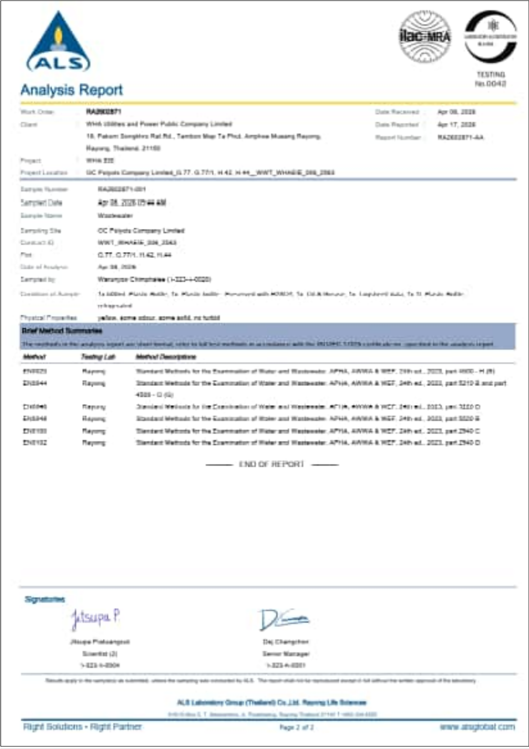

Analysis Report

TESTING No.0042

Work Order: RA2602871
Client: WHA Utilities and Power Public Company Limited
Date Received: Apr 08, 2026
Date Reported: Apr 17, 2026
Report Number: RA2602871-AA
Project: WHA EIE
Sample Number: RA2602871-001
Sampled Date: Apr 08, 2026 09:44 AM
Sample Name: Wastewater
Sampling Site: GC Polyols Company Limited
Plot: G.77, G.77/1, H.42, H.44
Sampled by: Waranyoo Chimphalee
Physical Properties: yellow, some odour, some solid, no turbid

Brief Method Summaries

Method	Testing Lab	Method Descriptions
EN0023	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0100	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C
EN0102	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

—— END OF REPORT ——

Signatories

Jitsupa P.

Scientist (2)

Senior Manager

ALS Laboratory Group (Thailand) Co.,Ltd. Rayong Life Sciences

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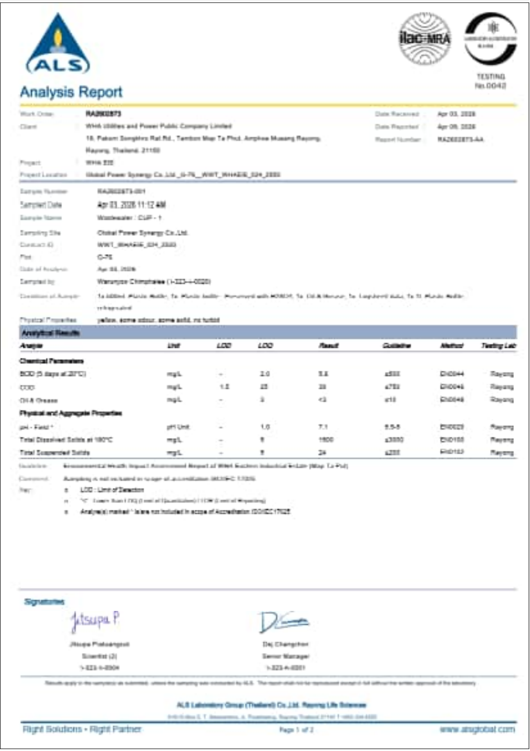

Analysis Report

TESTING No.0042

Work Order: RA2602873
Client: WHA Utilities and Power Public Company Limited
Date Received: Apr 03, 2026
Date Reported: Apr 09, 2026
Report Number: RA2602873-AA
Project: WHA EIE
Sample Number: RA2602873-001
Sampled Date: Apr 03, 2026 11:12 AM
Sample Name: Wastewater : CUP - 1
Sampling Site: Global Power Synergy Co.,Ltd.
Plot: G-76
Sampled by: Waranyoo Chimphalee
Physical Properties: yellow, some odour, some solid, no turbid

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	Rayong
COD	mg/L	1.5	25	33	≤750	EN0046	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	EN0048	Rayong
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.1	5.5-9	EN0023	Rayong
Total Dissolved Solids at 180°C	mg/L	-	5	1500	≤3000	EN0100	Rayong
Total Suspended Solids	mg/L	-	5	24	≤200	EN0102	Rayong

Key:
- LOD : Limit of Detection
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC17025

Signatories

Jitsupa P.

Scientist (2)

Senior Manager

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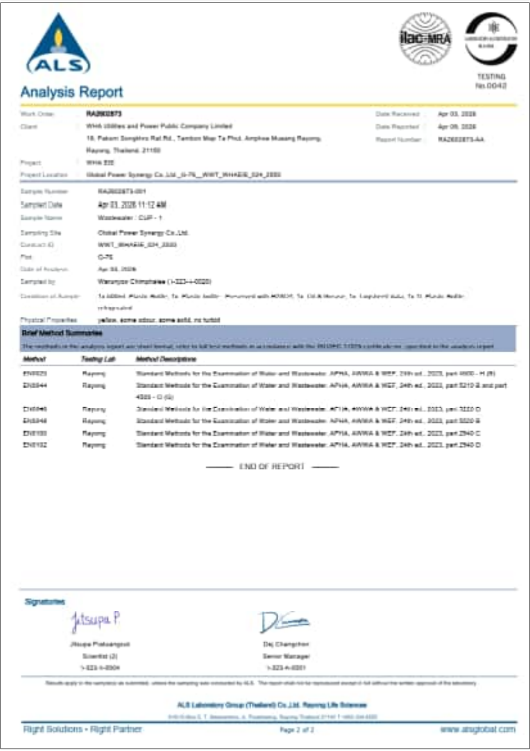

Analysis Report

TESTING No.0042

Work Order: RA2602873
Client: WHA Utilities and Power Public Company Limited
Date Received: Apr 03, 2026
Date Reported: Apr 09, 2026
Report Number: RA2602873-AA
Project: WHA EIE
Sample Number: RA2602873-001
Sampled Date: Apr 03, 2026 11:12 AM
Sample Name: Wastewater : CUP - 1
Sampling Site: Global Power Synergy Co.,Ltd.
Plot: G-76
Sampled by: Waranyoo Chimphalee
Physical Properties: yellow, some odour, some solid, no turbid

Brief Method Summaries

Method	Testing Lab	Method Descriptions
EN0023	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0100	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C
EN0102	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

—— END OF REPORT ——

Signatories

Jitsupa P.

Scientist (2)

Senior Manager

ALS Laboratory Group (Thailand) Co.,Ltd. Rayong Life Sciences

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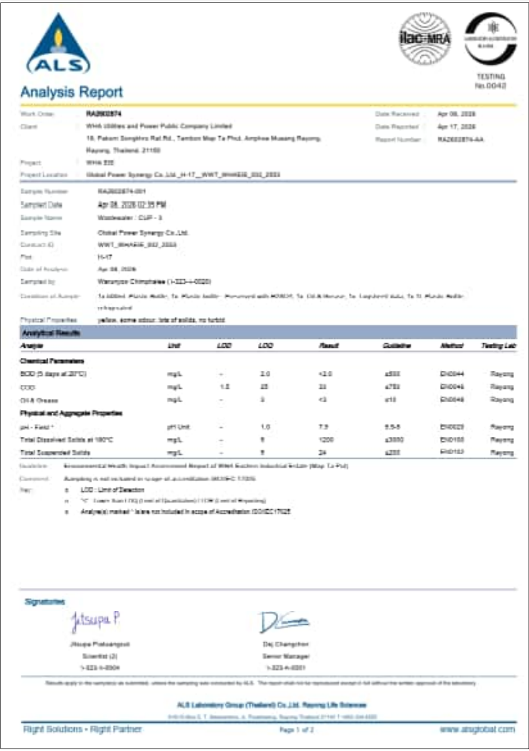

Analysis Report

TESTING No.0042

Work Order: RA2602874
Client: WHA Utilities and Power Public Company Limited
Date Received: Apr 08, 2026
Date Reported: Apr 17, 2026
Report Number: RA2602874-AA
Project: WHA EIE
Sample Number: RA2602874-001
Sampled Date: Apr 08, 2026 02:35 PM
Sample Name: Wastewater : CUP - 3
Sampling Site: Global Power Synergy Co.,Ltd.
Plot: H-17
Sampled by: Waranyoo Chimphalee
Physical Properties: yellow, some odour, lots of solids, no 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	Rayong
COD	mg/L	1.5	25	33	≤750	EN0046	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	EN0048	Rayong
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.9	5.5-9	EN0023	Rayong
Total Dissolved Solids at 180°C	mg/L	-	5	1200	≤3000	EN0100	Rayong
Total Suspended Solids	mg/L	-	5	24	≤200	EN0102	Rayong

Key:
- LOD : Limit of Detection
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC17025

Signatories

Jitsupa P.

Scientist (2)

Senior Manager

ALS Laboratory Group (Thailand) Co.,Ltd. Rayong Life Sciences

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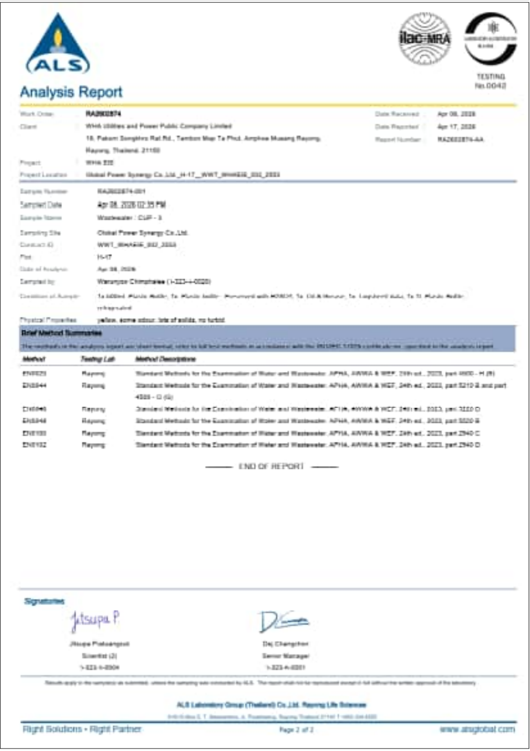

Analysis Report

TESTING No.0042

Work Order: RA2602874
Client: WHA Utilities and Power Public Company Limited
Date Received: Apr 08, 2026
Date Reported: Apr 17, 2026
Report Number: RA2602874-AA
Project: WHA EIE
Sample Number: RA2602874-001
Sampled Date: Apr 08, 2026 02:35 PM
Sample Name: Wastewater : CUP - 3
Sampling Site: Global Power Synergy Co.,Ltd.
Plot: H-17
Sampled by: Waranyoo Chimphalee
Physical Properties: yellow, some odour, lots of solids, no turbid

Brief Method Summaries

Method	Testing Lab	Method Descriptions
EN0023	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0100	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C
EN0102	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

—— END OF REPORT ——

Signatories

Jitsupa P.

Scientist (2)

Senior Manager

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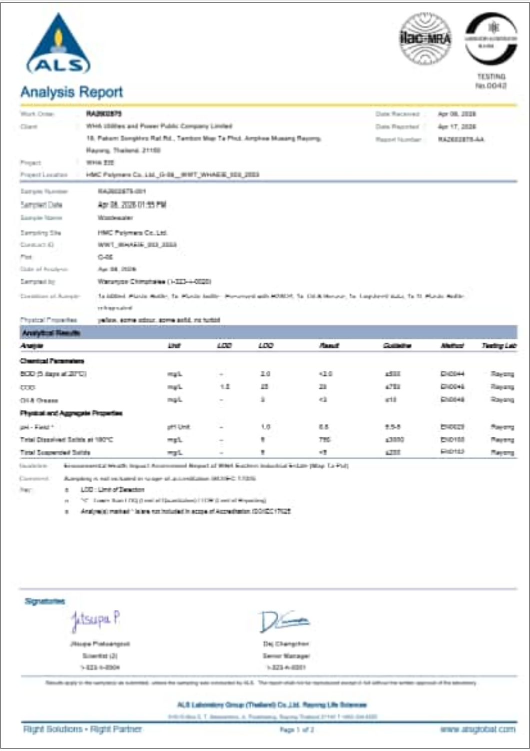

Analysis Report

TESTING No.0042

Work Order: RA2602875
Client: WHA Utilities and Power Public Company Limited
Date Received: Apr 08, 2026
Date Reported: Apr 17, 2026
Report Number: RA2602875-AA
Project: WHA EIE
Sample Number: RA2602875-001
Sampled Date: Apr 08, 2026 01:55 PM
Sample Name: Wastewater
Sampling Site: HMC Polymers Co.,Ltd.
Plot: G-08
Sampled by: Waranyoo Chimphalee
Physical Properties: yellow, some odour, some solid, no 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	Rayong
COD	mg/L	1.5	25	23	≤750	EN0046	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	EN0048	Rayong
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	6.8	5.5-9	EN0023	Rayong
Total Dissolved Solids at 180°C	mg/L	-	5	750	≤3000	EN0100	Rayong
Total Suspended Solids	mg/L	-	5	<5	≤200	EN0102	Rayong

Key:
- LOD : Limit of Detection
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC17025

Signatories

Jitsupa P.

Scientist (2)

Senior Manager

ALS Laboratory Group (Thailand) Co.,Ltd. Rayong Life Sciences

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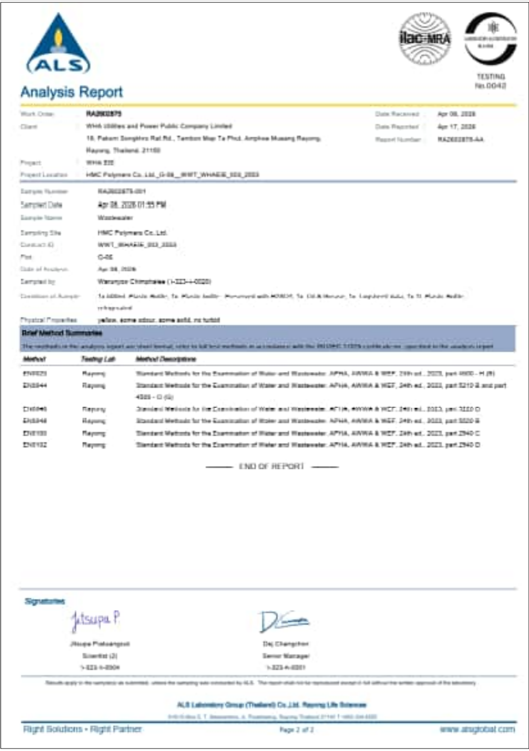

Analysis Report

TESTING No.0042

Work Order: RA2602875
Client: WHA Utilities and Power Public Company Limited
Date Received: Apr 08, 2026
Date Reported: Apr 17, 2026
Report Number: RA2602875-AA
Project: WHA EIE
Sample Number: RA2602875-001
Sampled Date: Apr 08, 2026 01:55 PM
Sample Name: Wastewater
Sampling Site: HMC Polymers Co.,Ltd.
Plot: G-08
Sampled by: Waranyoo Chimphalee
Physical Properties: yellow, some odour, some solid, no turbid

Brief Method Summaries

Method	Testing Lab	Method Descriptions
EN0023	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0100	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C
EN0102	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

—— END OF REPORT ——

Signatories

Jitsupa P.

Scientist (2)

Senior Manager

ALS Laboratory Group (Thailand) Co.,Ltd. Rayong Life Sciences

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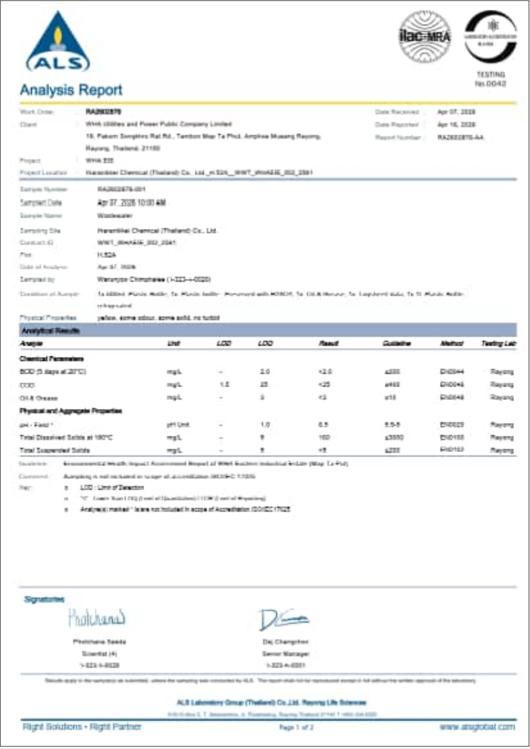
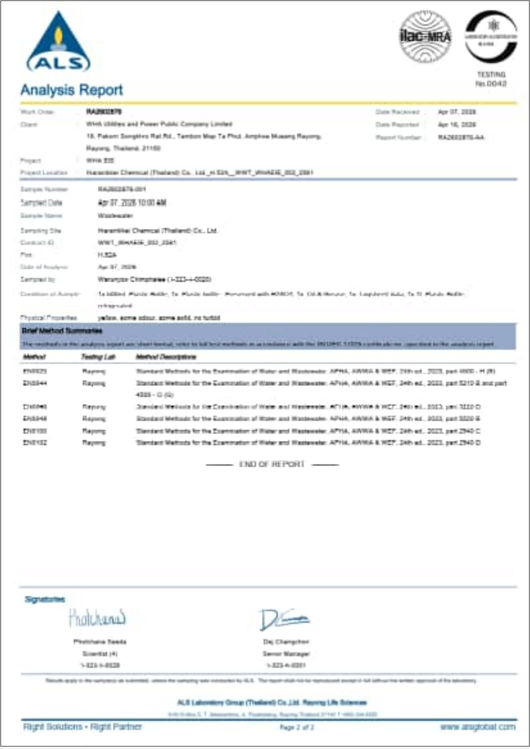
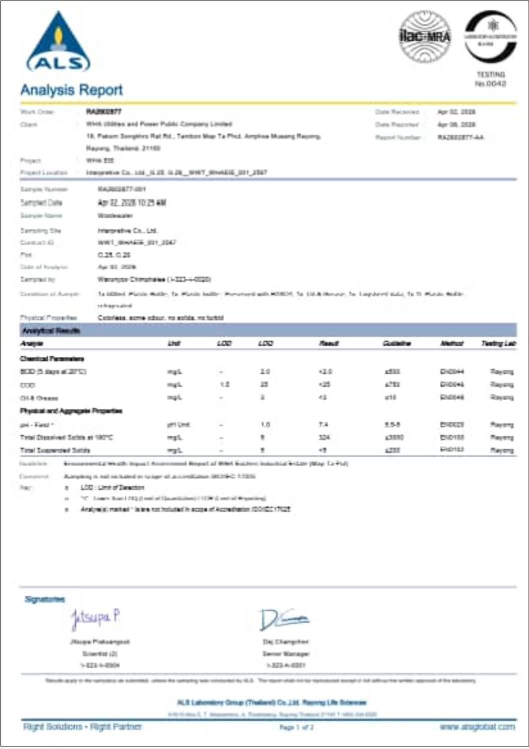


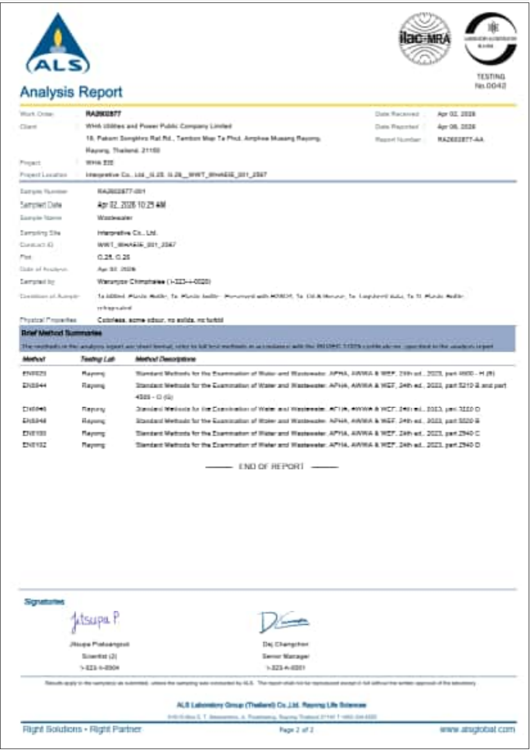
Analysis Report



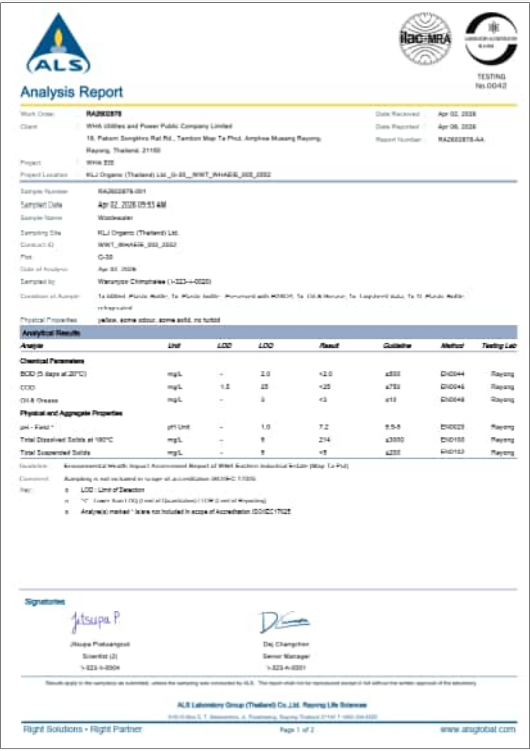
Analysis Report



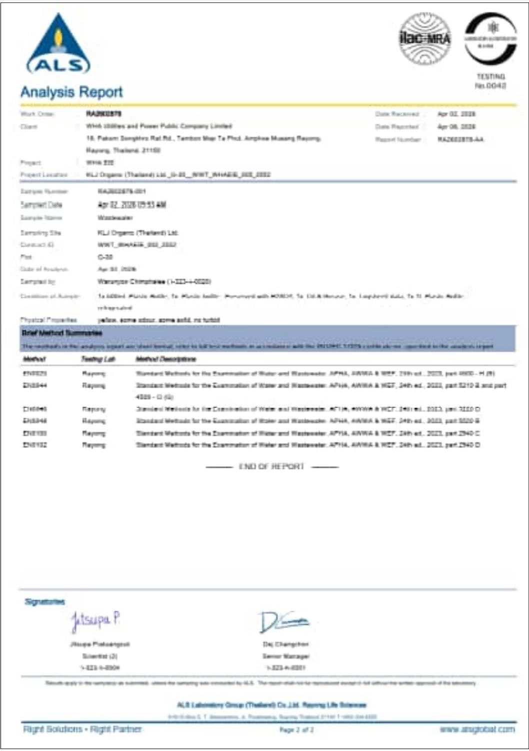
Analysis Report



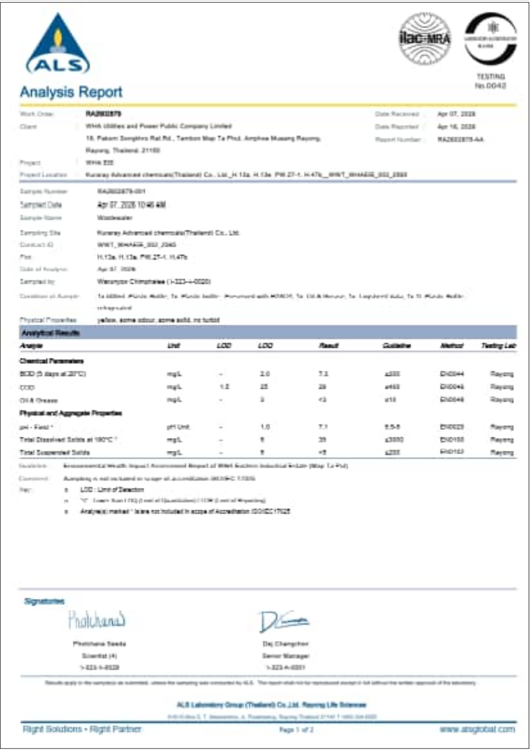
Analysis Report



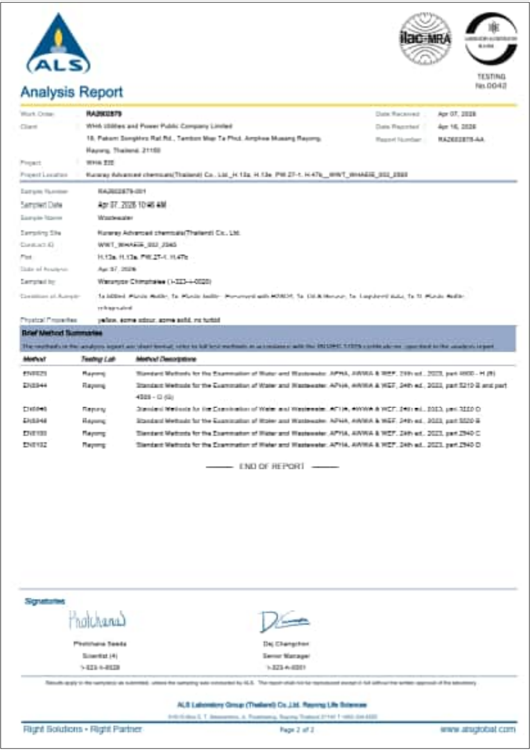
Analysis Report



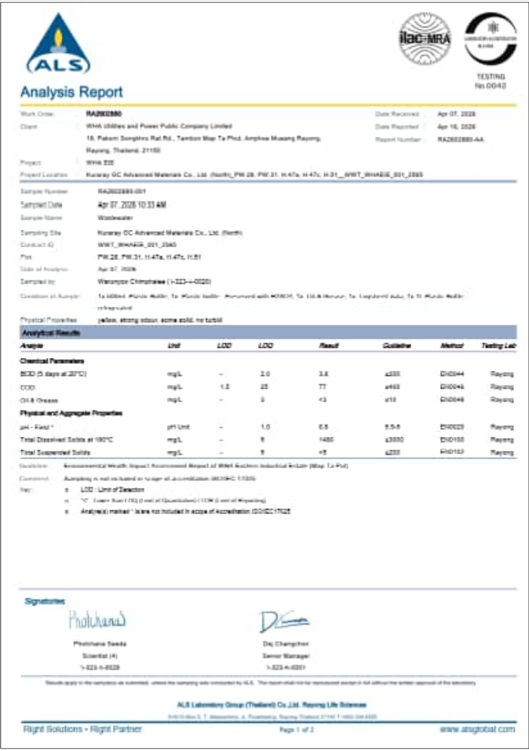
Analysis Report



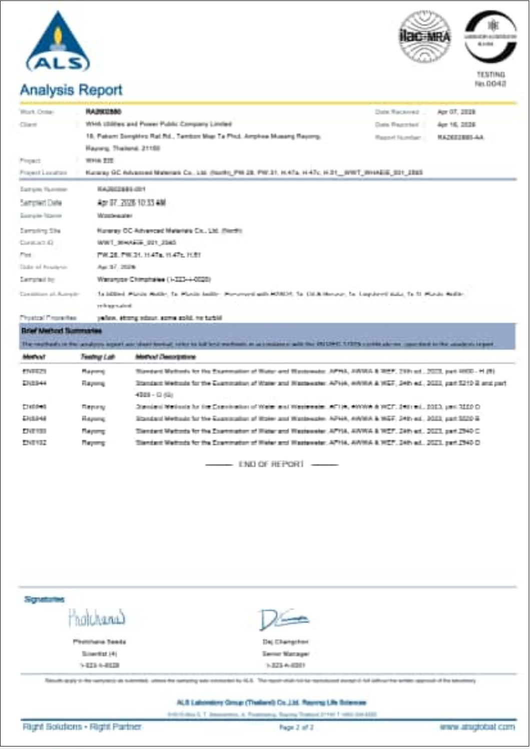
Analysis Report



Analysis Report



Analysis Report



Analysis Report

TESTING
No.0042

Work Order	RA2602880	Date Received	Apr 07, 2026
Client	WHA Utilities and Power Public Company Limited 18, Pakorn Songkhro Rat Rd., Tambon Map Ta Phut, Amphoe Mueang Rayong, Rayong, Thailand, 21150	Date Reported	Apr 16, 2026
		Report Number	RA2602880-AA
Project	WHA EIE		
Project Location	Kuraray GC Advanced Materials Co., Ltd. (North)_PW.28, PW.31, H.47a, H.47c, H.51__WWT_WHAEIE_001_2565		

Sample Number	RA2602880-001
Sampled Date	Apr 07, 2026 10:33 AM
Sample Name	Wastewater
Sampling Site	Kuraray GC Advanced Materials Co., Ltd. (North)
Contract ID	WWT_WHAEIE_001_2565
Plot	PW.28, PW.31, H.47a, H.47c, H.51
Date of Analysis	Apr 07, 2026
Sampled by	Waranyoo Chimphalee (I-023-I-0020)
Condition of Sample	[illegible]
Physical Properties	yellow, strong odour, some solid, no turbid

Brief Method Summaries

[illegible]

Method	Testing Lab	Method Descriptions
EN0023	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0100	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C
EN0102	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

—— END OF REPORT ——

Signatories

Photchana	
Photchana Seeda Scientist (4) I-023-I-0028	Dej Changchon Senior Manager I-023-A-0001

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.

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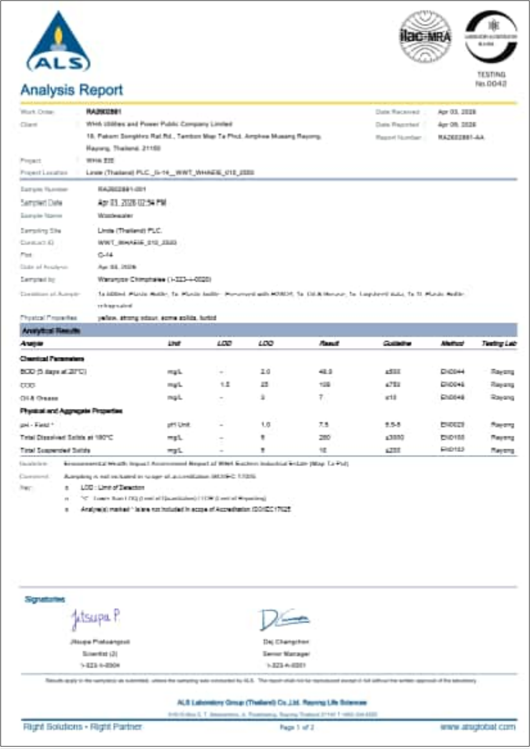

Analysis Report

TESTING
No.0042

Work Order	RA2602881	Date Received	Apr 03, 2026
Client	WHA Utilities and Power Public Company Limited 18, Pakorn Songkhro Rat Rd., Tambon Map Ta Phut, Amphoe Mueang Rayong, Rayong, Thailand, 21150	Date Reported	Apr 09, 2026
		Report Number	RA2602881-AA
Project	WHA EIE		
Project Location	Linde (Thailand) PLC._G-14__WWT_WHAEIE_010_2560		

Sample Number	RA2602881-001
Sampled Date	Apr 03, 2026 02:54 PM
Sample Name	Wastewater
Sampling Site	Linde (Thailand) PLC.
Contract ID	WWT_WHAEIE_010_2560
Plot	G-14
Date of Analysis	Apr 03, 2026
Sampled by	Waranyoo Chimphalee (I-023-I-0020)
Condition of Sample	[illegible]
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	48.0	≤500	EN0044	Rayong
COD	mg/L	1.5	25	108	≤750	EN0046	Rayong
Oil & Grease	mg/L	-	3	7	≤10	EN0048	Rayong
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.5	5.5-9	EN0023	Rayong
Total Dissolved Solids at 180°C	mg/L	-	5	280	≤3000	EN0100	Rayong
Total Suspended Solids	mg/L	-	5	10	≤200	EN0102	Rayong

Guideline: Environmental Health Impact Assessment Report of WHA Eastern Industrial Estate (Map Ta Phut)

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

Jitsupa P.	
Jitsupa [illegible] Scientist (3) I-023-I-0004	Dej Changchon Senior Manager I-023-A-0001

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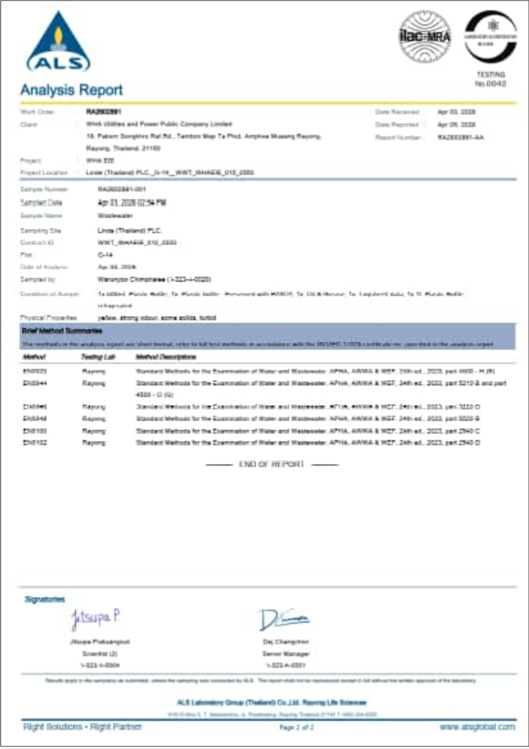

Analysis Report

TESTING
No.0042

Work Order	RA2602881	Date Received	Apr 03, 2026
Client	WHA Utilities and Power Public Company Limited 18, Pakorn Songkhro Rat Rd., Tambon Map Ta Phut, Amphoe Mueang Rayong, Rayong, Thailand, 21150	Date Reported	Apr 09, 2026
		Report Number	RA2602881-AA
Project	WHA EIE		
Project Location	Linde (Thailand) PLC._G-14__WWT_WHAEIE_010_2560		

Sample Number	RA2602881-001
Sampled Date	Apr 03, 2026 02:54 PM
Sample Name	Wastewater
Sampling Site	Linde (Thailand) PLC.
Contract ID	WWT_WHAEIE_010_2560
Plot	G-14
Date of Analysis	Apr 03, 2026
Sampled by	Waranyoo Chimphalee (I-023-I-0020)
Condition of Sample	[illegible]
Physical Properties	yellow, strong odour, some solids, turbid

Brief Method Summaries

[illegible]

Method	Testing Lab	Method Descriptions
EN0023	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0100	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C
EN0102	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

—— END OF REPORT ——

Signatories

Jitsupa P.	
Jitsupa [illegible] Scientist (3) I-023-I-0004	Dej Changchon Senior Manager I-023-A-0001

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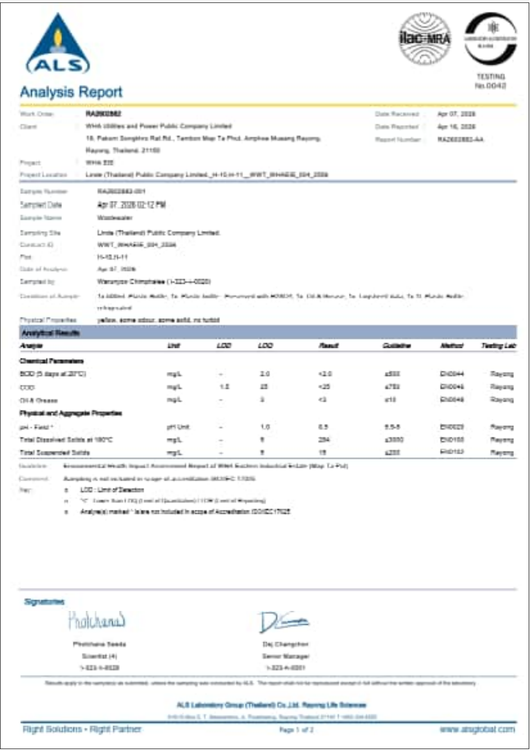

Analysis Report

TESTING
No.0042

Work Order	RA2602882	Date Received	Apr 07, 2026
Client	WHA Utilities and Power Public Company Limited 18, Pakorn Songkhro Rat Rd., Tambon Map Ta Phut, Amphoe Mueang Rayong, Rayong, Thailand, 21150	Date Reported	Apr 16, 2026
		Report Number	RA2602882-AA
Project	WHA EIE		
Project Location	Linde (Thailand) Public Company Limited._H-10,H-11__WWT_WHAEIE_004_2556		

Sample Number	RA2602882-001
Sampled Date	Apr 07, 2026 02:12 PM
Sample Name	Wastewater
Sampling Site	Linde (Thailand) Public Company Limited.
Contract ID	WWT_WHAEIE_004_2556
Plot	H-10,H-11
Date of Analysis	Apr 07, 2026
Sampled by	Waranyoo Chimphalee (I-023-I-0020)
Condition of Sample	[illegible]
Physical Properties	yellow, some odour, some solid, no 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	Rayong
COD	mg/L	1.5	25	<25	≤750	EN0046	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	EN0048	Rayong
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	8.5	5.5-9	EN0023	Rayong
Total Dissolved Solids at 180°C	mg/L	-	5	294	≤3000	EN0100	Rayong
Total Suspended Solids	mg/L	-	5	18	≤200	EN0102	Rayong

Guideline: Environmental Health Impact Assessment Report of WHA Eastern Industrial Estate (Map Ta Phut)

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

Photchana	
Photchana Seeda Scientist (4) I-023-I-0028	Dej Changchon Senior Manager I-023-A-0001

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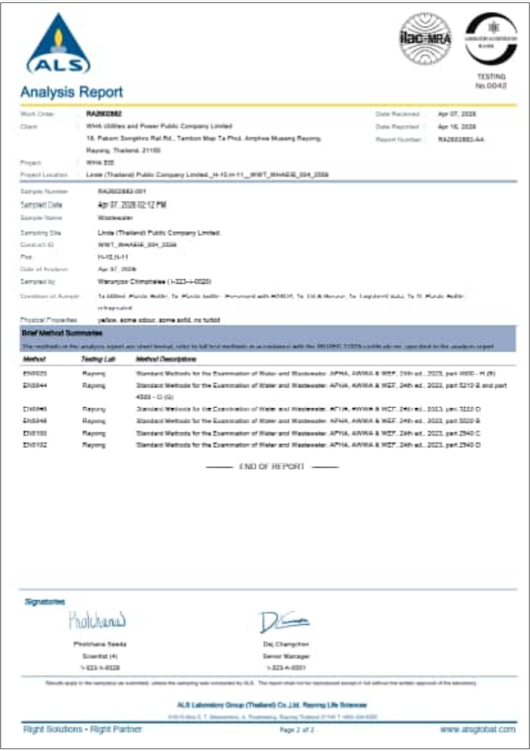

Analysis Report

TESTING
No.0042

Work Order	RA2602882	Date Received	Apr 07, 2026
Client	WHA Utilities and Power Public Company Limited 18, Pakorn Songkhro Rat Rd., Tambon Map Ta Phut, Amphoe Mueang Rayong, Rayong, Thailand, 21150	Date Reported	Apr 16, 2026
		Report Number	RA2602882-AA
Project	WHA EIE		
Project Location	Linde (Thailand) Public Company Limited._H-10,H-11__WWT_WHAEIE_004_2556		

Sample Number	RA2602882-001
Sampled Date	Apr 07, 2026 02:12 PM
Sample Name	Wastewater
Sampling Site	Linde (Thailand) Public Company Limited.
Contract ID	WWT_WHAEIE_004_2556
Plot	H-10,H-11
Date of Analysis	Apr 07, 2026
Sampled by	Waranyoo Chimphalee (I-023-I-0020)
Condition of Sample	[illegible]
Physical Properties	yellow, some odour, some solid, no turbid

Brief Method Summaries

[illegible]

Method	Testing Lab	Method Descriptions
EN0023	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0100	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C
EN0102	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

—— END OF REPORT ——

Signatories

Photchana	
Photchana Seeda Scientist (4) I-023-I-0028	Dej Changchon Senior Manager I-023-A-0001

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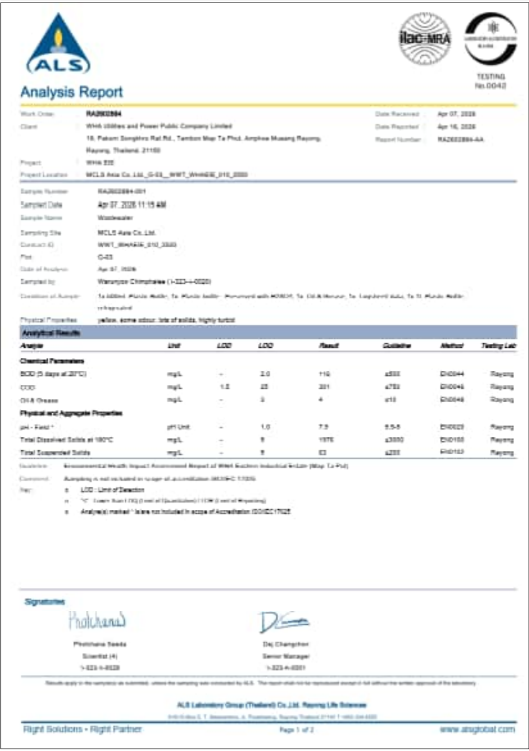

Analysis Report

TESTING
No.0042

Work Order	RA2602884	Date Received	Apr 07, 2026
Client	WHA Utilities and Power Public Company Limited 18, Pakorn Songkhro Rat Rd., Tambon Map Ta Phut, Amphoe Mueang Rayong, Rayong, Thailand, 21150	Date Reported	Apr 16, 2026
		Report Number	RA2602884-AA
Project	WHA EIE		
Project Location	MCLS Asia Co.,Ltd._G-03__WWT_WHAEIE_010_2560		

Sample Number	RA2602884-001
Sampled Date	Apr 07, 2026 11:15 AM
Sample Name	Wastewater
Sampling Site	MCLS Asia Co.,Ltd.
Contract ID	WWT_WHAEIE_010_2560
Plot	G-03
Date of Analysis	Apr 07, 2026
Sampled by	Waranyoo Chimphalee (I-023-I-0020)
Condition of Sample	[illegible]
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	110	≤500	EN0044	Rayong
COD	mg/L	1.5	25	201	≤750	EN0046	Rayong
Oil & Grease	mg/L	-	3	4	≤10	EN0048	Rayong
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.9	5.5-9	EN0023	Rayong
Total Dissolved Solids at 180°C	mg/L	-	5	1976	≤3000	EN0100	Rayong
Total Suspended Solids	mg/L	-	5	63	≤200	EN0102	Rayong

Guideline: Environmental Health Impact Assessment Report of WHA Eastern Industrial Estate (Map Ta Phut)

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

Photchana	
Photchana Seeda Scientist (4) I-023-I-0028	Dej Changchon Senior Manager I-023-A-0001

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ALS Laboratory Group (Thailand) Co.,Ltd. Rayong Life Sciences

[illegible]

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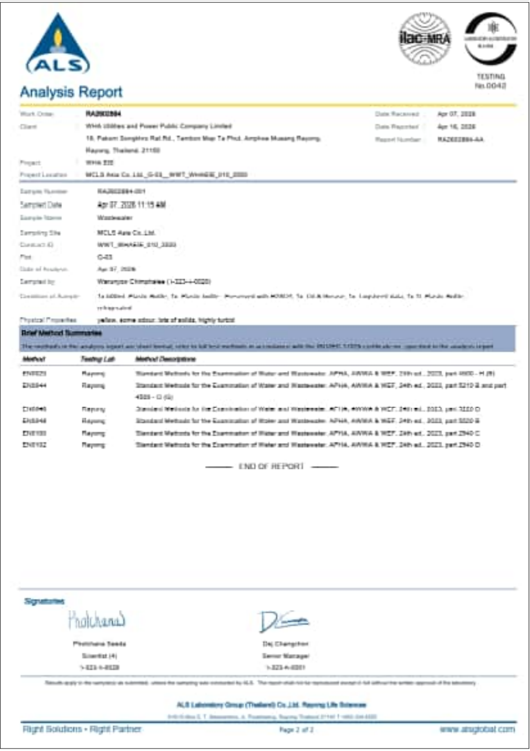

Analysis Report

TESTING
No.0042

Work Order	RA2602884	Date Received	Apr 07, 2026
Client	WHA Utilities and Power Public Company Limited 18, Pakorn Songkhro Rat Rd., Tambon Map Ta Phut, Amphoe Mueang Rayong, Rayong, Thailand, 21150	Date Reported	Apr 16, 2026
		Report Number	RA2602884-AA
Project	WHA EIE		
Project Location	MCLS Asia Co.,Ltd._G-03__WWT_WHAEIE_010_2560		

Sample Number	RA2602884-001
Sampled Date	Apr 07, 2026 11:15 AM
Sample Name	Wastewater
Sampling Site	MCLS Asia Co.,Ltd.
Contract ID	WWT_WHAEIE_010_2560
Plot	G-03
Date of Analysis	Apr 07, 2026
Sampled by	Waranyoo Chimphalee (I-023-I-0020)
Condition of Sample	[illegible]
Physical Properties	yellow, some odour, lots of solids, highly turbid

Brief Method Summaries

[illegible]

Method	Testing Lab	Method Descriptions
EN0023	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0100	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C
EN0102	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

—— END OF REPORT ——

Signatories

Photchana	
Photchana Seeda Scientist (4) I-023-I-0028	Dej Changchon Senior Manager I-023-A-0001

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. Rayong Life Sciences

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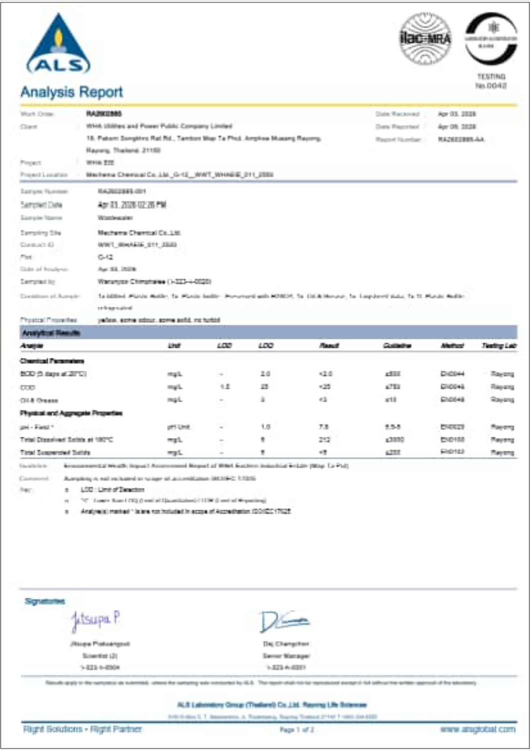

Analysis Report

TESTING
No.0042

Work Order	RA2602885	Date Received	Apr 03, 2026
Client	WHA Utilities and Power Public Company Limited 18, Pakorn Songkhro Rat Rd., Tambon Map Ta Phut, Amphoe Mueang Rayong, Rayong, Thailand, 21150	Date Reported	Apr 09, 2026
		Report Number	RA2602885-AA
Project	WHA EIE		
Project Location	Mechema Chemical Co.,Ltd._G-12__WWT_WHAEIE_011_2560		

Sample Number	RA2602885-001
Sampled Date	Apr 03, 2026 02:26 PM
Sample Name	Wastewater
Sampling Site	Mechema Chemical Co.,Ltd.
Contract ID	WWT_WHAEIE_011_2560
Plot	G-12
Date of Analysis	Apr 03, 2026
Sampled by	Waranyoo Chimphalee (I-023-I-0020)
Condition of Sample	[illegible]
Physical Properties	yellow, some odour, some solid, no 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	Rayong
COD	mg/L	1.5	25	<25	≤750	EN0046	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	EN0048	Rayong
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.8	5.5-9	EN0023	Rayong
Total Dissolved Solids at 180°C	mg/L	-	5	212	≤3000	EN0100	Rayong
Total Suspended Solids	mg/L	-	5	<5	≤200	EN0102	Rayong

Guideline: Environmental Health Impact Assessment Report of WHA Eastern Industrial Estate (Map Ta Phut)

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

Jitsupa P.	
Jitsupa [illegible] Scientist (3) I-023-I-0004	Dej Changchon Senior Manager I-023-A-0001

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.

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[illegible]

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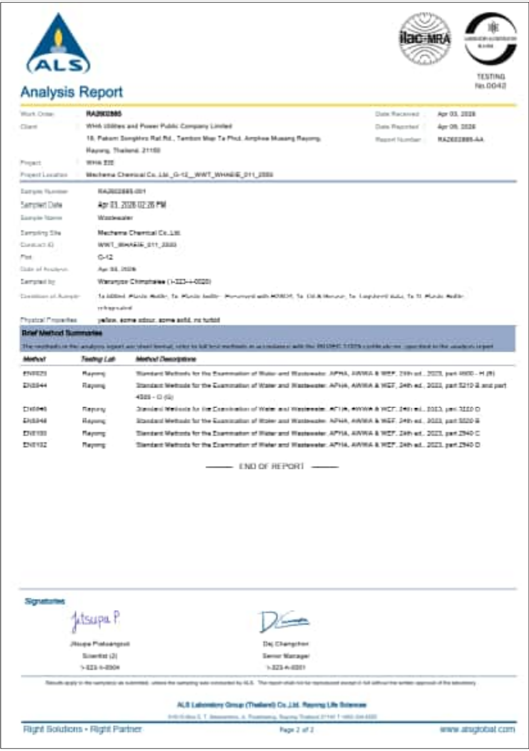

Analysis Report

TESTING
No.0042

Work Order	RA2602885	Date Received	Apr 03, 2026
Client	WHA Utilities and Power Public Company Limited 18, Pakorn Songkhro Rat Rd., Tambon Map Ta Phut, Amphoe Mueang Rayong, Rayong, Thailand, 21150	Date Reported	Apr 09, 2026
		Report Number	RA2602885-AA
Project	WHA EIE		
Project Location	Mechema Chemical Co.,Ltd._G-12__WWT_WHAEIE_011_2560		

Sample Number	RA2602885-001
Sampled Date	Apr 03, 2026 02:26 PM
Sample Name	Wastewater
Sampling Site	Mechema Chemical Co.,Ltd.
Contract ID	WWT_WHAEIE_011_2560
Plot	G-12
Date of Analysis	Apr 03, 2026
Sampled by	Waranyoo Chimphalee (I-023-I-0020)
Condition of Sample	[illegible]
Physical Properties	yellow, some odour, some solid, no turbid

Brief Method Summaries

[illegible]

Method	Testing Lab	Method Descriptions
EN0023	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0100	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C
EN0102	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

—— END OF REPORT ——

Signatories

Jitsupa P.	
Jitsupa [illegible] Scientist (3) I-023-I-0004	Dej Changchon Senior Manager I-023-A-0001

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.

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[illegible]

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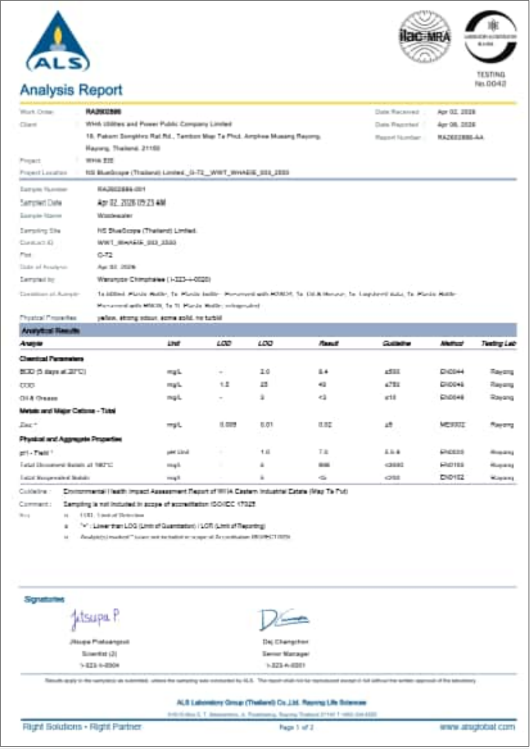
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Sampled Date Apr 02, 2026 09:23 AM

Analytical Results

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Analysis Report

TESTING No.0042

Sampled Date Apr 02, 2026 09:23 AM

Brief Method Summaries

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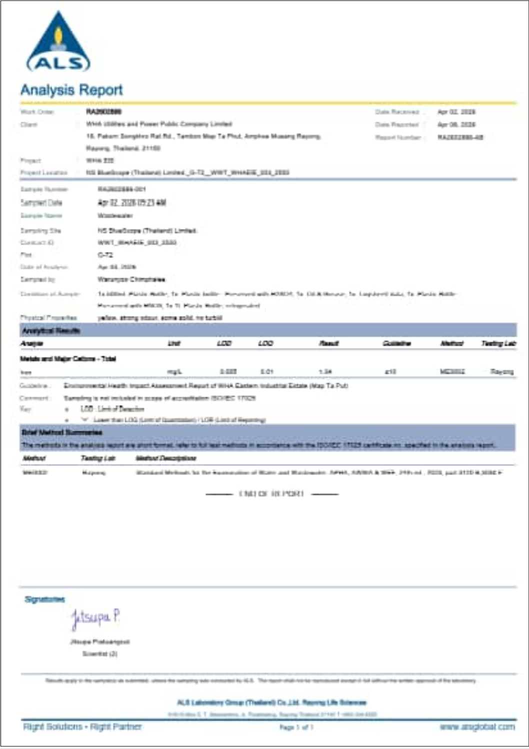
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Sampled Date Apr 02, 2026 09:23 AM

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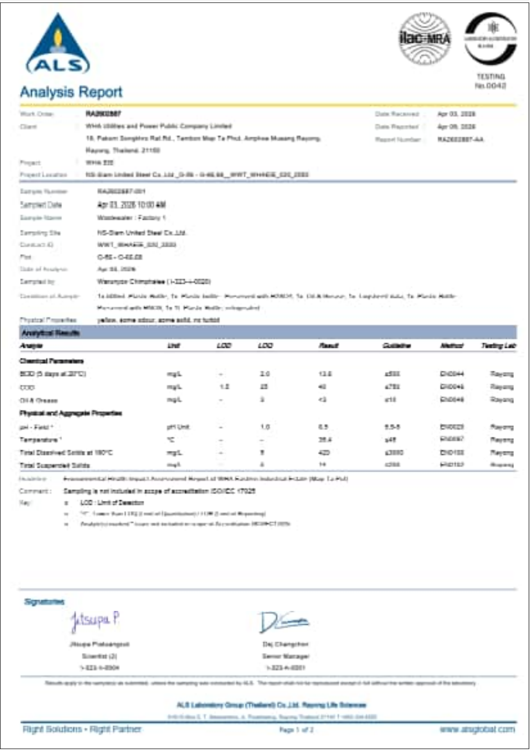
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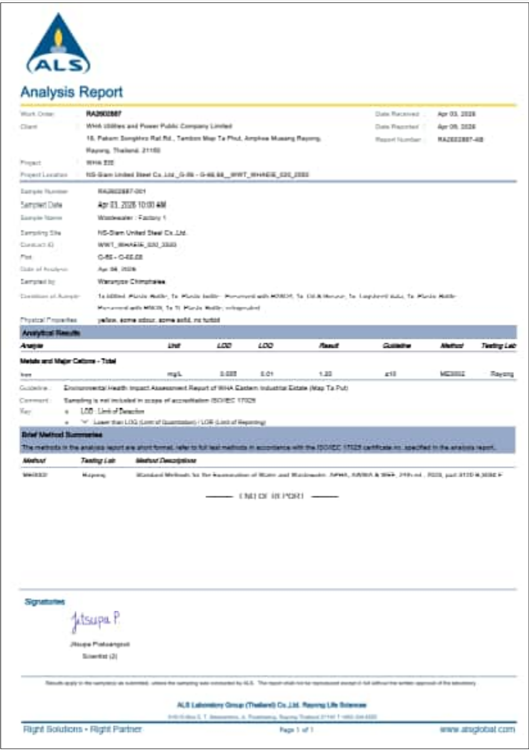
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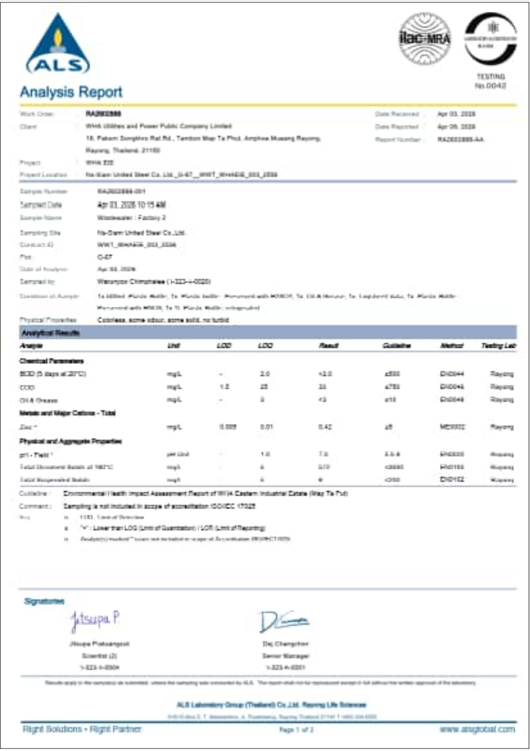
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Sampled Date Apr 03, 2026 10:15 AM

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Sampled Date Apr 03, 2026 10:15 AM

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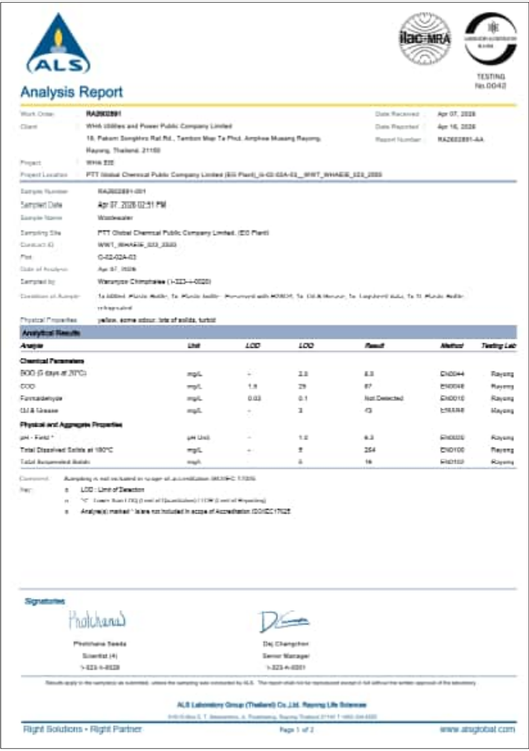
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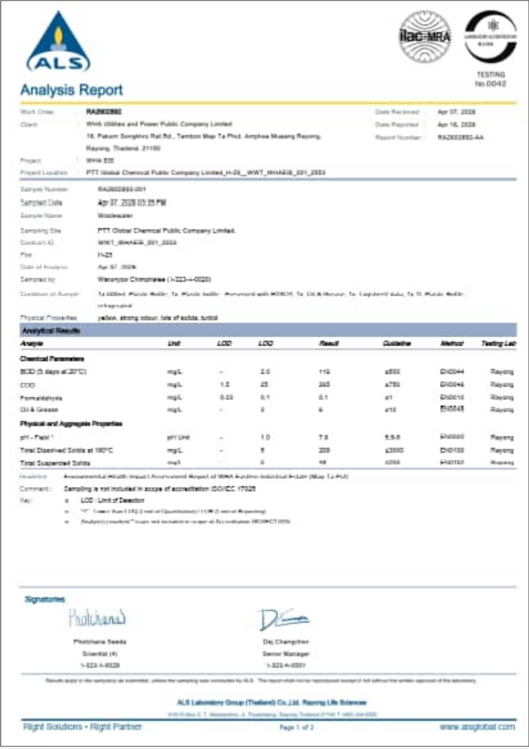

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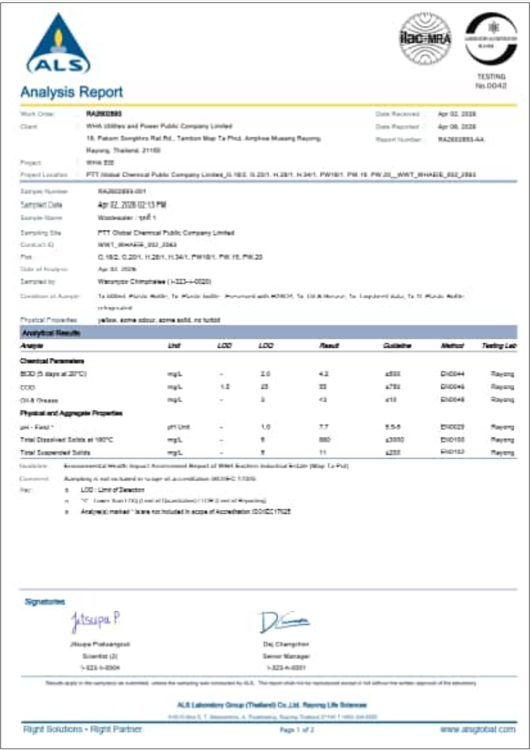

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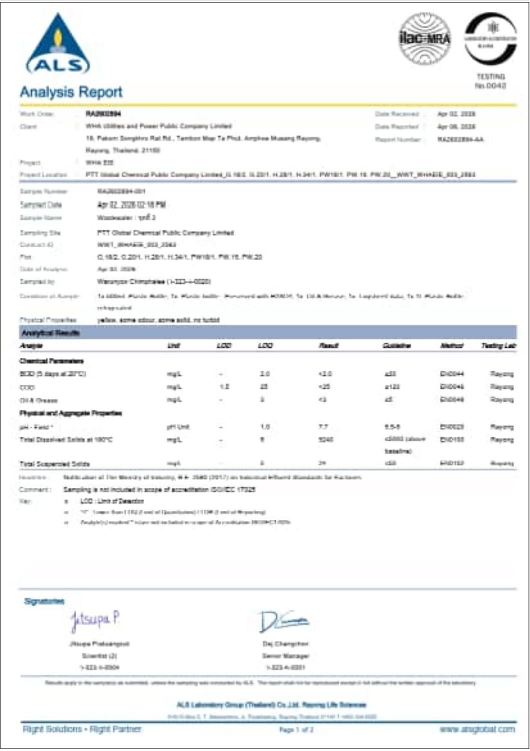

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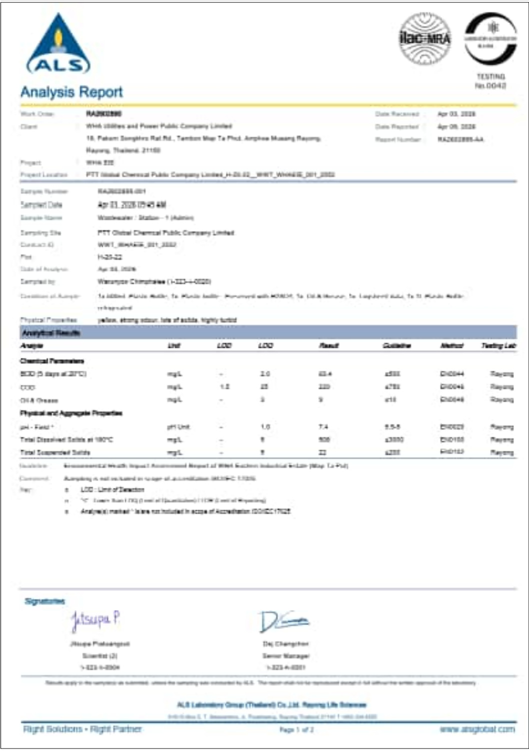

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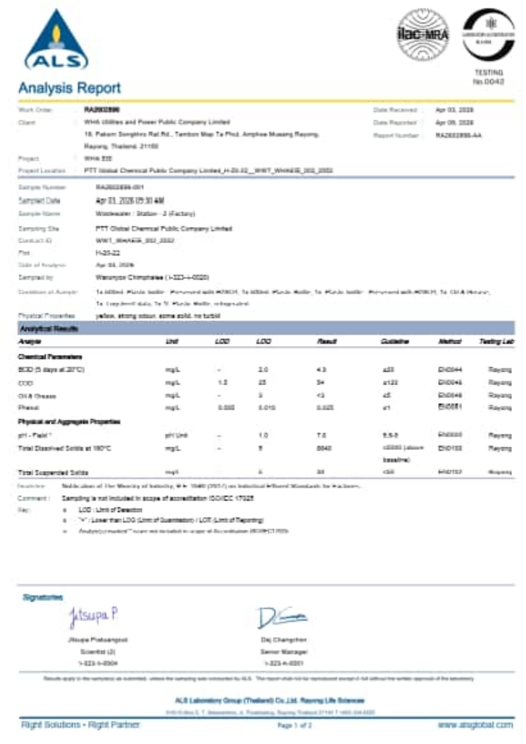
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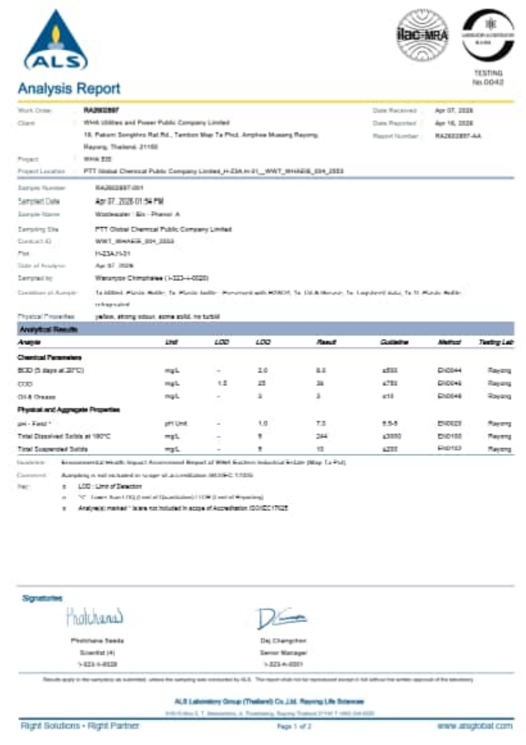
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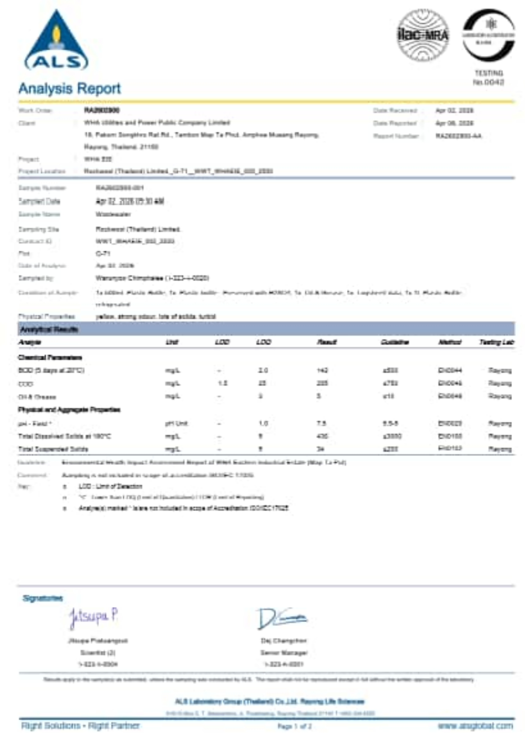
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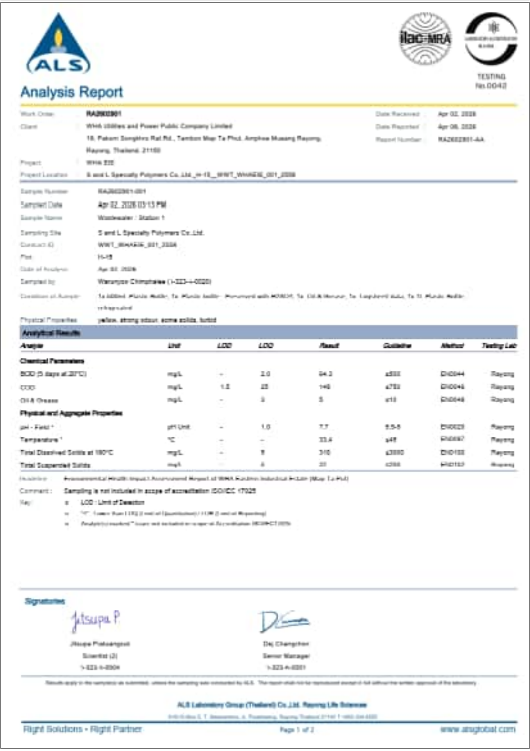
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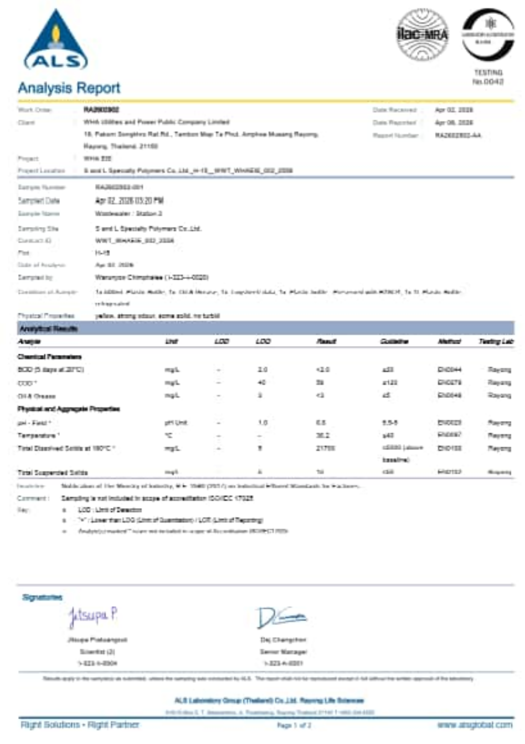
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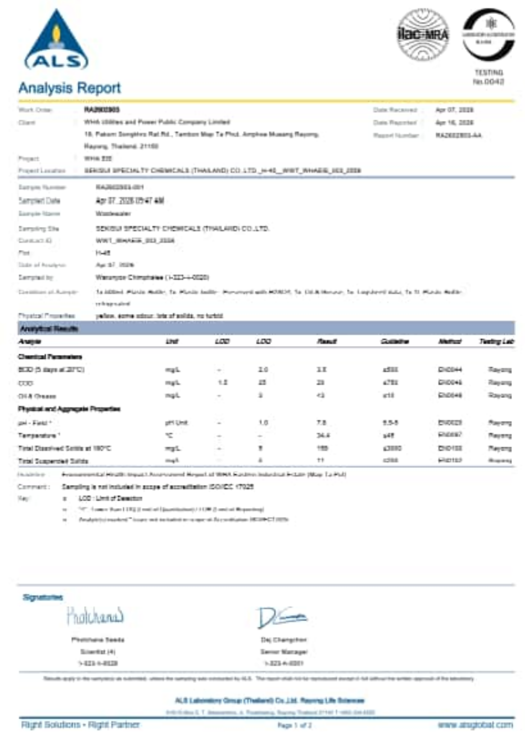
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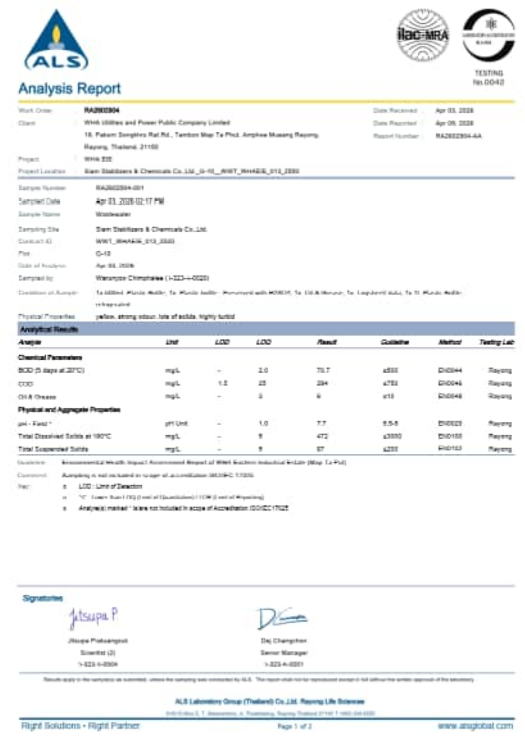
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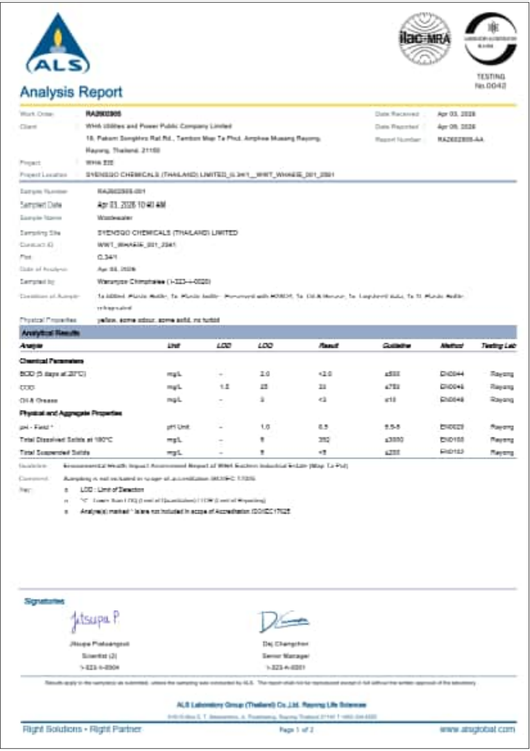
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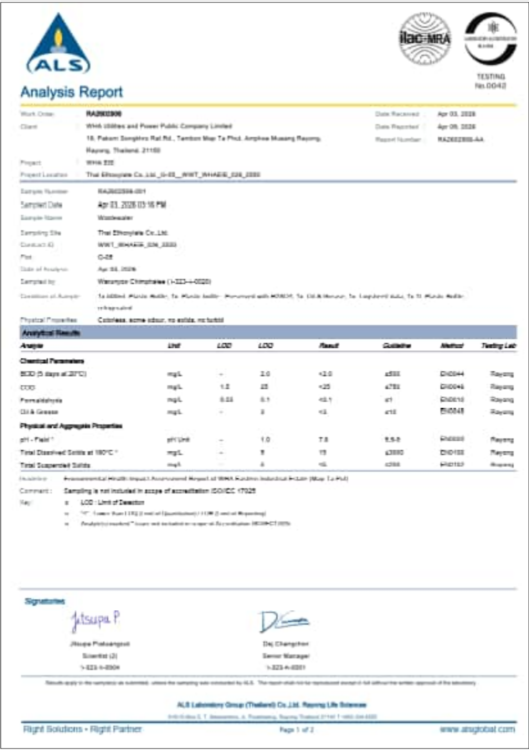
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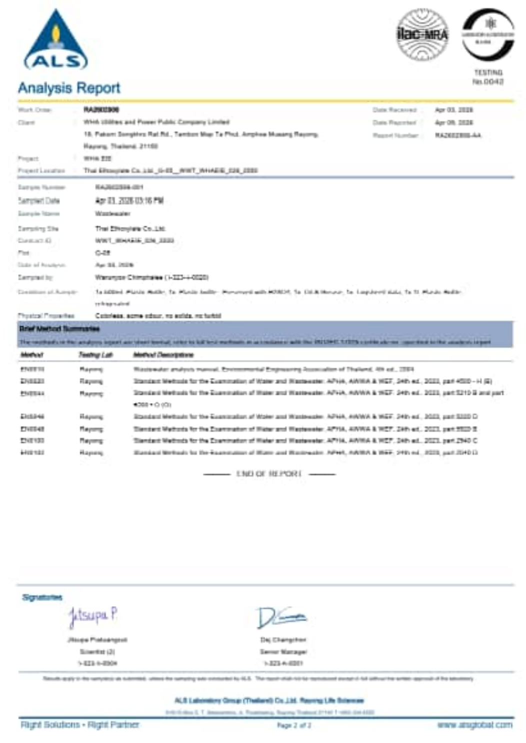
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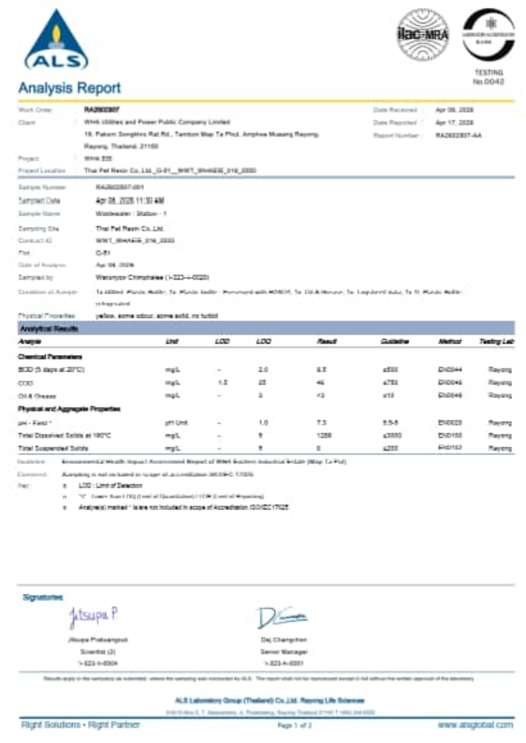
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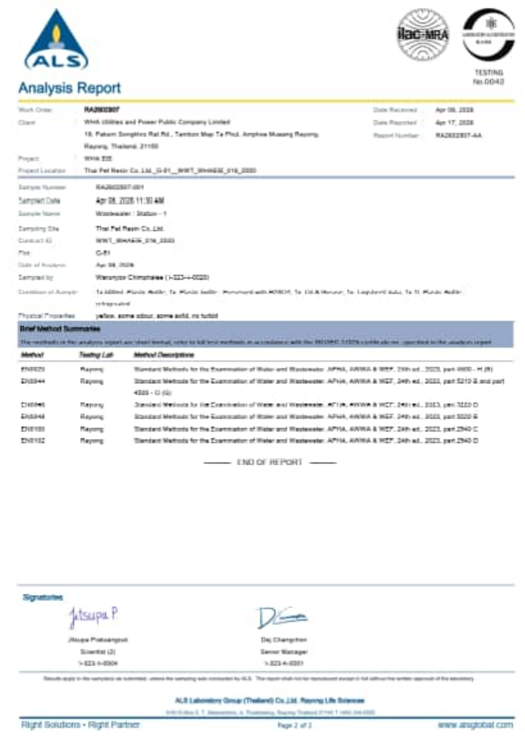
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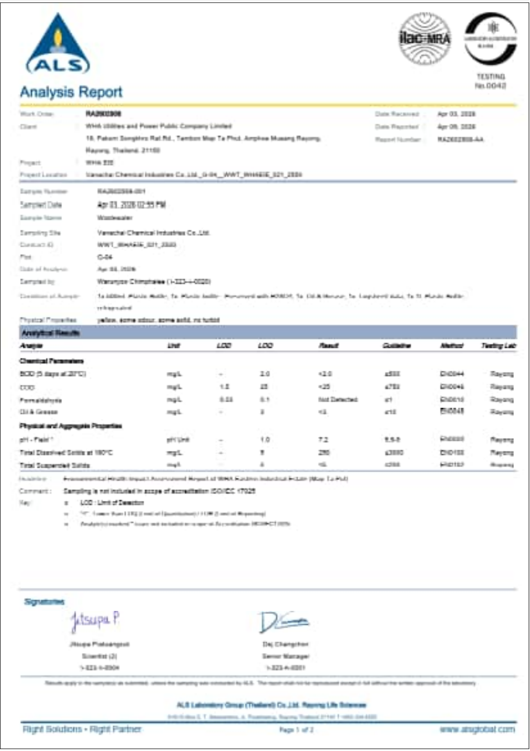
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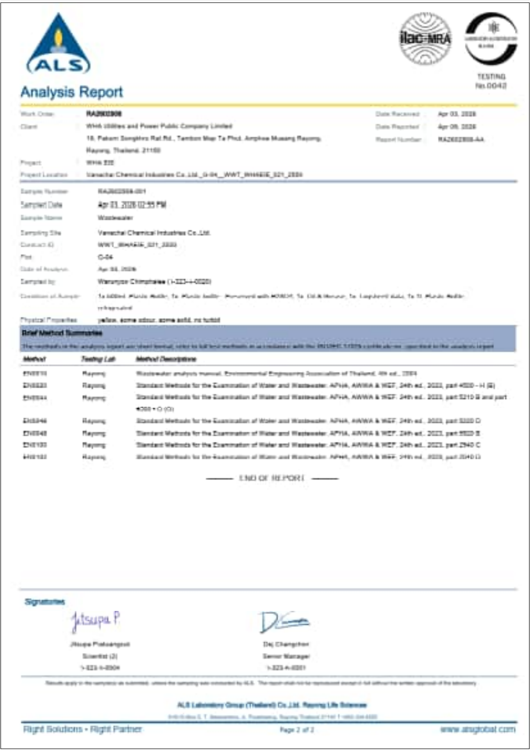
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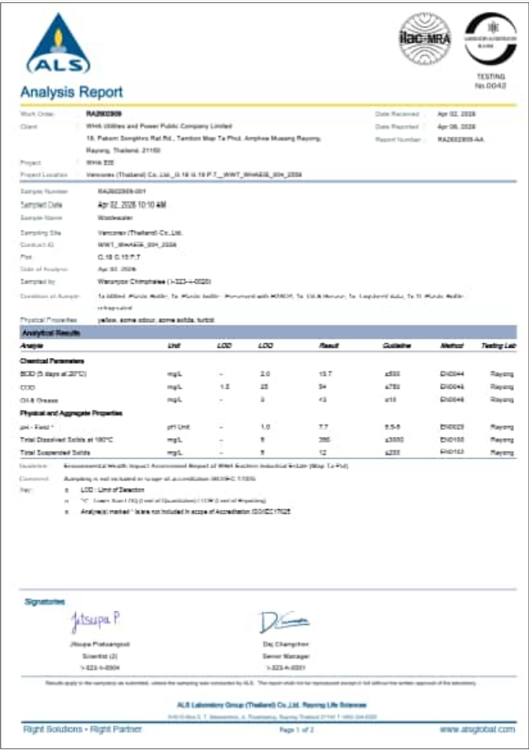
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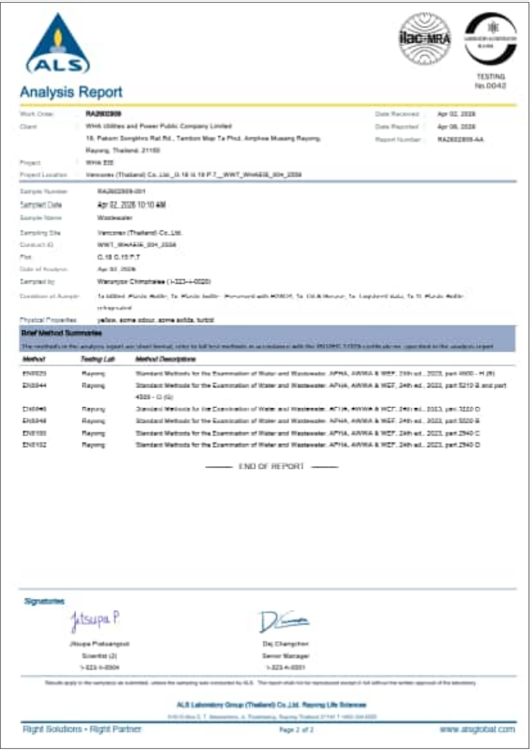
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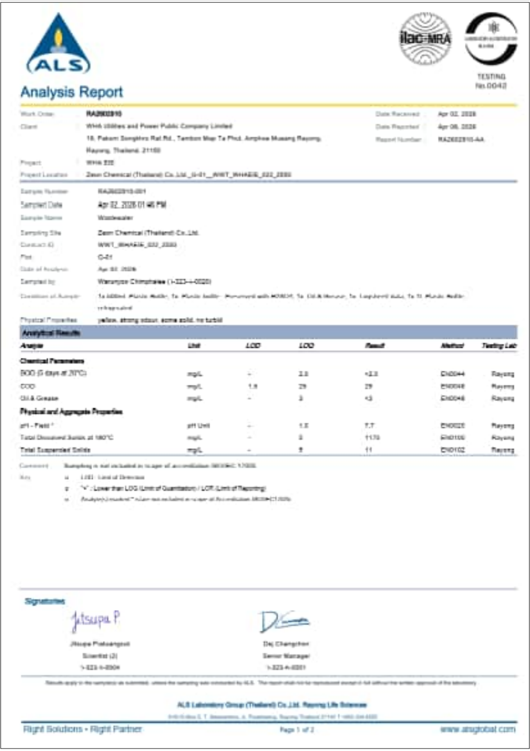
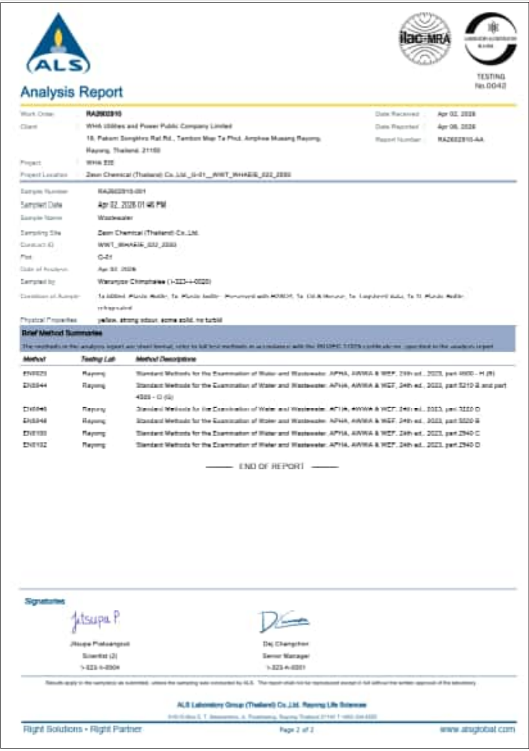

Analysis Report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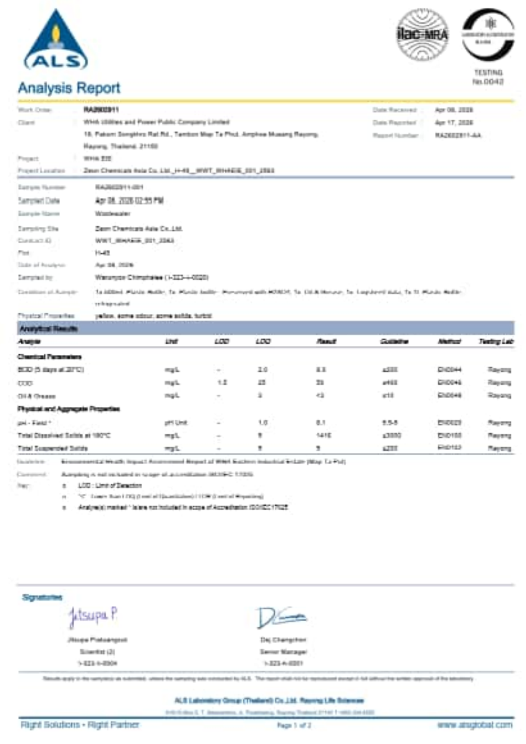

Analysis Report

Work Order: RA2602911 — Date Received: Apr 08, 2026
Client: WHA Utilities and Power Public Company Limited — Date Reported: Apr 17, 2026
18, Pakorn Songkhro Rat Rd., Tambon Map Ta Phut, Amphoe Mueang Rayong, — Report Number: RA2602911-AA
Rayong, Thailand. 21150
Project: WHA EIE
Project Location: Zeon Chemicals Asia Co. Ltd._H-45__WWT_WHAEIE_001_2563

Sample Number: RA2602911-001
Sampled Date: Apr 08, 2026 02:55 PM
Sample Name: Wastewater
Sampling Site: Zeon Chemicals Asia Co.,Ltd.
Contract ID: WWT_WHAEIE_001_2563
Plot: H-45
Date of Analysis: Apr 08, 2026
Sampled by: Waranyoo Chimphalee (1-223-4-0020)
Condition of Sample: [illegible]
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	8.5	≤500	EN0044	Rayong
COD	mg/L	1.5	25	55	≤450	EN0046	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	EN0048	Rayong
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	8.1	5.5-9	EN0023	Rayong
Total Dissolved Solids at 180°C	mg/L	-	5	1416	≤3000	EN0188	Rayong
Total Suspended Solids	mg/L	-	5	5	≤200	EN0182	Rayong

Guideline: Environmental Health Impact Assessment Report of WHA Eastern Industrial Estate (Map Ta Phut)
Comment: Sampling is not included in scope of accreditation ISO/IEC 17025
Key:
- LOD : Limit of Detection
- [illegible]
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025

Signatories
Jitsupa P
Jitsupa Plaksangsuk
Scientist (2)

Dej Changchon
Senior Manager

ALS Laboratory Group (Thailand) Co.,Ltd. Rayong Life Sciences
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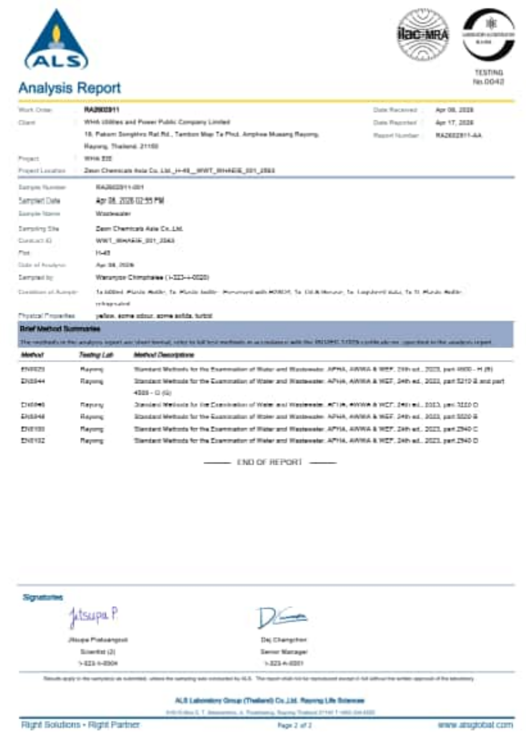

Analysis Report

Work Order: RA2602911 — Date Received: Apr 08, 2026
Client: WHA Utilities and Power Public Company Limited — Date Reported: Apr 17, 2026
18, Pakorn Songkhro Rat Rd., Tambon Map Ta Phut, Amphoe Mueang Rayong, — Report Number: RA2602911-AA
Rayong, Thailand. 21150
Project: WHA EIE
Project Location: Zeon Chemicals Asia Co. Ltd._H-45__WWT_WHAEIE_001_2563

Sample Number: RA2602911-001
Sampled Date: Apr 08, 2026 02:55 PM
Sample Name: Wastewater
Sampling Site: Zeon Chemicals Asia Co.,Ltd.
Contract ID: WWT_WHAEIE_001_2563
Plot: H-45
Date of Analysis: Apr 08, 2026
Sampled by: Waranyoo Chimphalee (1-223-4-0020)
Condition of Sample: [illegible]
Physical Properties: yellow, some odour, some solids, turbid

Brief Method Summaries

[illegible]

Method	Testing Lab	Method Descriptions
EN0023	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0188	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C
EN0182	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

END OF REPORT

Signatories
Jitsupa P
Jitsupa Plaksangsuk
Scientist (2)

Dej Changchon
Senior Manager

ALS Laboratory Group (Thailand) Co.,Ltd. Rayong Life Sciences
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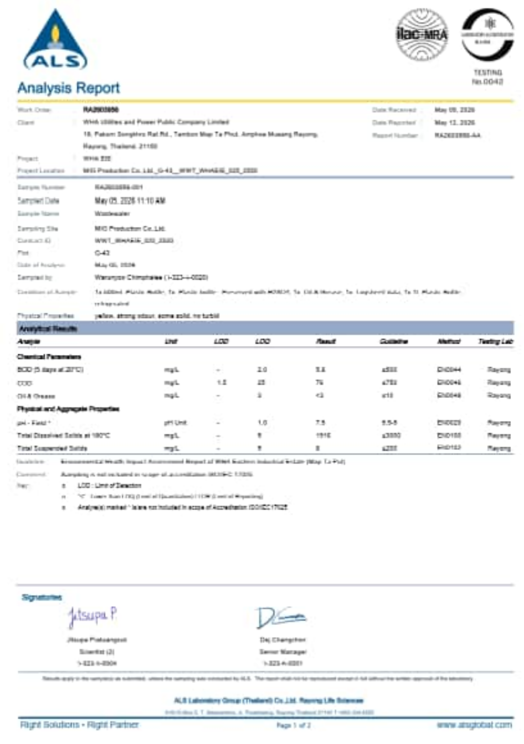

Analysis Report

Work Order: RA2603856 — Date Received: May 05, 2026
Client: WHA Utilities and Power Public Company Limited — Date Reported: May 12, 2026
18, Pakorn Songkhro Rat Rd., Tambon Map Ta Phut, Amphoe Mueang Rayong, — Report Number: RA2603856-AA
Rayong, Thailand. 21150
Project: WHA EIE
Project Location: MIG Production Co. Ltd._G-43__WWT_WHAEIE_020_2555

Sample Number: RA2603856-001
Sampled Date: May 05, 2026 11:10 AM
Sample Name: Wastewater
Sampling Site: MIG Production Co.,Ltd.
Contract ID: WWT_WHAEIE_020_2555
Plot: G-43
Date of Analysis: May 05, 2026
Sampled by: Waranyoo Chimphalee (1-223-4-0020)
Condition of Sample: [illegible]
Physical Properties: yellow, strong odour, some solid, no turbid

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	Rayong
COD	mg/L	1.5	25	76	≤750	EN0046	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	EN0048	Rayong
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.5	5.5-9	EN0023	Rayong
Total Dissolved Solids at 180°C	mg/L	-	5	1516	≤3000	EN0188	Rayong
Total Suspended Solids	mg/L	-	5	8	≤200	EN0182	Rayong

Guideline: Environmental Health Impact Assessment Report of WHA Eastern Industrial Estate (Map Ta Phut)
Comment: Sampling is not included in scope of accreditation ISO/IEC 17025
Key:
- LOD : Limit of Detection
- [illegible]
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025

Signatories
Jitsupa P
Jitsupa Plaksangsuk
Scientist (2)

Dej Changchon
Senior Manager

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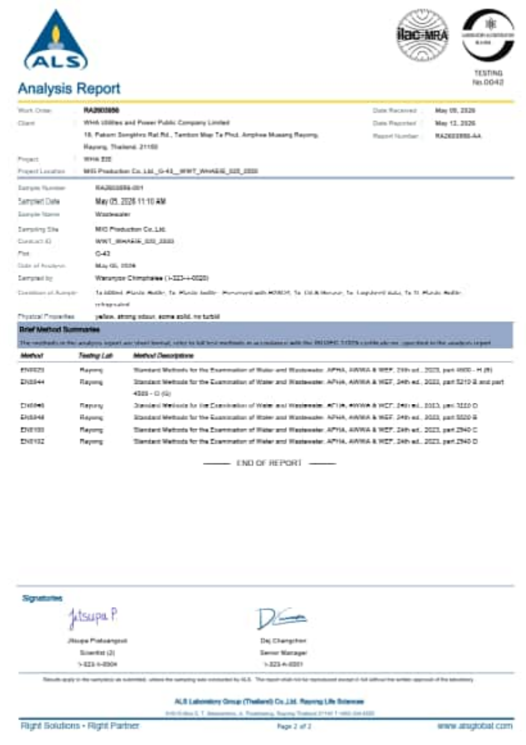

Analysis Report

Work Order: RA2603856 — Date Received: May 05, 2026
Client: WHA Utilities and Power Public Company Limited — Date Reported: May 12, 2026
18, Pakorn Songkhro Rat Rd., Tambon Map Ta Phut, Amphoe Mueang Rayong, — Report Number: RA2603856-AA
Rayong, Thailand. 21150
Project: WHA EIE
Project Location: MIG Production Co. Ltd._G-43__WWT_WHAEIE_020_2555

Sample Number: RA2603856-001
Sampled Date: May 05, 2026 11:10 AM
Sample Name: Wastewater
Sampling Site: MIG Production Co.,Ltd.
Contract ID: WWT_WHAEIE_020_2555
Plot: G-43
Date of Analysis: May 05, 2026
Sampled by: Waranyoo Chimphalee (1-223-4-0020)
Condition of Sample: [illegible]
Physical Properties: yellow, strong odour, some solid, no turbid

Brief Method Summaries

[illegible]

Method	Testing Lab	Method Descriptions
EN0023	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0188	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C
EN0182	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

END OF REPORT

Signatories
Jitsupa P
Jitsupa Plaksangsuk
Scientist (2)

Dej Changchon
Senior Manager

ALS Laboratory Group (Thailand) Co.,Ltd. Rayong Life Sciences
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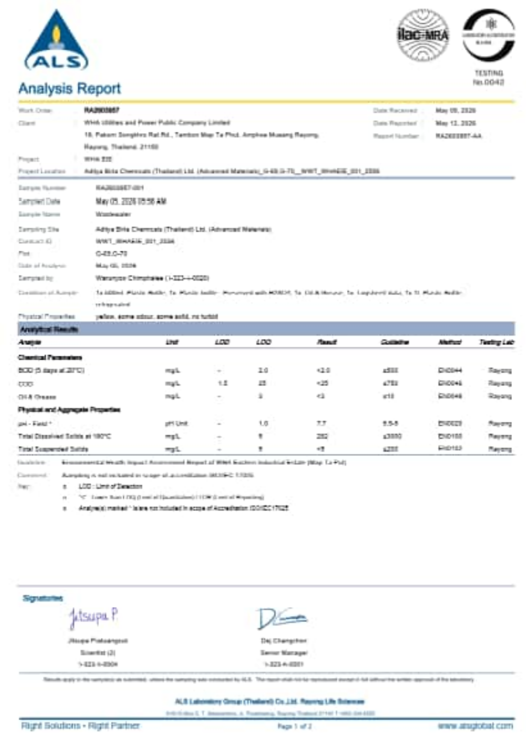

Analysis Report

Work Order: RA2603857 — Date Received: May 05, 2026
Client: WHA Utilities and Power Public Company Limited — Date Reported: May 12, 2026
18, Pakorn Songkhro Rat Rd., Tambon Map Ta Phut, Amphoe Mueang Rayong, — Report Number: RA2603857-AA
Rayong, Thailand. 21150
Project: WHA EIE
Project Location: Aditya Birla Chemicals (Thailand) Ltd. (Advanced Materials)_G-69,G-70__WWT_WHAEIE_001_2556

Sample Number: RA2603857-001
Sampled Date: May 05, 2026 09:58 AM
Sample Name: Wastewater
Sampling Site: Aditya Birla Chemicals (Thailand) Ltd. (Advanced Materials)
Contract ID: WWT_WHAEIE_001_2556
Plot: G-69,G-70
Date of Analysis: May 05, 2026
Sampled by: Waranyoo Chimphalee (1-223-4-0020)
Condition of Sample: [illegible]
Physical Properties: yellow, some odour, some solid, no 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	Rayong
COD	mg/L	1.5	25	<25	≤750	EN0046	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	EN0048	Rayong
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.7	5.5-9	EN0023	Rayong
Total Dissolved Solids at 180°C	mg/L	-	5	282	≤3000	EN0188	Rayong
Total Suspended Solids	mg/L	-	5	<5	≤200	EN0182	Rayong

Guideline: Environmental Health Impact Assessment Report of WHA Eastern Industrial Estate (Map Ta Phut)
Comment: Sampling is not included in scope of accreditation ISO/IEC 17025
Key:
- LOD : Limit of Detection
- [illegible]
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025

Signatories
Jitsupa P
Jitsupa Plaksangsuk
Scientist (2)

Dej Changchon
Senior Manager

ALS Laboratory Group (Thailand) Co.,Ltd. Rayong Life Sciences
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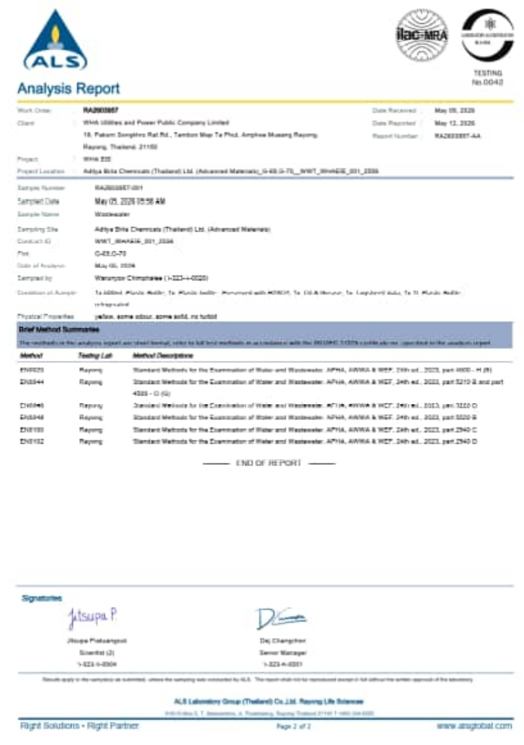

Analysis Report

Work Order: RA2603857 — Date Received: May 05, 2026
Client: WHA Utilities and Power Public Company Limited — Date Reported: May 12, 2026
18, Pakorn Songkhro Rat Rd., Tambon Map Ta Phut, Amphoe Mueang Rayong, — Report Number: RA2603857-AA
Rayong, Thailand. 21150
Project: WHA EIE
Project Location: Aditya Birla Chemicals (Thailand) Ltd. (Advanced Materials)_G-69,G-70__WWT_WHAEIE_001_2556

Sample Number: RA2603857-001
Sampled Date: May 05, 2026 09:58 AM
Sample Name: Wastewater
Sampling Site: Aditya Birla Chemicals (Thailand) Ltd. (Advanced Materials)
Contract ID: WWT_WHAEIE_001_2556
Plot: G-69,G-70
Date of Analysis: May 05, 2026
Sampled by: Waranyoo Chimphalee (1-223-4-0020)
Condition of Sample: [illegible]
Physical Properties: yellow, some odour, some solid, no turbid

Brief Method Summaries

[illegible]

Method	Testing Lab	Method Descriptions
EN0023	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0188	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C
EN0182	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

END OF REPORT

Signatories
Jitsupa P
Jitsupa Plaksangsuk
Scientist (2)

Dej Changchon
Senior Manager

ALS Laboratory Group (Thailand) Co.,Ltd. Rayong Life Sciences
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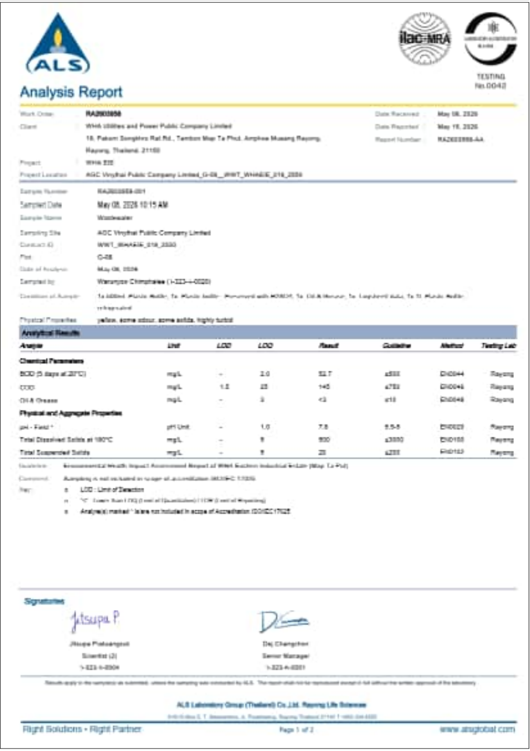

Analysis Report

Work Order: RA2603858 — Date Received: May 08, 2026
Client: WHA Utilities and Power Public Company Limited — Date Reported: May 15, 2026
18, Pakorn Songkhro Rat Rd., Tambon Map Ta Phut, Amphoe Mueang Rayong, — Report Number: RA2603858-AA
Rayong, Thailand. 21150
Project: WHA EIE
Project Location: AGC Vinythai Public Company Limited_G-08__WWT_WHAEIE_018_2550

Sample Number: RA2603858-001
Sampled Date: May 08, 2026 10:15 AM
Sample Name: Wastewater
Sampling Site: AGC Vinythai Public Company Limited
Contract ID: WWT_WHAEIE_018_2550
Plot: G-08
Date of Analysis: May 08, 2026
Sampled by: Waranyoo Chimphalee (1-223-4-0020)
Condition of Sample: [illegible]
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	52.7	≤500	EN0044	Rayong
COD	mg/L	1.5	25	145	≤750	EN0046	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	EN0048	Rayong
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.8	5.5-9	EN0023	Rayong
Total Dissolved Solids at 180°C	mg/L	-	5	500	≤3000	EN0188	Rayong
Total Suspended Solids	mg/L	-	5	20	≤200	EN0182	Rayong

Guideline: Environmental Health Impact Assessment Report of WHA Eastern Industrial Estate (Map Ta Phut)
Comment: Sampling is not included in scope of accreditation ISO/IEC 17025
Key:
- LOD : Limit of Detection
- [illegible]
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025

Signatories
Jitsupa P
Jitsupa Plaksangsuk
Scientist (2)

Dej Changchon
Senior Manager

ALS Laboratory Group (Thailand) Co.,Ltd. Rayong Life Sciences
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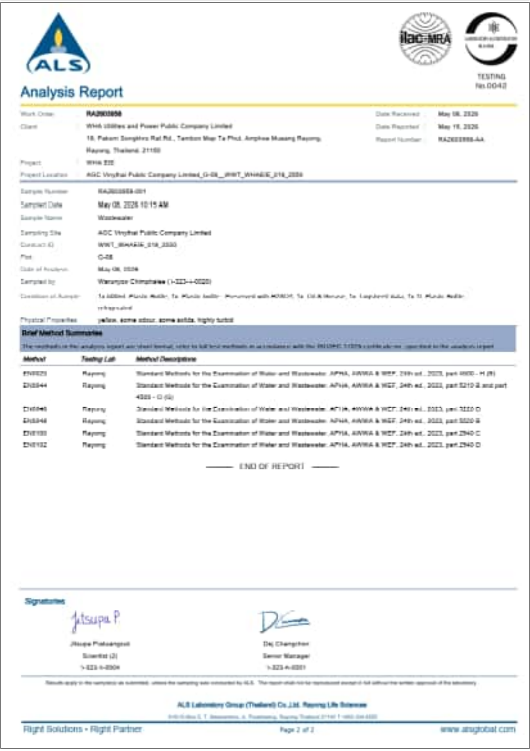

Analysis Report

Work Order: RA2603858 — Date Received: May 08, 2026
Client: WHA Utilities and Power Public Company Limited — Date Reported: May 15, 2026
18, Pakorn Songkhro Rat Rd., Tambon Map Ta Phut, Amphoe Mueang Rayong, — Report Number: RA2603858-AA
Rayong, Thailand. 21150
Project: WHA EIE
Project Location: AGC Vinythai Public Company Limited_G-08__WWT_WHAEIE_018_2550

Sample Number: RA2603858-001
Sampled Date: May 08, 2026 10:15 AM
Sample Name: Wastewater
Sampling Site: AGC Vinythai Public Company Limited
Contract ID: WWT_WHAEIE_018_2550
Plot: G-08
Date of Analysis: May 08, 2026
Sampled by: Waranyoo Chimphalee (1-223-4-0020)
Condition of Sample: [illegible]
Physical Properties: yellow, some odour, some solids, highly turbid

Brief Method Summaries

[illegible]

Method	Testing Lab	Method Descriptions
EN0023	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0188	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C
EN0182	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

END OF REPORT

Signatories
Jitsupa P
Jitsupa Plaksangsuk
Scientist (2)

Dej Changchon
Senior Manager

ALS Laboratory Group (Thailand) Co.,Ltd. Rayong Life Sciences
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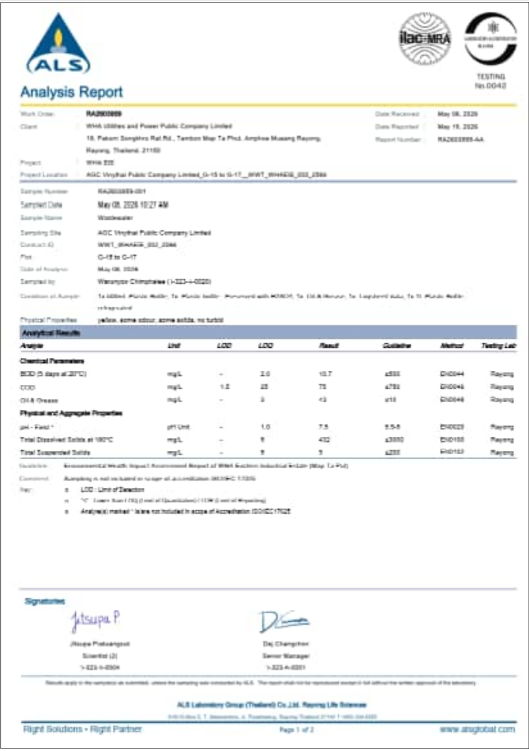

Analysis Report

Work Order: RA2603859 — Date Received: May 08, 2026
Client: WHA Utilities and Power Public Company Limited — Date Reported: May 15, 2026
18, Pakorn Songkhro Rat Rd., Tambon Map Ta Phut, Amphoe Mueang Rayong, — Report Number: RA2603859-AA
Rayong, Thailand. 21150
Project: WHA EIE
Project Location: AGC Vinythai Public Company Limited_G-15 to G-17__WWT_WHAEIE_022_2566

Sample Number: RA2603859-001
Sampled Date: May 08, 2026 10:27 AM
Sample Name: Wastewater
Sampling Site: AGC Vinythai Public Company Limited
Contract ID: WWT_WHAEIE_022_2566
Plot: G-15 to G-17
Date of Analysis: May 08, 2026
Sampled by: Waranyoo Chimphalee (1-223-4-0020)
Condition of Sample: [illegible]
Physical Properties: yellow, some odour, some solids, no 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	Rayong
COD	mg/L	1.5	25	75	≤750	EN0046	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	EN0048	Rayong
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.5	5.5-9	EN0023	Rayong
Total Dissolved Solids at 180°C	mg/L	-	5	432	≤3000	EN0188	Rayong
Total Suspended Solids	mg/L	-	5	5	≤200	EN0182	Rayong

Guideline: Environmental Health Impact Assessment Report of WHA Eastern Industrial Estate (Map Ta Phut)
Comment: Sampling is not included in scope of accreditation ISO/IEC 17025
Key:
- LOD : Limit of Detection
- [illegible]
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025

Signatories
Jitsupa P
Jitsupa Plaksangsuk
Scientist (2)

Dej Changchon
Senior Manager

ALS Laboratory Group (Thailand) Co.,Ltd. Rayong Life Sciences
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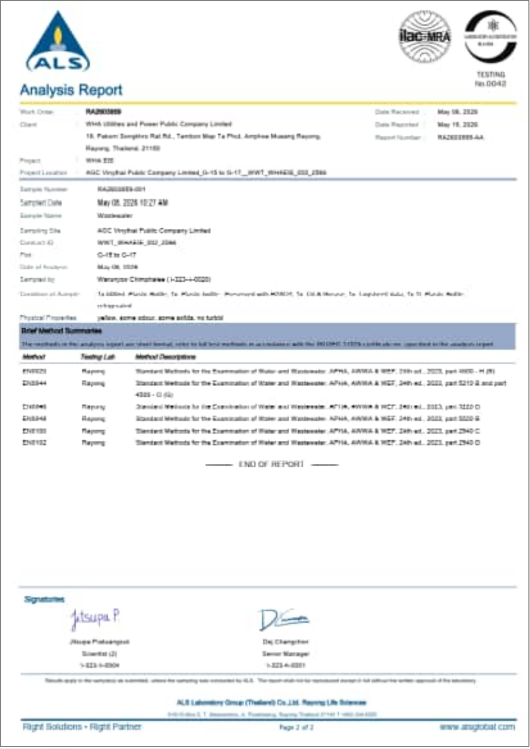
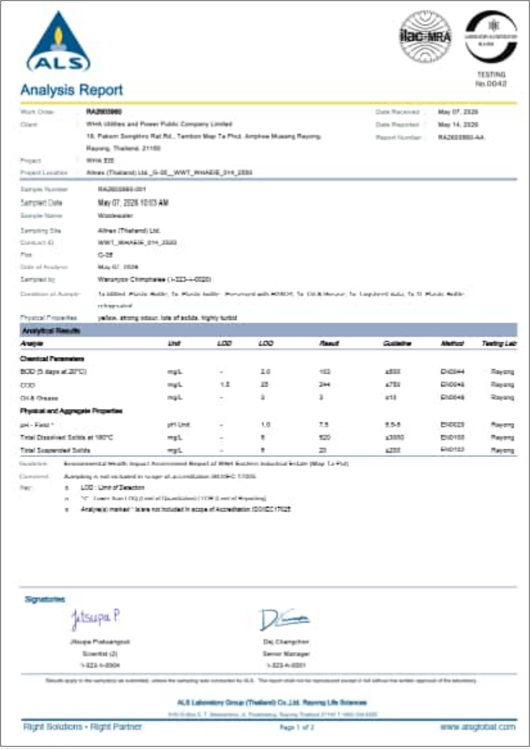
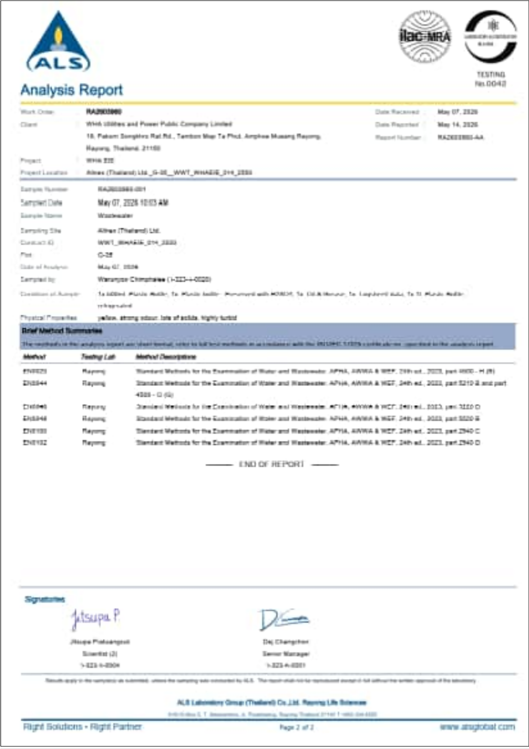


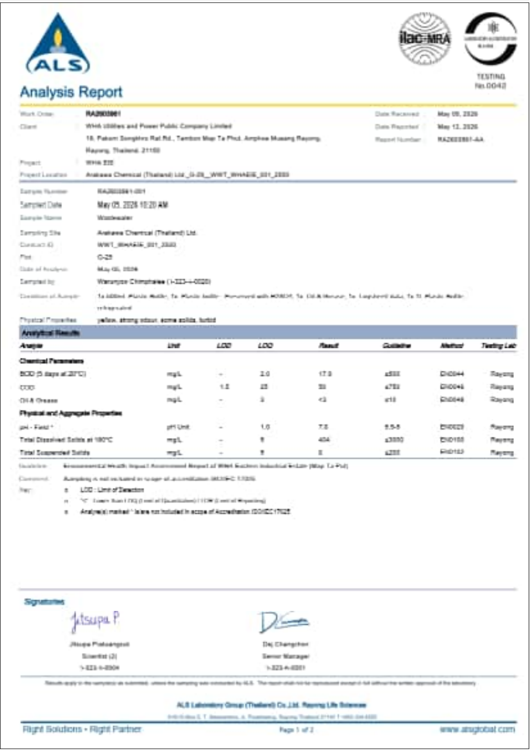
Analysis Report



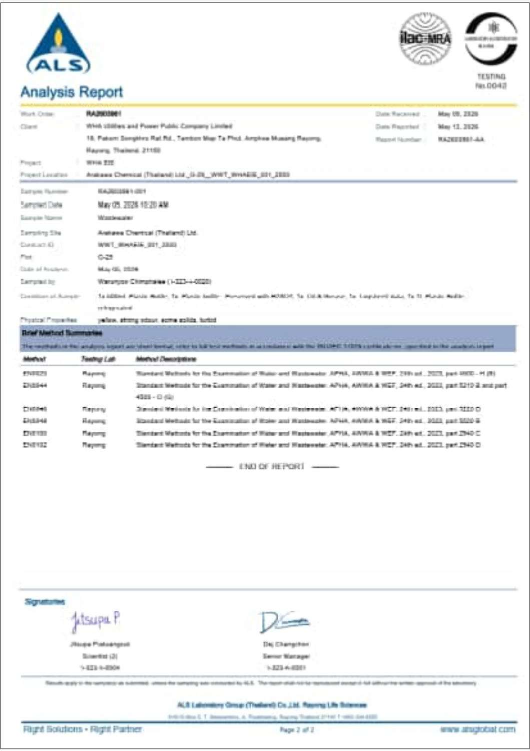
Analysis Report



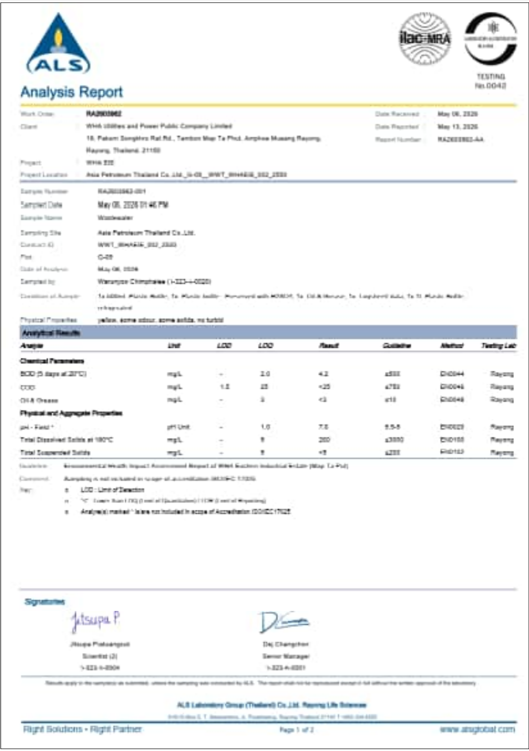
Analysis Report



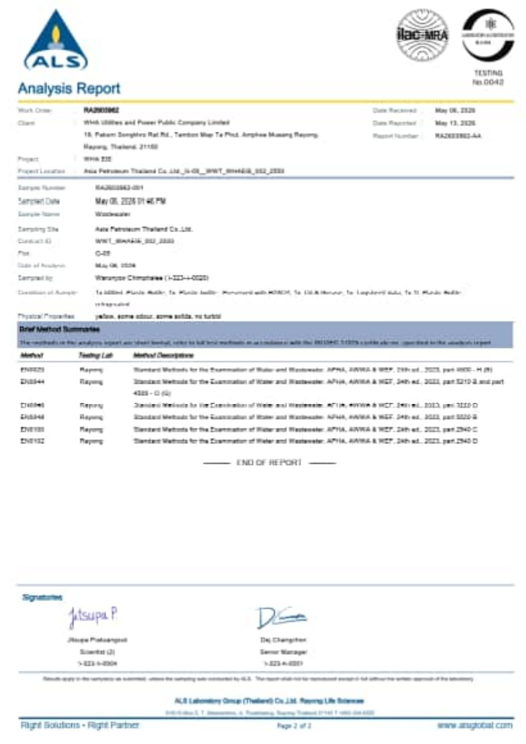
Analysis Report



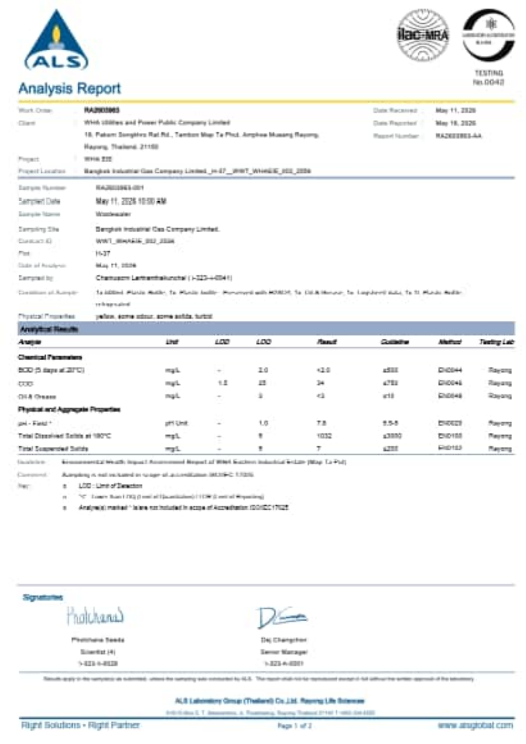
Analysis Report



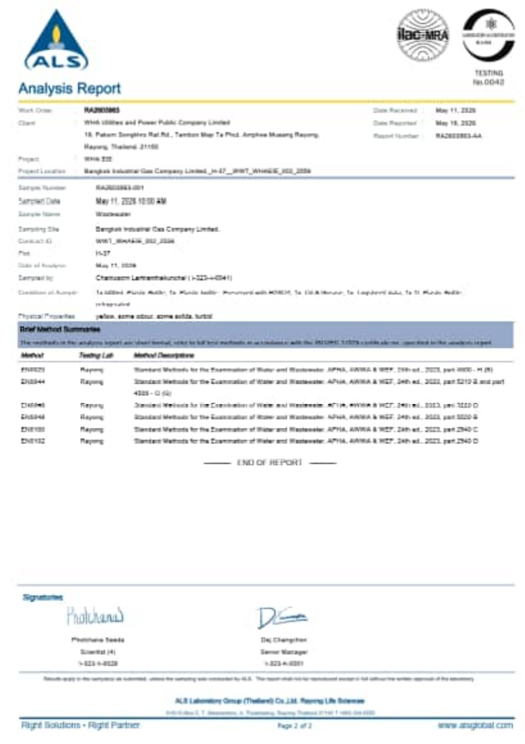
Analysis Report



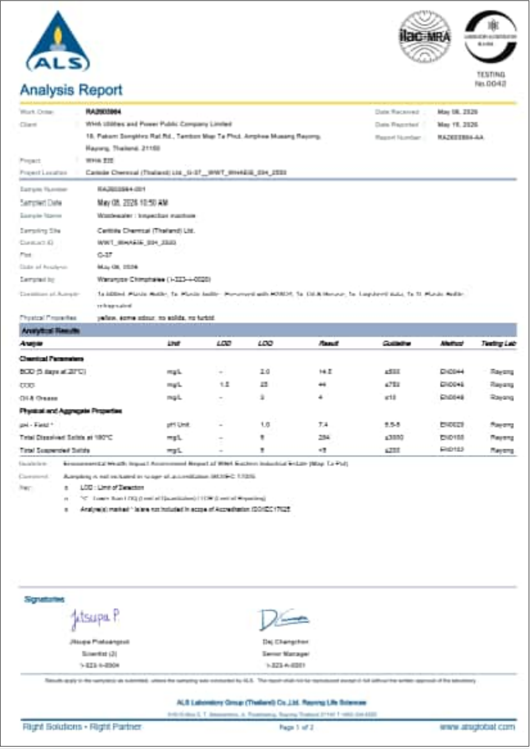
Analysis Report



Analysis Report



Analysis Report



ALS

TESTING
No.0042

Analysis Report

Work Order: RA2603984
Client: WHA Utilities and Power Public Company Limited
18, Pakorn Songkhro Rat Rd., Tambon Map Ta Phut, Amphoe Mueang Rayong,
Rayong, Thailand, 21150
Project: WHA EIE
Project Location: Carbide Chemical (Thailand) Ltd._G-37__WWT_WHAEIE_034_2550
Date Received: May 08, 2026
Date Reported: May 15, 2026
Report Number: RA2603984-AA

Sample Number: RA2603984-001
Sampled Date: May 08, 2026 10:50 AM
Sample Name: Wastewater : Inspection manhole
Sampling Site: Carbide Chemical (Thailand) Ltd.
Contract ID: WWT_WHAEIE_034_2550
Plot: G-37
Date of Analysis: May 08, 2026
Sampled by: Waranyoo Chimphalee (1-223-4-0020)
Condition of Sample: [illegible]
Physical Properties: yellow, some odour, no solids, no turbid

Analytical Results

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	14.5	≤500	EN0044	Rayong
COD	mg/L	1.5	25	44	≤750	EN0046	Rayong
Oil & Grease	mg/L	-	3	4	≤10	EN0048	Rayong
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.4	5.5-9	EN0023	Rayong
Total Dissolved Solids at 180°C	mg/L	-	5	284	≤3000	EN0100	Rayong
Total Suspended Solids	mg/L	-	5	<5	≤200	EN0102	Rayong

Guideline: Environmental Health Impact Assessment Report of WHA Eastern Industrial Estate (Map Ta Phut)
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

Jitsupa P.
Jitsupa Pliabuangpol
Scientist (2)
1-223-4-0004

Daj Changchon
Senior Manager
1-223-A-0001

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.

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[illegible]

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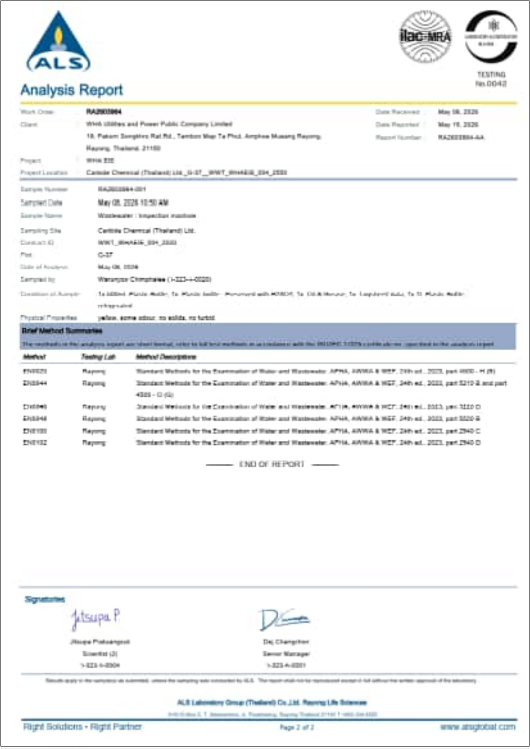

ALS

TESTING
No.0042

Analysis Report

Work Order: RA2603984
Client: WHA Utilities and Power Public Company Limited
18, Pakorn Songkhro Rat Rd., Tambon Map Ta Phut, Amphoe Mueang Rayong,
Rayong, Thailand, 21150
Project: WHA EIE
Project Location: Carbide Chemical (Thailand) Ltd._G-37__WWT_WHAEIE_034_2550
Date Received: May 08, 2026
Date Reported: May 15, 2026
Report Number: RA2603984-AA

Sample Number: RA2603984-001
Sampled Date: May 08, 2026 10:50 AM
Sample Name: Wastewater : Inspection manhole
Sampling Site: Carbide Chemical (Thailand) Ltd.
Contract ID: WWT_WHAEIE_034_2550
Plot: G-37
Date of Analysis: May 08, 2026
Sampled by: Waranyoo Chimphalee (1-223-4-0020)
Condition of Sample: [illegible]
Physical Properties: yellow, some odour, no solids, no turbid

Brief Method Summaries

[illegible]

Method	Testing Lab	Method Descriptions
EN0023	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0100	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C
EN0102	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

—— END OF REPORT ——

Signatories

Jitsupa P.
Jitsupa Pliabuangpol
Scientist (2)
1-223-4-0004

Daj Changchon
Senior Manager
1-223-A-0001

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[illegible]

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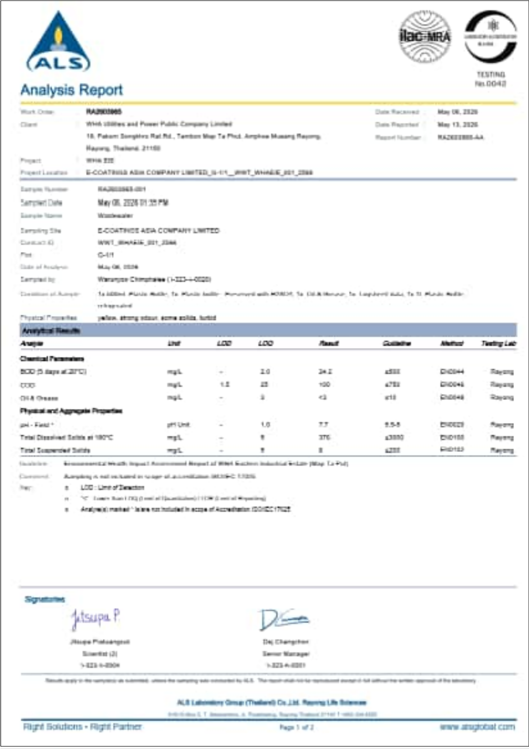

ALS

TESTING
No.0042

Analysis Report

Work Order: RA2603985
Client: WHA Utilities and Power Public Company Limited
18, Pakorn Songkhro Rat Rd., Tambon Map Ta Phut, Amphoe Mueang Rayong,
Rayong, Thailand, 21150
Project: WHA EIE
Project Location: E-COATINGS ASIA COMPANY LIMITED_G-1/1__WWT_WHAEIE_001_2566
Date Received: May 08, 2026
Date Reported: May 13, 2026
Report Number: RA2603985-AA

Sample Number: RA2603985-001
Sampled Date: May 08, 2026 01:35 PM
Sample Name: Wastewater
Sampling Site: E-COATINGS ASIA COMPANY LIMITED
Contract ID: WWT_WHAEIE_001_2566
Plot: G-1/1
Date of Analysis: May 08, 2026
Sampled by: Waranyoo Chimphalee (1-223-4-0020)
Condition of Sample: [illegible]
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	24.2	≤500	EN0044	Rayong
COD	mg/L	1.5	25	100	≤750	EN0046	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	EN0048	Rayong
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.7	5.5-9	EN0023	Rayong
Total Dissolved Solids at 180°C	mg/L	-	5	376	≤3000	EN0100	Rayong
Total Suspended Solids	mg/L	-	5	8	≤200	EN0102	Rayong

Guideline: Environmental Health Impact Assessment Report of WHA Eastern Industrial Estate (Map Ta Phut)
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

Jitsupa P.
Jitsupa Pliabuangpol
Scientist (2)
1-223-4-0004

Daj Changchon
Senior Manager
1-223-A-0001

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[illegible]

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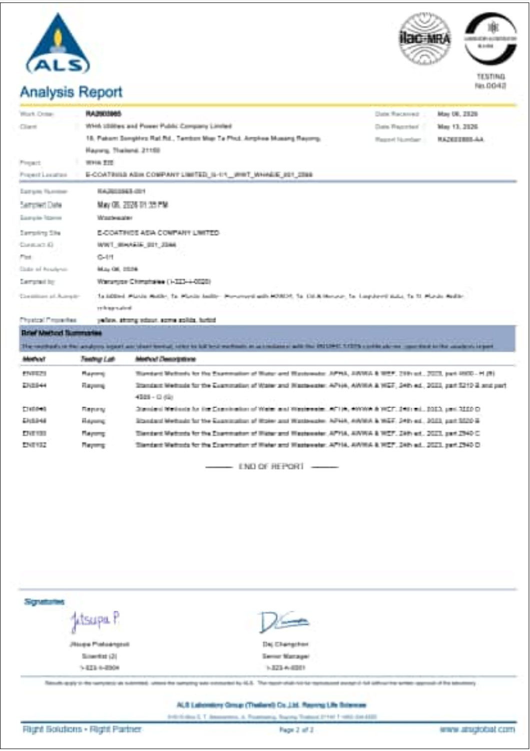

ALS

TESTING
No.0042

Analysis Report

Work Order: RA2603985
Client: WHA Utilities and Power Public Company Limited
18, Pakorn Songkhro Rat Rd., Tambon Map Ta Phut, Amphoe Mueang Rayong,
Rayong, Thailand, 21150
Project: WHA EIE
Project Location: E-COATINGS ASIA COMPANY LIMITED_G-1/1__WWT_WHAEIE_001_2566
Date Received: May 08, 2026
Date Reported: May 13, 2026
Report Number: RA2603985-AA

Sample Number: RA2603985-001
Sampled Date: May 08, 2026 01:35 PM
Sample Name: Wastewater
Sampling Site: E-COATINGS ASIA COMPANY LIMITED
Contract ID: WWT_WHAEIE_001_2566
Plot: G-1/1
Date of Analysis: May 08, 2026
Sampled by: Waranyoo Chimphalee (1-223-4-0020)
Condition of Sample: [illegible]
Physical Properties: yellow, strong odour, some solids, turbid

Brief Method Summaries

[illegible]

Method	Testing Lab	Method Descriptions
EN0023	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0100	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C
EN0102	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

—— END OF REPORT ——

Signatories

Jitsupa P.
Jitsupa Pliabuangpol
Scientist (2)
1-223-4-0004

Daj Changchon
Senior Manager
1-223-A-0001

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.

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[illegible]

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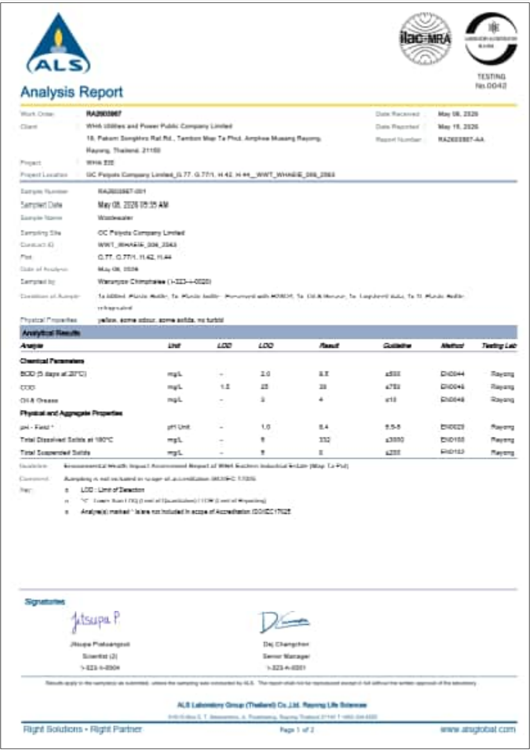

ALS

TESTING
No.0042

Analysis Report

Work Order: RA2603987
Client: WHA Utilities and Power Public Company Limited
18, Pakorn Songkhro Rat Rd., Tambon Map Ta Phut, Amphoe Mueang Rayong,
Rayong, Thailand, 21150
Project: WHA EIE
Project Location: OC Polyols Company Limited_G.77, G.77/1, H.42, H.44__WWT_WHAEIE_006_2563
Date Received: May 08, 2026
Date Reported: May 15, 2026
Report Number: RA2603987-AA

Sample Number: RA2603987-001
Sampled Date: May 08, 2026 09:35 AM
Sample Name: Wastewater
Sampling Site: OC Polyols Company Limited
Contract ID: WWT_WHAEIE_006_2563
Plot: G.77, G.77/1, H.42, H.44
Date of Analysis: May 08, 2026
Sampled by: Waranyoo Chimphalee (1-223-4-0020)
Condition of Sample: [illegible]
Physical Properties: yellow, some odour, some solids, no 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	Rayong
COD	mg/L	1.5	25	39	≤750	EN0046	Rayong
Oil & Grease	mg/L	-	3	4	≤10	EN0048	Rayong
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	8.4	5.5-9	EN0023	Rayong
Total Dissolved Solids at 180°C	mg/L	-	5	332	≤3000	EN0100	Rayong
Total Suspended Solids	mg/L	-	5	8	≤200	EN0102	Rayong

Guideline: Environmental Health Impact Assessment Report of WHA Eastern Industrial Estate (Map Ta Phut)
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

Jitsupa P.
Jitsupa Pliabuangpol
Scientist (2)
1-223-4-0004

Daj Changchon
Senior Manager
1-223-A-0001

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[illegible]

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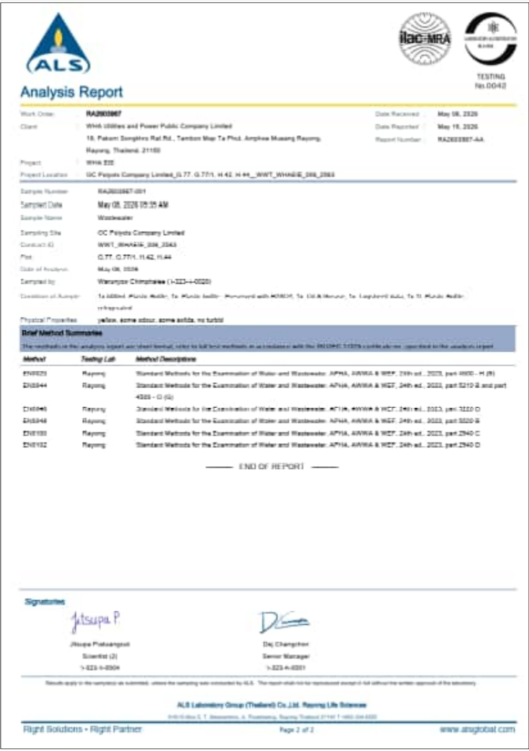

ALS

TESTING
No.0042

Analysis Report

Work Order: RA2603987
Client: WHA Utilities and Power Public Company Limited
18, Pakorn Songkhro Rat Rd., Tambon Map Ta Phut, Amphoe Mueang Rayong,
Rayong, Thailand, 21150
Project: WHA EIE
Project Location: OC Polyols Company Limited_G.77, G.77/1, H.42, H.44__WWT_WHAEIE_006_2563
Date Received: May 08, 2026
Date Reported: May 15, 2026
Report Number: RA2603987-AA

Sample Number: RA2603987-001
Sampled Date: May 08, 2026 09:35 AM
Sample Name: Wastewater
Sampling Site: OC Polyols Company Limited
Contract ID: WWT_WHAEIE_006_2563
Plot: G.77, G.77/1, H.42, H.44
Date of Analysis: May 08, 2026
Sampled by: Waranyoo Chimphalee (1-223-4-0020)
Condition of Sample: [illegible]
Physical Properties: yellow, some odour, some solids, no turbid

Brief Method Summaries

[illegible]

Method	Testing Lab	Method Descriptions
EN0023	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0100	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C
EN0102	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

—— END OF REPORT ——

Signatories

Jitsupa P.
Jitsupa Pliabuangpol
Scientist (2)
1-223-4-0004

Daj Changchon
Senior Manager
1-223-A-0001

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[illegible]

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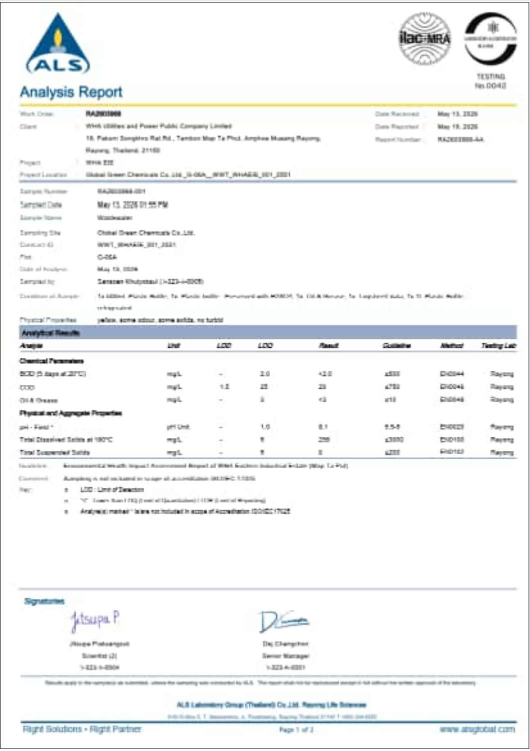

ALS

TESTING
No.0042

Analysis Report

Work Order: RA2603988
Client: WHA Utilities and Power Public Company Limited
18, Pakorn Songkhro Rat Rd., Tambon Map Ta Phut, Amphoe Mueang Rayong,
Rayong, Thailand, 21150
Project: WHA EIE
Project Location: Global Green Chemicals Co.,Ltd._G-06A__WWT_WHAEIE_001_2521
Date Received: May 13, 2026
Date Reported: May 15, 2026
Report Number: RA2603988-AA

Sample Number: RA2603988-001
Sampled Date: May 13, 2026 01:55 PM
Sample Name: Wastewater
Sampling Site: Global Green Chemicals Co.,Ltd.
Contract ID: WWT_WHAEIE_001_2521
Plot: G-06A
Date of Analysis: May 13, 2026
Sampled by: Sansoan Khutyotsaul (1-223-4-0005)
Condition of Sample: [illegible]
Physical Properties: yellow, some odour, some solids, no 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	Rayong
COD	mg/L	1.5	25	29	≤750	EN0046	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	EN0048	Rayong
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	8.1	5.5-9	EN0023	Rayong
Total Dissolved Solids at 180°C	mg/L	-	5	258	≤3000	EN0100	Rayong
Total Suspended Solids	mg/L	-	5	8	≤200	EN0102	Rayong

Guideline: Environmental Health Impact Assessment Report of WHA Eastern Industrial Estate (Map Ta Phut)
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

Jitsupa P.
Jitsupa Pliabuangpol
Scientist (2)
1-223-4-0004

Daj Changchon
Senior Manager
1-223-A-0001

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ALS Laboratory Group (Thailand) Co.,Ltd. Rayong Life Sciences
[illegible]

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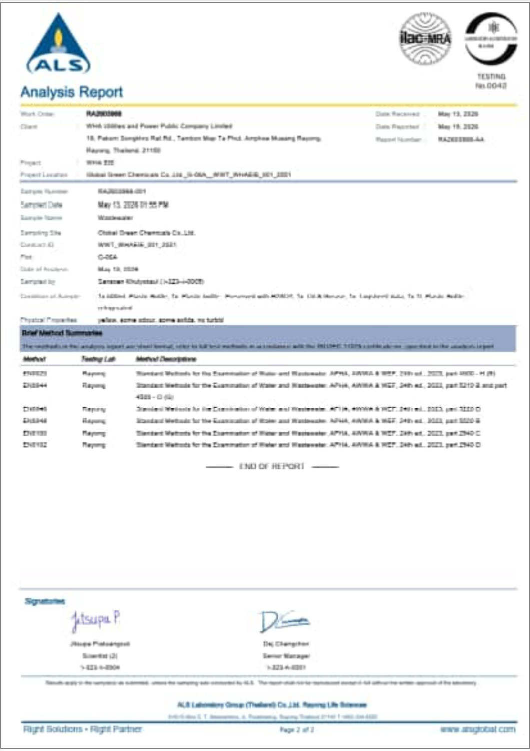

ALS

TESTING
No.0042

Analysis Report

Work Order: RA2603988
Client: WHA Utilities and Power Public Company Limited
18, Pakorn Songkhro Rat Rd., Tambon Map Ta Phut, Amphoe Mueang Rayong,
Rayong, Thailand, 21150
Project: WHA EIE
Project Location: Global Green Chemicals Co.,Ltd._G-06A__WWT_WHAEIE_001_2521
Date Received: May 13, 2026
Date Reported: May 15, 2026
Report Number: RA2603988-AA

Sample Number: RA2603988-001
Sampled Date: May 13, 2026 01:55 PM
Sample Name: Wastewater
Sampling Site: Global Green Chemicals Co.,Ltd.
Contract ID: WWT_WHAEIE_001_2521
Plot: G-06A
Date of Analysis: May 13, 2026
Sampled by: Sansoan Khutyotsaul (1-223-4-0005)
Condition of Sample: [illegible]
Physical Properties: yellow, some odour, some solids, no turbid

Brief Method Summaries

[illegible]

Method	Testing Lab	Method Descriptions
EN0023	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0100	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C
EN0102	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

—— END OF REPORT ——

Signatories

Jitsupa P.
Jitsupa Pliabuangpol
Scientist (2)
1-223-4-0004

Daj Changchon
Senior Manager
1-223-A-0001

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.

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[illegible]

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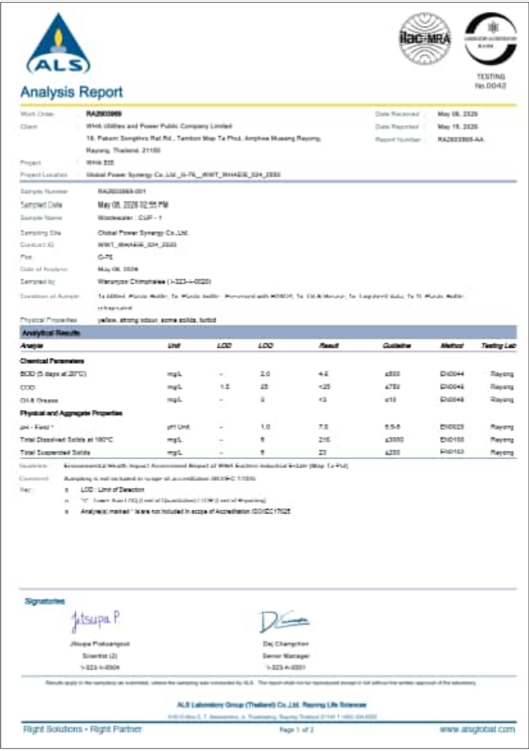

ALS

TESTING
No.0042

Analysis Report

Work Order: RA2603989
Client: WHA Utilities and Power Public Company Limited
18, Pakorn Songkhro Rat Rd., Tambon Map Ta Phut, Amphoe Mueang Rayong,
Rayong, Thailand, 21150
Project: WHA EIE
Project Location: Global Power Synergy Co.,Ltd._G-76__WWT_WHAEIE_024_2550
Date Received: May 08, 2026
Date Reported: May 15, 2026
Report Number: RA2603989-AA

Sample Number: RA2603989-001
Sampled Date: May 08, 2026 02:55 PM
Sample Name: Wastewater : CUP - 1
Sampling Site: Global Power Synergy Co.,Ltd.
Contract ID: WWT_WHAEIE_024_2550
Plot: G-76
Date of Analysis: May 08, 2026
Sampled by: Waranyoo Chimphalee (1-223-4-0020)
Condition of Sample: [illegible]
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	4.5	≤500	EN0044	Rayong
COD	mg/L	1.5	25	<25	≤750	EN0046	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	EN0048	Rayong
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.8	5.5-9	EN0023	Rayong
Total Dissolved Solids at 180°C	mg/L	-	5	216	≤3000	EN0100	Rayong
Total Suspended Solids	mg/L	-	5	23	≤200	EN0102	Rayong

Guideline: Environmental Health Impact Assessment Report of WHA Eastern Industrial Estate (Map Ta Phut)
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

Jitsupa P.
Jitsupa Pliabuangpol
Scientist (2)
1-223-4-0004

Daj Changchon
Senior Manager
1-223-A-0001

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. Rayong Life Sciences
[illegible]

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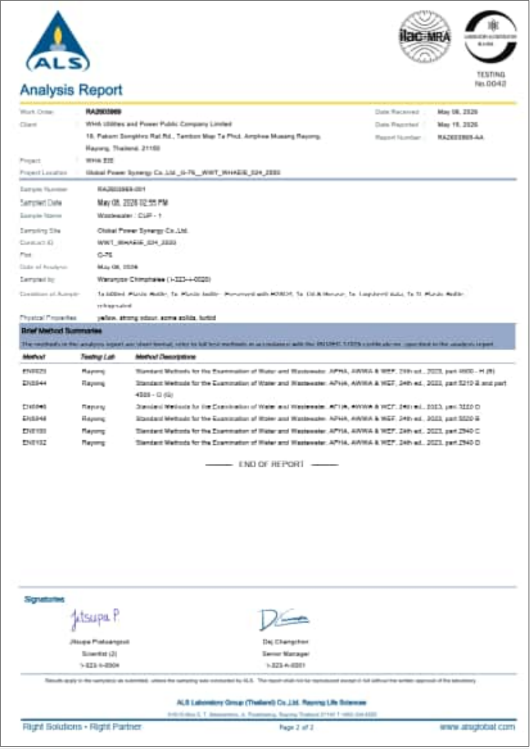


Analysis Report

TESTING No.0042

Work Order : RA2603969
Client : WHA Utilities and Power Public Company Limited
18, Pakorn Songkhro Rat Rd., Tambon Map Ta Phut, Amphoe Mueang Rayong, Rayong, Thailand, 21150
Date Received : May 08, 2026
Date Reported : May 15, 2026
Report Number : RA2603969-AA
Project : WHA EIE
Project Location : Global Power Synergy Co.,Ltd._G-76__WWT_WHAEIE_024_2553

Sample Number : RA2603969-001
Sampled Date : May 08, 2026 02:55 PM
Sample Name : Wastewater : CUP - 1
Sampling Site : Global Power Synergy Co.,Ltd.
Contract ID : WWT_WHAEIE_024_2553
Plot : G-76
Date of Analysis : May 08, 2026
Sampled by : Waranyoo Chimphalee (I-323-I-0020)
Condition of Sample : [illegible]
Physical Properties : yellow, strong odour, some solids, turbid

Brief Method Summaries

[illegible]

Method	Testing Lab	Method Descriptions
EN0023	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0155	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C
EN0152	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

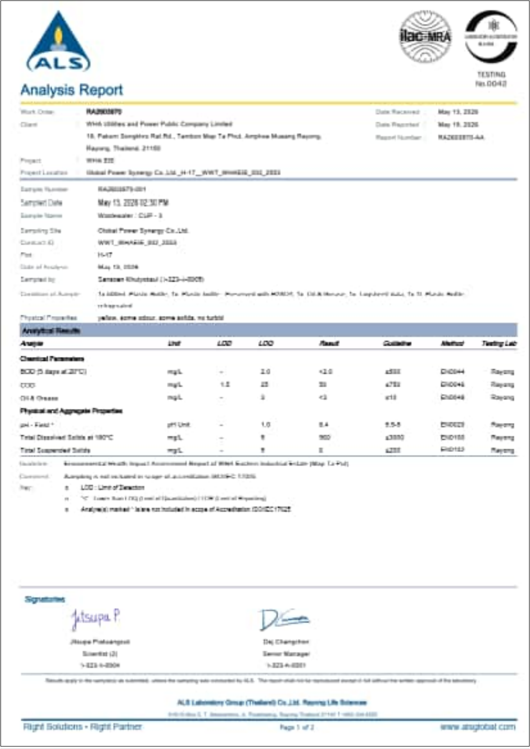
——— END OF REPORT ———

Signatories

Jitsupa P
Scientist (2)

Senior Manager

ALS Laboratory Group (Thailand) Co.,Ltd. Rayong Life Science



Analysis Report

TESTING No.0042

Work Order : RA2603970
Client : WHA Utilities and Power Public Company Limited
18, Pakorn Songkhro Rat Rd., Tambon Map Ta Phut, Amphoe Mueang Rayong, Rayong, Thailand, 21150
Date Received : May 13, 2026
Date Reported : May 19, 2026
Report Number : RA2603970-AA
Project : WHA EIE
Project Location : Global Power Synergy Co.,Ltd._H-17__WWT_WHAEIE_032_2553

Sample Number : RA2603970-001
Sampled Date : May 13, 2026 02:30 PM
Sample Name : Wastewater : CUP - 3
Sampling Site : Global Power Synergy Co.,Ltd.
Contract ID : WWT_WHAEIE_032_2553
Plot : H-17
Date of Analysis : May 13, 2026
Sampled by : [illegible] (I-323-I-0005)
Condition of Sample : [illegible]
Physical Properties : yellow, some odour, some solids, no 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	Rayong
COD	mg/L	1.5	25	55	≤750	EN0046	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	EN0048	Rayong
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	8.4	5.5-9	EN0023	Rayong
Total Dissolved Solids at 180°C	mg/L	-	5	960	≤3000	EN0155	Rayong
Total Suspended Solids	mg/L	-	5	8	≤200	EN0152	Rayong

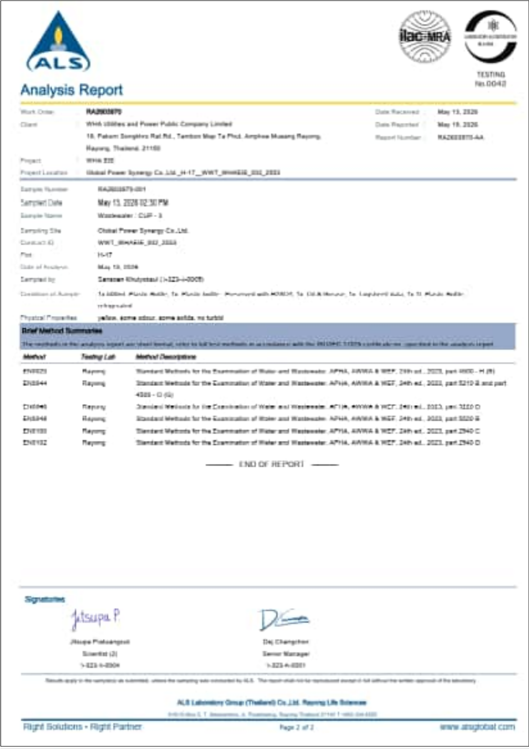
Guideline : Environmental Health Impact Assessment Report of WHA Eastern Industrial Estate (Map Ta Phut)
Comment : Sampling is not included in scope of accreditation ISO/IEC 17025
Key : LOD : Limit of Detection
"<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC17025

Signatories

Jitsupa P
Scientist (2)

Senior Manager

ALS Laboratory Group (Thailand) Co.,Ltd. Rayong Life Science



Analysis Report

TESTING No.0042

Work Order : RA2603970
Client : WHA Utilities and Power Public Company Limited
18, Pakorn Songkhro Rat Rd., Tambon Map Ta Phut, Amphoe Mueang Rayong, Rayong, Thailand, 21150
Date Received : May 13, 2026
Date Reported : May 19, 2026
Report Number : RA2603970-AA
Project : WHA EIE
Project Location : Global Power Synergy Co.,Ltd._H-17__WWT_WHAEIE_032_2553

Sample Number : RA2603970-001
Sampled Date : May 13, 2026 02:30 PM
Sample Name : Wastewater : CUP - 3
Sampling Site : Global Power Synergy Co.,Ltd.
Contract ID : WWT_WHAEIE_032_2553
Plot : H-17
Date of Analysis : May 13, 2026
Sampled by : [illegible] (I-323-I-0005)
Condition of Sample : [illegible]
Physical Properties : yellow, some odour, some solids, no turbid

Brief Method Summaries

[illegible]

Method	Testing Lab	Method Descriptions
EN0023	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0155	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C
EN0152	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

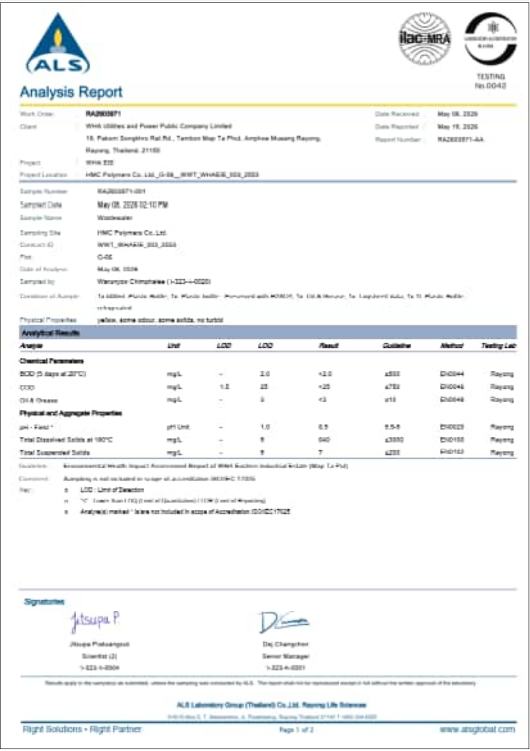
——— END OF REPORT ———

Signatories

Jitsupa P
Scientist (2)

Senior Manager

ALS Laboratory Group (Thailand) Co.,Ltd. Rayong Life Science



Analysis Report

TESTING No.0042

Work Order : RA2603971
Client : WHA Utilities and Power Public Company Limited
18, Pakorn Songkhro Rat Rd., Tambon Map Ta Phut, Amphoe Mueang Rayong, Rayong, Thailand, 21150
Date Received : May 08, 2026
Date Reported : May 15, 2026
Report Number : RA2603971-AA
Project : WHA EIE
Project Location : HMC Polymers Co., Ltd._G-08__WWT_WHAEIE_033_2553

Sample Number : RA2603971-001
Sampled Date : May 08, 2026 02:10 PM
Sample Name : Wastewater
Sampling Site : HMC Polymers Co.,Ltd.
Contract ID : WWT_WHAEIE_033_2553
Plot : G-08
Date of Analysis : May 08, 2026
Sampled by : Waranyoo Chimphalee (I-323-I-0020)
Condition of Sample : [illegible]
Physical Properties : yellow, some odour, some solids, no 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	Rayong
COD	mg/L	1.5	25	<25	≤750	EN0046	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	EN0048	Rayong
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	8.5	5.5-9	EN0023	Rayong
Total Dissolved Solids at 180°C	mg/L	-	5	640	≤3000	EN0155	Rayong
Total Suspended Solids	mg/L	-	5	7	≤200	EN0152	Rayong

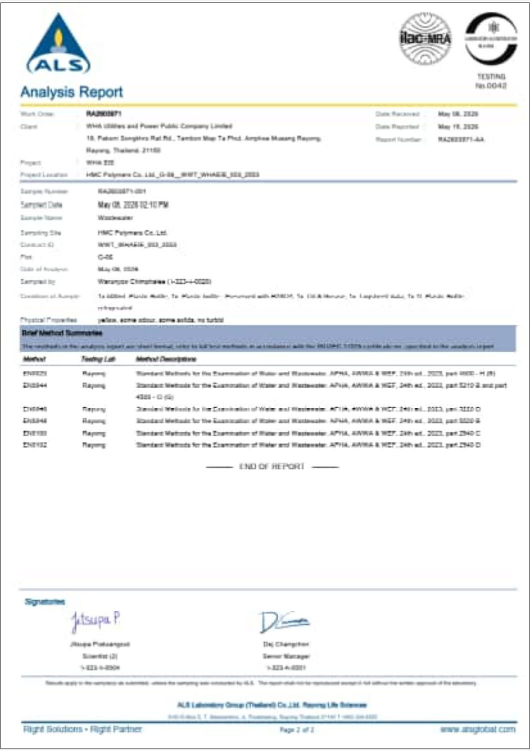
Guideline : Environmental Health Impact Assessment Report of WHA Eastern Industrial Estate (Map Ta Phut)
Comment : Sampling is not included in scope of accreditation ISO/IEC 17025
Key : LOD : Limit of Detection
"<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC17025

Signatories

Jitsupa P
Scientist (2)

Senior Manager

ALS Laboratory Group (Thailand) Co.,Ltd. Rayong Life Science



Analysis Report

TESTING No.0042

Work Order : RA2603971
Client : WHA Utilities and Power Public Company Limited
18, Pakorn Songkhro Rat Rd., Tambon Map Ta Phut, Amphoe Mueang Rayong, Rayong, Thailand, 21150
Date Received : May 08, 2026
Date Reported : May 15, 2026
Report Number : RA2603971-AA
Project : WHA EIE
Project Location : HMC Polymers Co., Ltd._G-08__WWT_WHAEIE_033_2553

Sample Number : RA2603971-001
Sampled Date : May 08, 2026 02:10 PM
Sample Name : Wastewater
Sampling Site : HMC Polymers Co.,Ltd.
Contract ID : WWT_WHAEIE_033_2553
Plot : G-08
Date of Analysis : May 08, 2026
Sampled by : Waranyoo Chimphalee (I-323-I-0020)
Condition of Sample : [illegible]
Physical Properties : yellow, some odour, some solids, no turbid

Brief Method Summaries

[illegible]

Method	Testing Lab	Method Descriptions
EN0023	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0155	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C
EN0152	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

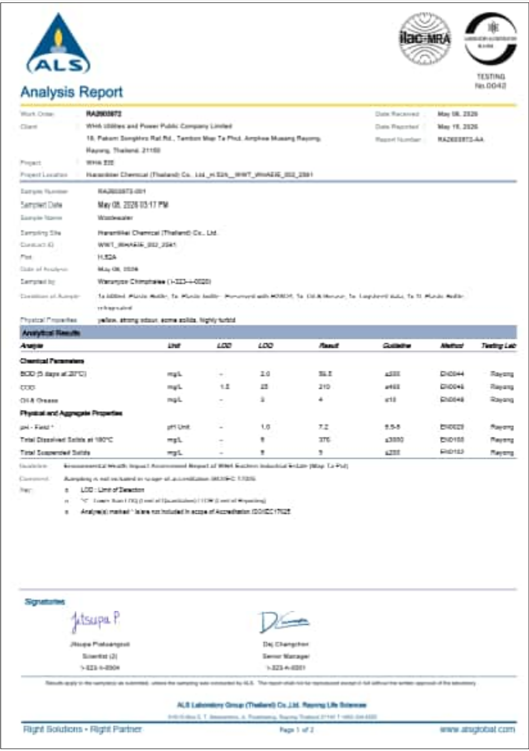
——— END OF REPORT ———

Signatories

Jitsupa P
Scientist (2)

Senior Manager

ALS Laboratory Group (Thailand) Co.,Ltd. Rayong Life Science



Analysis Report

TESTING No.0042

Work Order : RA2603972
Client : WHA Utilities and Power Public Company Limited
18, Pakorn Songkhro Rat Rd., Tambon Map Ta Phut, Amphoe Mueang Rayong, Rayong, Thailand, 21150
Date Received : May 08, 2026
Date Reported : May 15, 2026
Report Number : RA2603972-AA
Project : WHA EIE
Project Location : [illegible] Chemical (Thailand) Co., Ltd._H.52A__WWT_WHAEIE_002_2561

Sample Number : RA2603972-001
Sampled Date : May 08, 2026 03:17 PM
Sample Name : Wastewater
Sampling Site : [illegible] Chemical (Thailand) Co., Ltd.
Contract ID : WWT_WHAEIE_002_2561
Plot : H.52A
Date of Analysis : May 08, 2026
Sampled by : Waranyoo Chimphalee (I-323-I-0020)
Condition of Sample : [illegible]
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	55.5	[illegible]	EN0044	Rayong
COD	mg/L	1.5	25	210	[illegible]	EN0046	Rayong
Oil & Grease	mg/L	-	3	4	≤10	EN0048	Rayong
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.2	5.5-9	EN0023	Rayong
Total Dissolved Solids at 180°C	mg/L	-	5	376	≤3000	EN0155	Rayong
Total Suspended Solids	mg/L	-	5	5	≤200	EN0152	Rayong

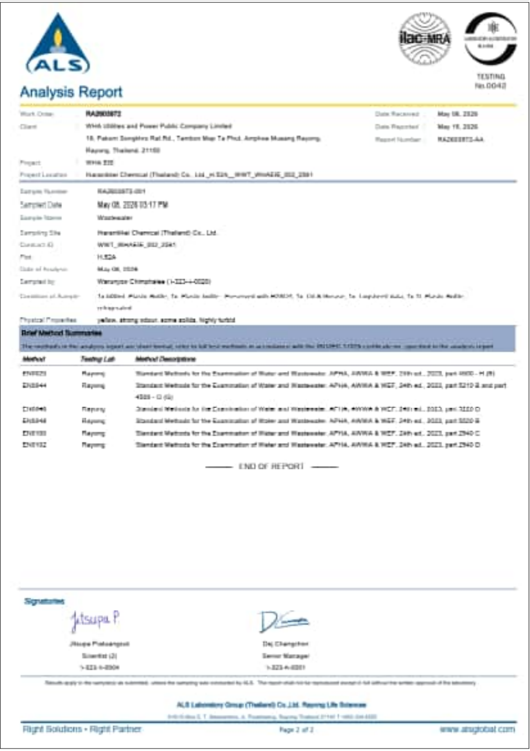
Guideline : Environmental Health Impact Assessment Report of WHA Eastern Industrial Estate (Map Ta Phut)
Comment : Sampling is not included in scope of accreditation ISO/IEC 17025
Key : LOD : Limit of Detection
"<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC17025

Signatories

Jitsupa P
Scientist (2)

Senior Manager

ALS Laboratory Group (Thailand) Co.,Ltd. Rayong Life Science



Analysis Report

TESTING No.0042

Work Order : RA2603972
Client : WHA Utilities and Power Public Company Limited
18, Pakorn Songkhro Rat Rd., Tambon Map Ta Phut, Amphoe Mueang Rayong, Rayong, Thailand, 21150
Date Received : May 08, 2026
Date Reported : May 15, 2026
Report Number : RA2603972-AA
Project : WHA EIE
Project Location : [illegible] Chemical (Thailand) Co., Ltd._H.52A__WWT_WHAEIE_002_2561

Sample Number : RA2603972-001
Sampled Date : May 08, 2026 03:17 PM
Sample Name : Wastewater
Sampling Site : [illegible] Chemical (Thailand) Co., Ltd.
Contract ID : WWT_WHAEIE_002_2561
Plot : H.52A
Date of Analysis : May 08, 2026
Sampled by : Waranyoo Chimphalee (I-323-I-0020)
Condition of Sample : [illegible]
Physical Properties : yellow, strong odour, some solids, highly turbid

Brief Method Summaries

[illegible]

Method	Testing Lab	Method Descriptions
EN0023	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0155	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C
EN0152	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

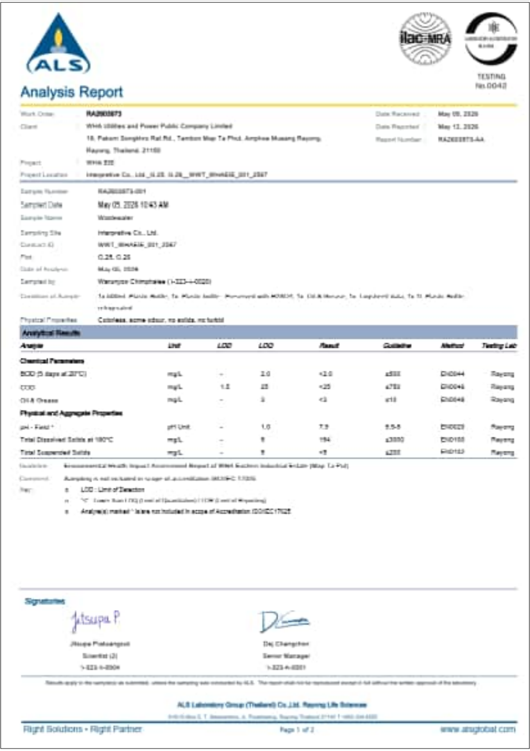
——— END OF REPORT ———

Signatories

Jitsupa P
Scientist (2)

Senior Manager

ALS Laboratory Group (Thailand) Co.,Ltd. Rayong Life Science



Analysis Report

TESTING No.0042

Work Order : RA2603973
Client : WHA Utilities and Power Public Company Limited
18, Pakorn Songkhro Rat Rd., Tambon Map Ta Phut, Amphoe Mueang Rayong, Rayong, Thailand, 21150
Date Received : May 05, 2026
Date Reported : May 12, 2026
Report Number : RA2603973-AA
Project : WHA EIE
Project Location : Interpretive Co., Ltd._G.25, G.26__WWT_WHAEIE_001_2567

Sample Number : RA2603973-001
Sampled Date : May 05, 2026 10:43 AM
Sample Name : Wastewater
Sampling Site : Interpretive Co., Ltd.
Contract ID : WWT_WHAEIE_001_2567
Plot : G.25, G.26
Date of Analysis : May 05, 2026
Sampled by : Waranyoo Chimphalee (I-323-I-0020)
Condition of Sample : [illegible]
Physical Properties : Colorless, some odour, no solids, no 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	Rayong
COD	mg/L	1.5	25	<25	≤750	EN0046	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	EN0048	Rayong
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.9	5.5-9	EN0023	Rayong
Total Dissolved Solids at 180°C	mg/L	-	5	194	≤3000	EN0155	Rayong
Total Suspended Solids	mg/L	-	5	<5	≤200	EN0152	Rayong

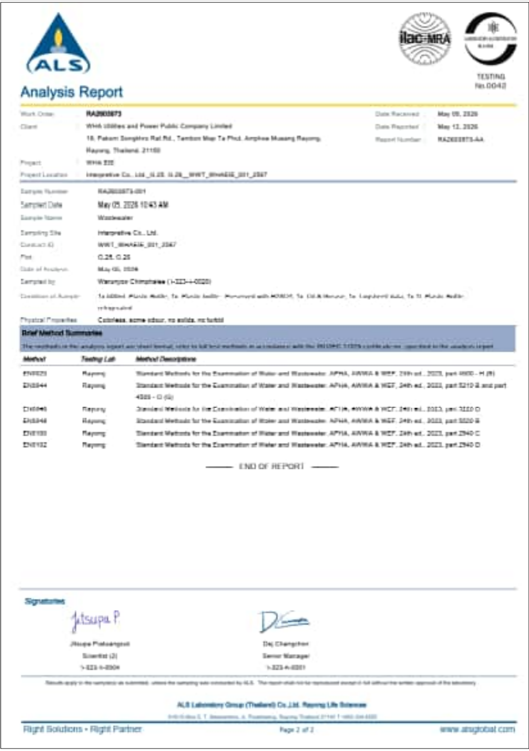
Guideline : Environmental Health Impact Assessment Report of WHA Eastern Industrial Estate (Map Ta Phut)
Comment : Sampling is not included in scope of accreditation ISO/IEC 17025
Key : LOD : Limit of Detection
"<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC17025

Signatories

Jitsupa P
Scientist (2)

Senior Manager

ALS Laboratory Group (Thailand) Co.,Ltd. Rayong Life Science



Analysis Report

TESTING No.0042

Work Order : RA2603973
Client : WHA Utilities and Power Public Company Limited
18, Pakorn Songkhro Rat Rd., Tambon Map Ta Phut, Amphoe Mueang Rayong, Rayong, Thailand, 21150
Date Received : May 05, 2026
Date Reported : May 12, 2026
Report Number : RA2603973-AA
Project : WHA EIE
Project Location : Interpretive Co., Ltd._G.25, G.26__WWT_WHAEIE_001_2567

Sample Number : RA2603973-001
Sampled Date : May 05, 2026 10:43 AM
Sample Name : Wastewater
Sampling Site : Interpretive Co., Ltd.
Contract ID : WWT_WHAEIE_001_2567
Plot : G.25, G.26
Date of Analysis : May 05, 2026
Sampled by : Waranyoo Chimphalee (I-323-I-0020)
Condition of Sample : [illegible]
Physical Properties : Colorless, some odour, no solids, no turbid

Brief Method Summaries

[illegible]

Method	Testing Lab	Method Descriptions
EN0023	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0155	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C
EN0152	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

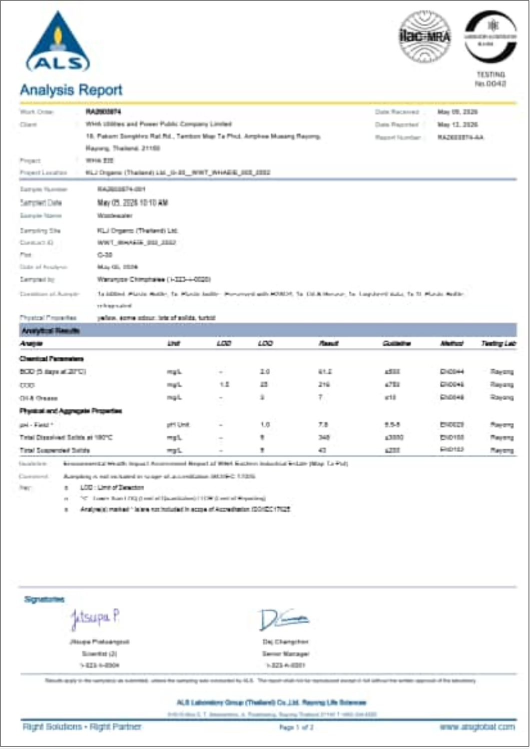
——— END OF REPORT ———

Signatories

Jitsupa P
Scientist (2)

Senior Manager

ALS Laboratory Group (Thailand) Co.,Ltd. Rayong Life Science



Analysis Report

TESTING No.0042

Work Order: RA2603874
Client: WHA Utilities and Power Public Company Limited
18, Pakorn Songkhro Rat Rd., Tambon Map Ta Phut, Amphoe Mueang Rayong, Rayong, Thailand, 21150
Project: WHA EIE
Project Location: KLJ Organic (Thailand) Ltd._G-30__WWT_WHAEIE_003_2552
Date Received: May 05, 2026
Date Reported: May 12, 2026
Report Number: RA2603874-AA

Sample Number: RA2603874-001
Sampled Date: May 05, 2026 10:10 AM
Sample Name: Wastewater
Sampling Site: KLJ Organic (Thailand) Ltd.
Contract ID: WWT_WHAEIE_003_2552
Plot: G-30
Date of Analysis: May 05, 2026
Sampled by: Waranyoo Chimphalee (I-323-4-0020)
Condition of Sample: [illegible]
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	61.2	≤500	EN0044	Rayong
COD	mg/L	1.5	25	216	≤750	EN0046	Rayong
Oil & Grease	mg/L	-	3	7	≤10	EN0048	Rayong
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.8	5.5-9	EN0023	Rayong
Total Dissolved Solids at 180°C	mg/L	-	5	348	≤3000	EN0100	Rayong
Total Suspended Solids	mg/L	-	5	43	≤200	EN0102	Rayong

Guideline: Environmental Health Impact Assessment Report of WHA Eastern Industrial Estate (Map Ta Phut)
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

Jitsupa P.
Jitsupa Pratsangsut
Scientist (2)
I-323-4-0504

Dej Changchon
Senior Manager
I-323-4-0001

ALS Laboratory Group (Thailand) Co.,Ltd. Rayong Life Sciences

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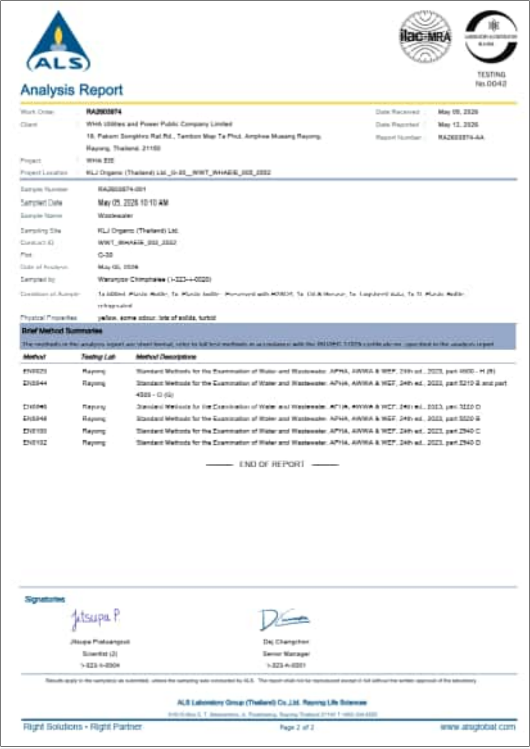

Analysis Report

TESTING No.0042

Work Order: RA2603874
Client: WHA Utilities and Power Public Company Limited
18, Pakorn Songkhro Rat Rd., Tambon Map Ta Phut, Amphoe Mueang Rayong, Rayong, Thailand, 21150
Project: WHA EIE
Project Location: KLJ Organic (Thailand) Ltd._G-30__WWT_WHAEIE_003_2552
Date Received: May 05, 2026
Date Reported: May 12, 2026
Report Number: RA2603874-AA

Sample Number: RA2603874-001
Sampled Date: May 05, 2026 10:10 AM
Sample Name: Wastewater
Sampling Site: KLJ Organic (Thailand) Ltd.
Contract ID: WWT_WHAEIE_003_2552
Plot: G-30
Date of Analysis: May 05, 2026
Sampled by: Waranyoo Chimphalee (I-323-4-0020)
Condition of Sample: [illegible]
Physical Properties: yellow, some odour, lots of solids, turbid

Brief Method Summaries

Method	Testing Lab	Method Descriptions
EN0023	Rayong	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Rayong	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Rayong	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Rayong	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0100	Rayong	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 C
EN0102	Rayong	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

——— END OF REPORT ———

Signatories

Jitsupa P.
Jitsupa Pratsangsut
Scientist (2)
I-323-4-0504

Dej Changchon
Senior Manager
I-323-4-0001

ALS Laboratory Group (Thailand) Co.,Ltd. Rayong Life Sciences

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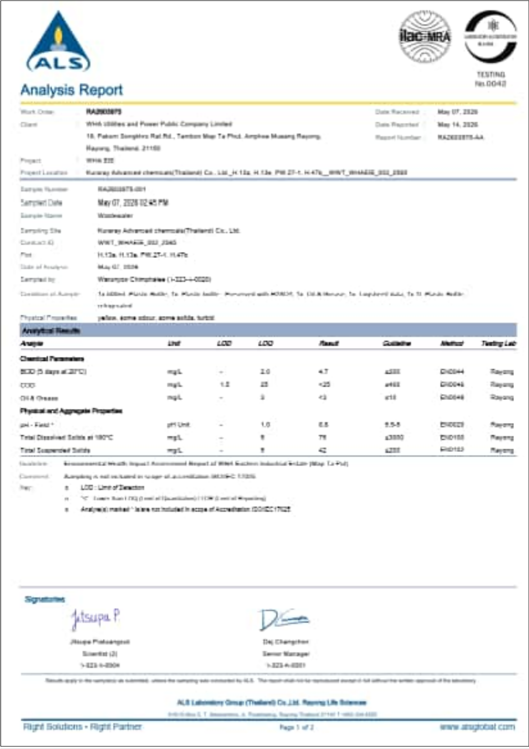

Analysis Report

TESTING No.0042

Work Order: RA2603875
Client: WHA Utilities and Power Public Company Limited
18, Pakorn Songkhro Rat Rd., Tambon Map Ta Phut, Amphoe Mueang Rayong, Rayong, Thailand, 21150
Project: WHA EIE
Project Location: Kuraray Advanced chemicals(Thailand) Co., Ltd._H.13a, H.13e, PW.27-1, H.47b__WWT_WHAEIE_002_2565
Date Received: May 07, 2026
Date Reported: May 14, 2026
Report Number: RA2603875-AA

Sample Number: RA2603875-001
Sampled Date: May 07, 2026 02:45 PM
Sample Name: Wastewater
Sampling Site: Kuraray Advanced chemicals(Thailand) Co., Ltd.
Contract ID: WWT_WHAEIE_002_2565
Plot: H.13a, H.13a, PW.27-1, H.47b
Date of Analysis: May 07, 2026
Sampled by: Waranyoo Chimphalee (I-323-4-0020)
Condition of Sample: [illegible]
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	4.7	≤500	EN0044	Rayong
COD	mg/L	1.5	25	<25	≤400	EN0046	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	EN0048	Rayong
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	6.8	5.5-9	EN0023	Rayong
Total Dissolved Solids at 180°C	mg/L	-	5	78	≤3000	EN0100	Rayong
Total Suspended Solids	mg/L	-	5	42	≤200	EN0102	Rayong

Guideline: Environmental Health Impact Assessment Report of WHA Eastern Industrial Estate (Map Ta Phut)
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

Jitsupa P.
Jitsupa Pratsangsut
Scientist (2)
I-323-4-0504

Dej Changchon
Senior Manager
I-323-4-0001

ALS Laboratory Group (Thailand) Co.,Ltd. Rayong Life Sciences

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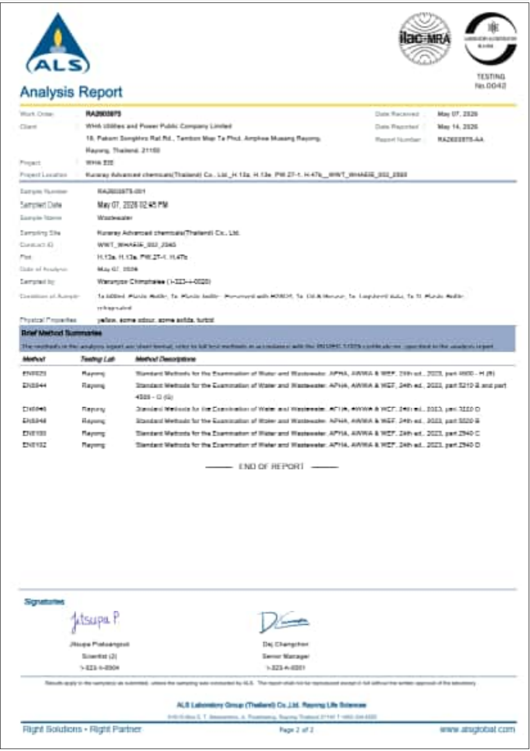

Analysis Report

TESTING No.0042

Work Order: RA2603875
Client: WHA Utilities and Power Public Company Limited
18, Pakorn Songkhro Rat Rd., Tambon Map Ta Phut, Amphoe Mueang Rayong, Rayong, Thailand, 21150
Project: WHA EIE
Project Location: Kuraray Advanced chemicals(Thailand) Co., Ltd._H.13a, H.13e, PW.27-1, H.47b__WWT_WHAEIE_002_2565
Date Received: May 07, 2026
Date Reported: May 14, 2026
Report Number: RA2603875-AA

Sample Number: RA2603875-001
Sampled Date: May 07, 2026 02:45 PM
Sample Name: Wastewater
Sampling Site: Kuraray Advanced chemicals(Thailand) Co., Ltd.
Contract ID: WWT_WHAEIE_002_2565
Plot: H.13a, H.13a, PW.27-1, H.47b
Date of Analysis: May 07, 2026
Sampled by: Waranyoo Chimphalee (I-323-4-0020)
Condition of Sample: [illegible]
Physical Properties: yellow, some odour, some solids, turbid

Brief Method Summaries

Method	Testing Lab	Method Descriptions
EN0023	Rayong	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Rayong	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Rayong	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Rayong	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0100	Rayong	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 C
EN0102	Rayong	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

——— END OF REPORT ———

Signatories

Jitsupa P.
Jitsupa Pratsangsut
Scientist (2)
I-323-4-0504

Dej Changchon
Senior Manager
I-323-4-0001

ALS Laboratory Group (Thailand) Co.,Ltd. Rayong Life Sciences

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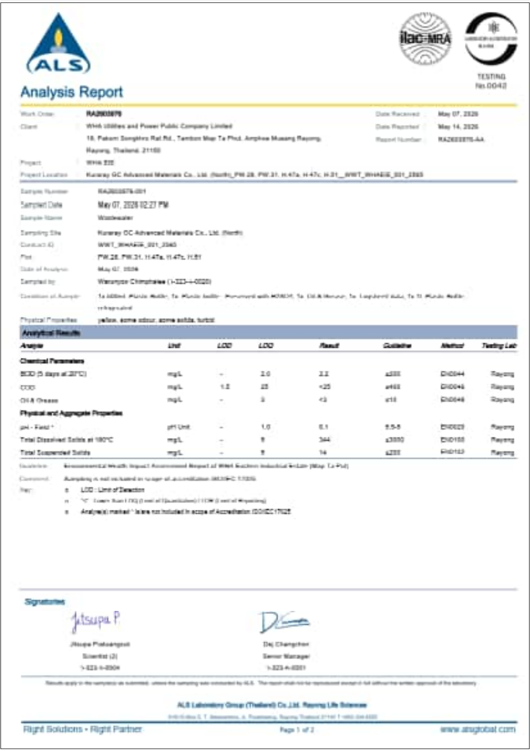

Analysis Report

TESTING No.0042

Work Order: RA2603876
Client: WHA Utilities and Power Public Company Limited
18, Pakorn Songkhro Rat Rd., Tambon Map Ta Phut, Amphoe Mueang Rayong, Rayong, Thailand, 21150
Project: WHA EIE
Project Location: Kuraray GC Advanced Materials Co., Ltd. (North)_PW.28, PW.31, H.47a, H.47c, H.51__WWT_WHAEIE_001_2565
Date Received: May 07, 2026
Date Reported: May 14, 2026
Report Number: RA2603876-AA

Sample Number: RA2603876-001
Sampled Date: May 07, 2026 02:27 PM
Sample Name: Wastewater
Sampling Site: Kuraray GC Advanced Materials Co., Ltd. (North)
Contract ID: WWT_WHAEIE_001_2565
Plot: PW.28, PW.31, H.47a, H.47c, H.51
Date of Analysis: May 07, 2026
Sampled by: Waranyoo Chimphalee (I-323-4-0020)
Condition of Sample: [illegible]
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	2.2	≤500	EN0044	Rayong
COD	mg/L	1.5	25	<25	≤400	EN0046	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	EN0048	Rayong
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	8.1	5.5-9	EN0023	Rayong
Total Dissolved Solids at 180°C	mg/L	-	5	344	≤3000	EN0100	Rayong
Total Suspended Solids	mg/L	-	5	14	≤200	EN0102	Rayong

Guideline: Environmental Health Impact Assessment Report of WHA Eastern Industrial Estate (Map Ta Phut)
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

Jitsupa P.
Jitsupa Pratsangsut
Scientist (2)
I-323-4-0504

Dej Changchon
Senior Manager
I-323-4-0001

ALS Laboratory Group (Thailand) Co.,Ltd. Rayong Life Sciences

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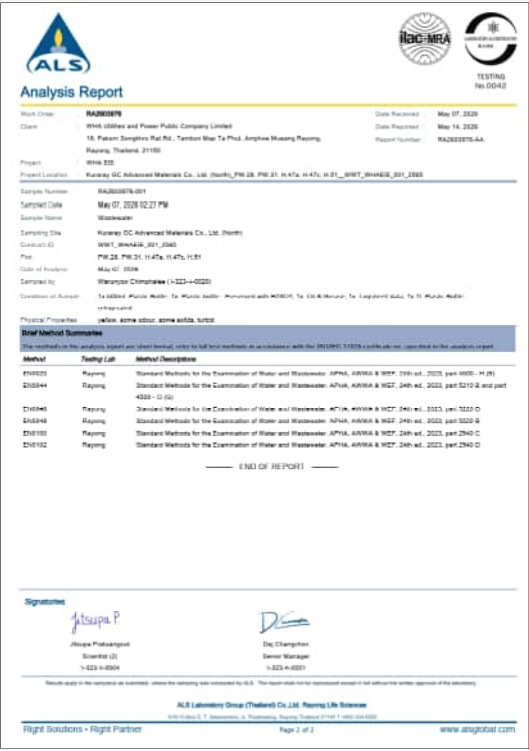

Analysis Report

TESTING No.0042

Work Order: RA2603876
Client: WHA Utilities and Power Public Company Limited
18, Pakorn Songkhro Rat Rd., Tambon Map Ta Phut, Amphoe Mueang Rayong, Rayong, Thailand, 21150
Project: WHA EIE
Project Location: Kuraray GC Advanced Materials Co., Ltd. (North)_PW.28, PW.31, H.47a, H.47c, H.51__WWT_WHAEIE_001_2565
Date Received: May 07, 2026
Date Reported: May 14, 2026
Report Number: RA2603876-AA

Sample Number: RA2603876-001
Sampled Date: May 07, 2026 02:27 PM
Sample Name: Wastewater
Sampling Site: Kuraray GC Advanced Materials Co., Ltd. (North)
Contract ID: WWT_WHAEIE_001_2565
Plot: PW.28, PW.31, H.47a, H.47c, H.51
Date of Analysis: May 07, 2026
Sampled by: Waranyoo Chimphalee (I-323-4-0020)
Condition of Sample: [illegible]
Physical Properties: yellow, some odour, some solids, turbid

Brief Method Summaries

Method	Testing Lab	Method Descriptions
EN0023	Rayong	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Rayong	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Rayong	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Rayong	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0100	Rayong	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 C
EN0102	Rayong	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

——— END OF REPORT ———

Signatories

Jitsupa P.
Jitsupa Pratsangsut
Scientist (2)
I-323-4-0504

Dej Changchon
Senior Manager
I-323-4-0001

ALS Laboratory Group (Thailand) Co.,Ltd. Rayong Life Sciences

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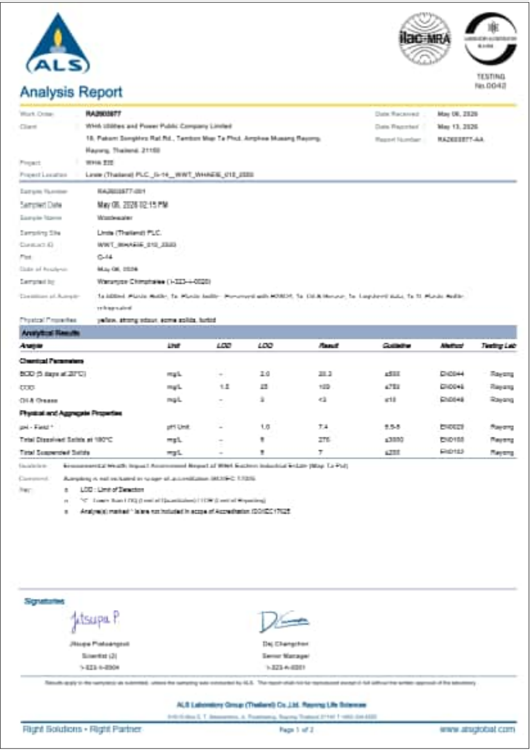

Analysis Report

TESTING No.0042

Work Order: RA2603877
Client: WHA Utilities and Power Public Company Limited
18, Pakorn Songkhro Rat Rd., Tambon Map Ta Phut, Amphoe Mueang Rayong, Rayong, Thailand, 21150
Project: WHA EIE
Project Location: Linde (Thailand) PLC._G-14__WWT_WHAEIE_010_2560
Date Received: May 06, 2026
Date Reported: May 13, 2026
Report Number: RA2603877-AA

Sample Number: RA2603877-001
Sampled Date: May 06, 2026 02:15 PM
Sample Name: Wastewater
Sampling Site: Linde (Thailand) PLC.
Contract ID: WWT_WHAEIE_010_2560
Plot: G-14
Date of Analysis: May 06, 2026
Sampled by: Waranyoo Chimphalee (I-323-4-0020)
Condition of Sample: [illegible]
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	20.3	≤500	EN0044	Rayong
COD	mg/L	1.5	25	109	≤750	EN0046	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	EN0048	Rayong
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.4	5.5-9	EN0023	Rayong
Total Dissolved Solids at 180°C	mg/L	-	5	276	≤3000	EN0100	Rayong
Total Suspended Solids	mg/L	-	5	7	≤200	EN0102	Rayong

Guideline: Environmental Health Impact Assessment Report of WHA Eastern Industrial Estate (Map Ta Phut)
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

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ALS Laboratory Group (Thailand) Co.,Ltd. Rayong Life Sciences

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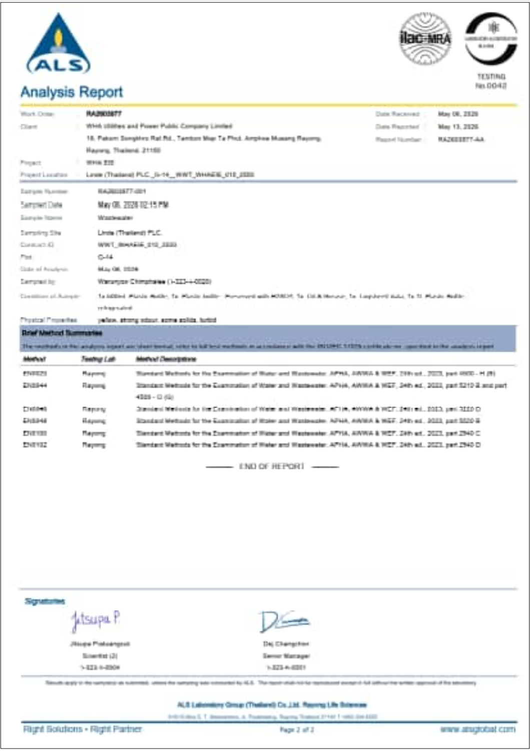

Analysis Report

TESTING No.0042

Work Order: RA2603877
Client: WHA Utilities and Power Public Company Limited
18, Pakorn Songkhro Rat Rd., Tambon Map Ta Phut, Amphoe Mueang Rayong, Rayong, Thailand, 21150
Project: WHA EIE
Project Location: Linde (Thailand) PLC._G-14__WWT_WHAEIE_010_2560
Date Received: May 06, 2026
Date Reported: May 13, 2026
Report Number: RA2603877-AA

Sample Number: RA2603877-001
Sampled Date: May 06, 2026 02:15 PM
Sample Name: Wastewater
Sampling Site: Linde (Thailand) PLC.
Contract ID: WWT_WHAEIE_010_2560
Plot: G-14
Date of Analysis: May 06, 2026
Sampled by: Waranyoo Chimphalee (I-323-4-0020)
Condition of Sample: [illegible]
Physical Properties: yellow, strong odour, some solids, turbid

Brief Method Summaries

Method	Testing Lab	Method Descriptions
EN0023	Rayong	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Rayong	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Rayong	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Rayong	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0100	Rayong	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 C
EN0102	Rayong	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

——— END OF REPORT ———

Signatories

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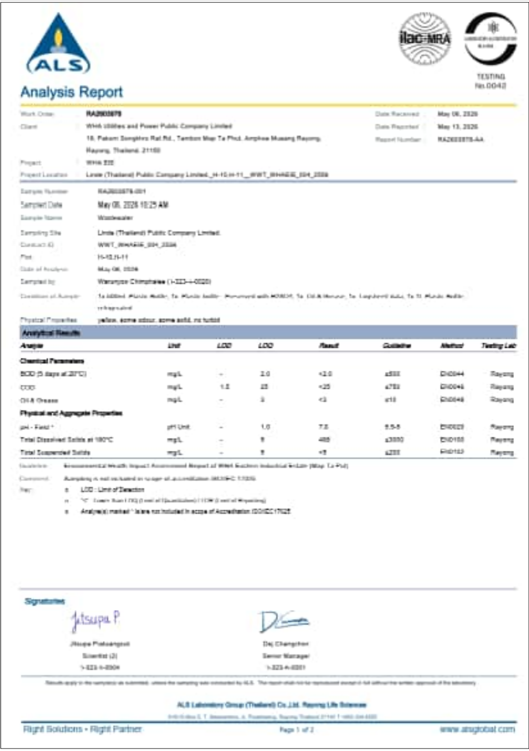

Analysis Report

TESTING No.0042

Work Order: RA2603878
Client: WHA Utilities and Power Public Company Limited
18, Pakorn Songkhro Rat Rd., Tambon Map Ta Phut, Amphoe Mueang Rayong, Rayong, Thailand, 21150
Project: WHA EIE
Project Location: Linde (Thailand) Public Company Limited_H-10,H-11__WWT_WHAEIE_004_2556
Date Received: May 06, 2026
Date Reported: May 13, 2026
Report Number: RA2603878-AA

Sample Number: RA2603878-001
Sampled Date: May 06, 2026 10:25 AM
Sample Name: Wastewater
Sampling Site: Linde (Thailand) Public Company Limited.
Contract ID: WWT_WHAEIE_004_2556
Plot: H-10,H-11
Date of Analysis: May 06, 2026
Sampled by: Waranyoo Chimphalee (I-323-4-0020)
Condition of Sample: [illegible]
Physical Properties: yellow, some odour, some solid, no 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	Rayong
COD	mg/L	1.5	25	<25	≤750	EN0046	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	EN0048	Rayong
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.8	5.5-9	EN0023	Rayong
Total Dissolved Solids at 180°C	mg/L	-	5	488	≤3000	EN0100	Rayong
Total Suspended Solids	mg/L	-	5	<5	≤200	EN0102	Rayong

Guideline: Environmental Health Impact Assessment Report of WHA Eastern Industrial Estate (Map Ta Phut)
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

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I-323-4-0504

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ALS Laboratory Group (Thailand) Co.,Ltd. Rayong Life Sciences

Analysis Report

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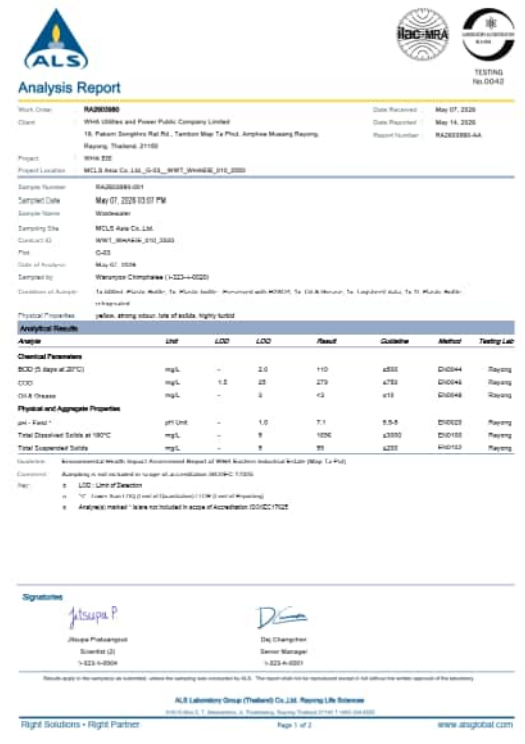
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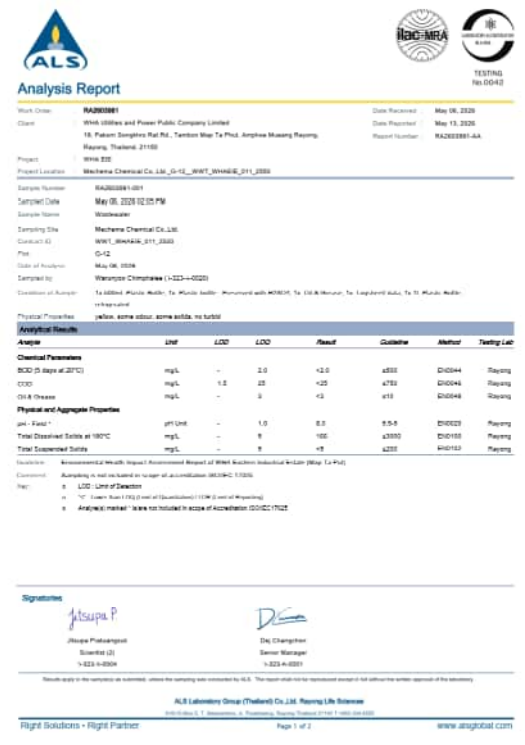
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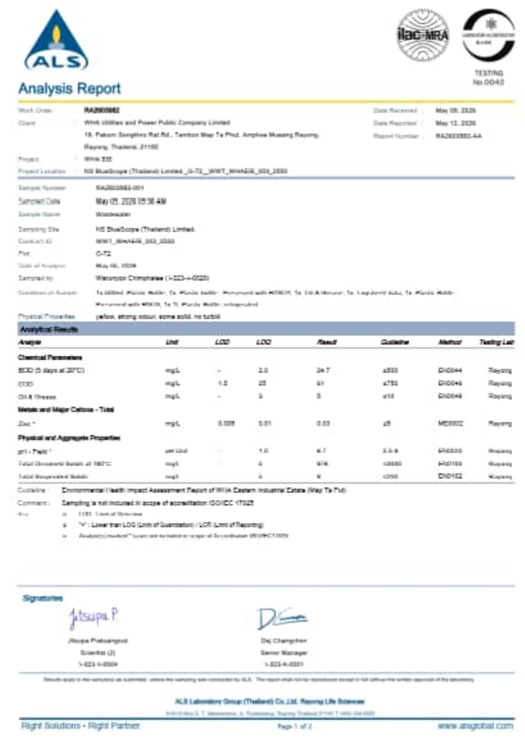
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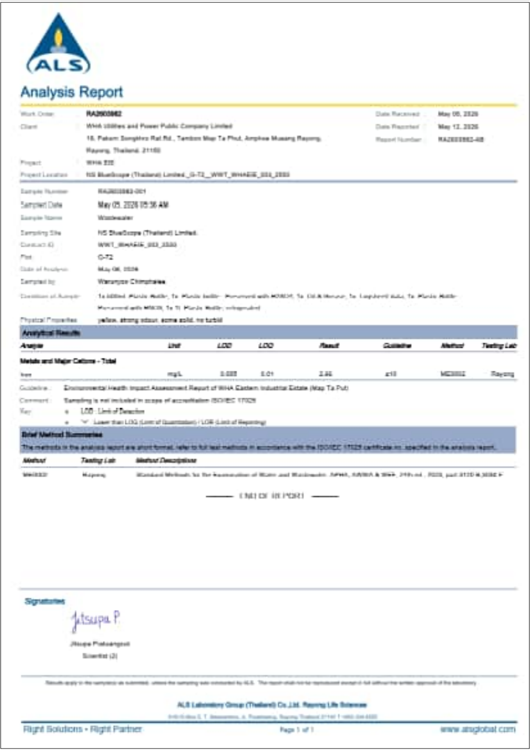
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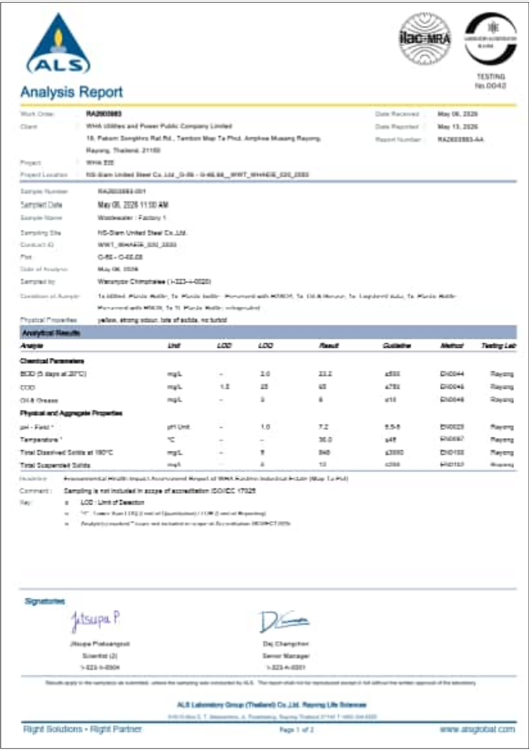
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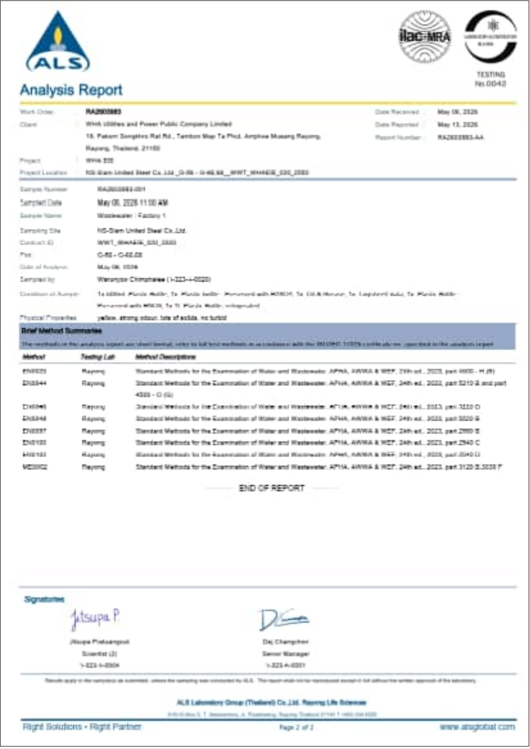
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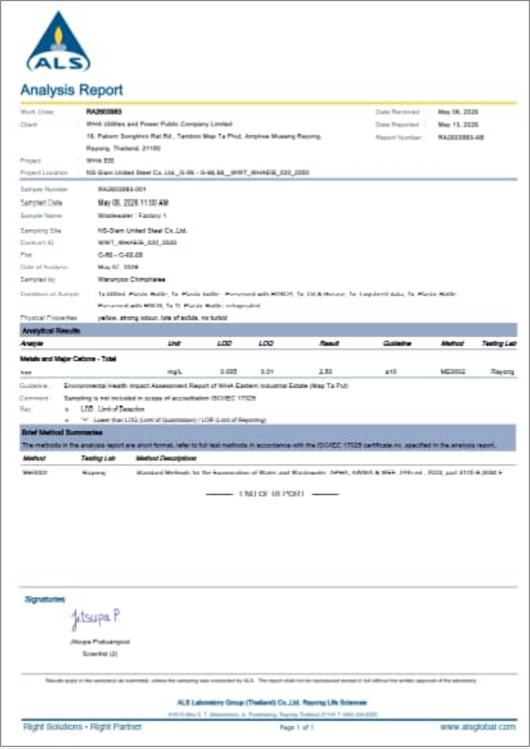
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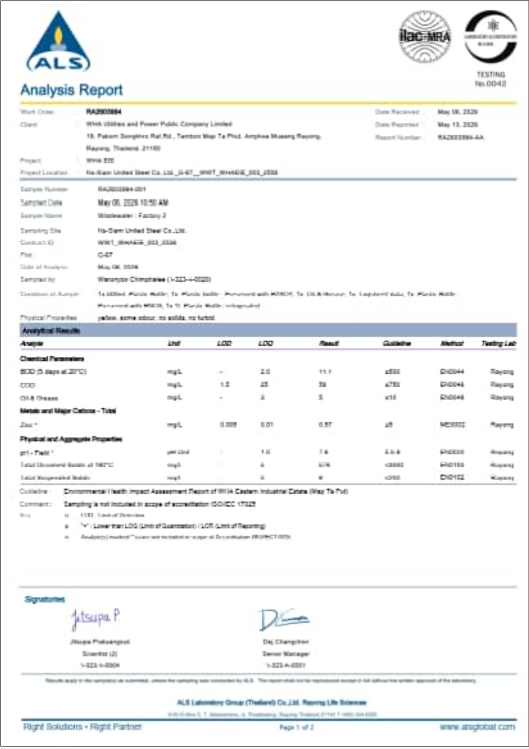
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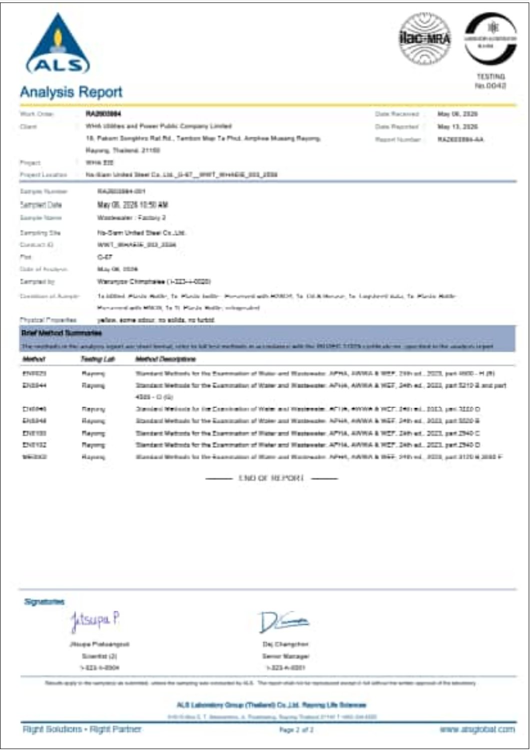
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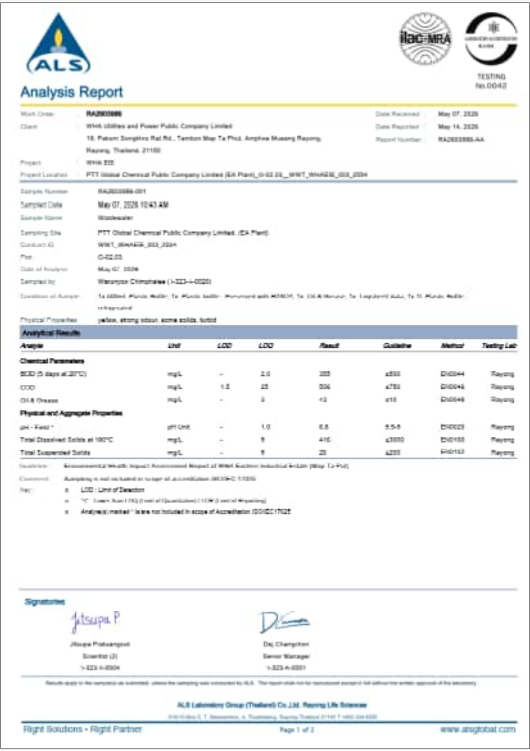
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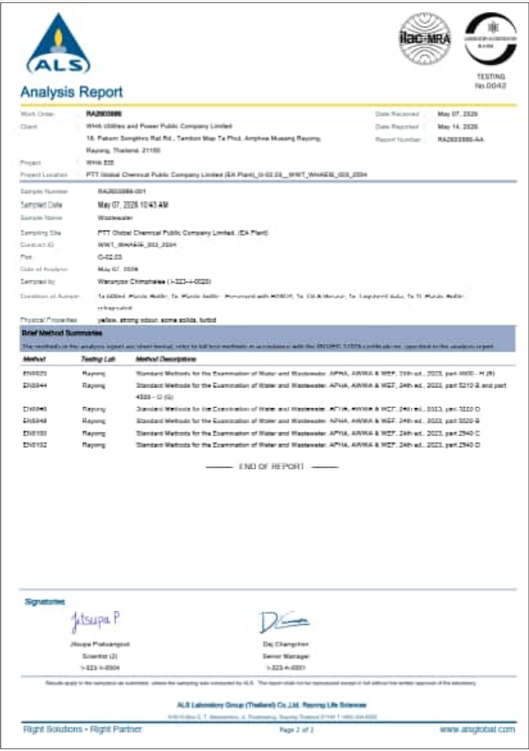
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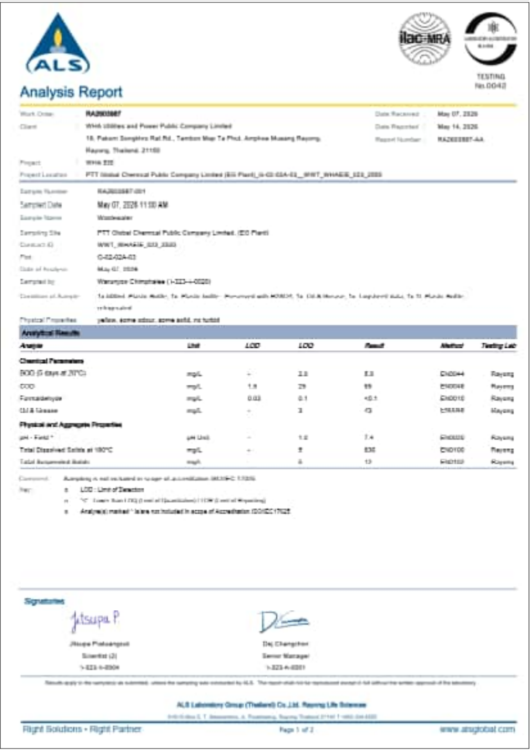
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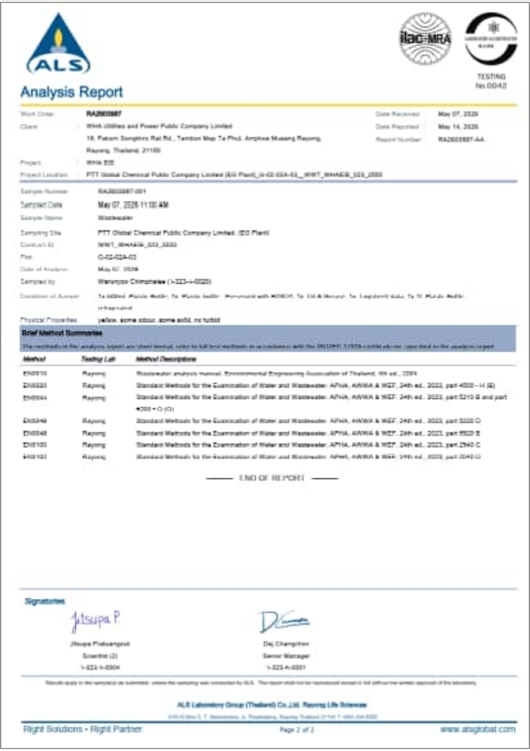
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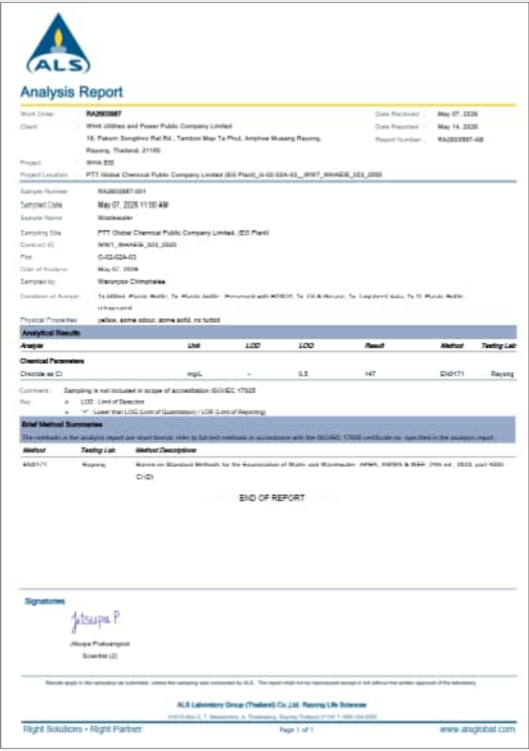
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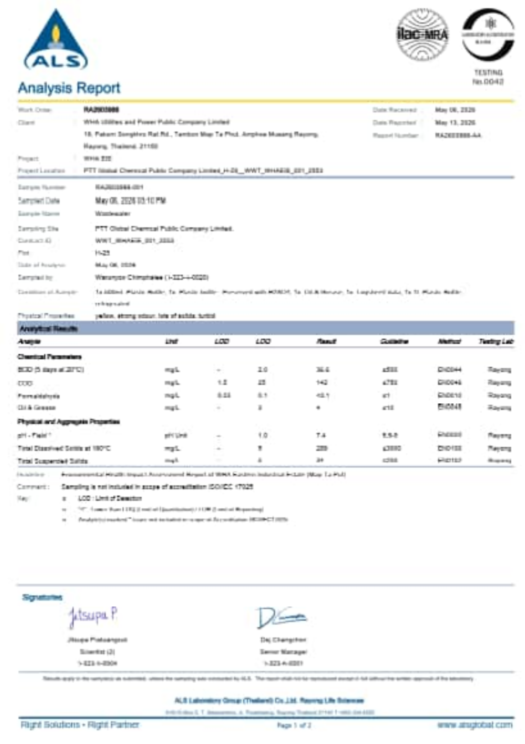

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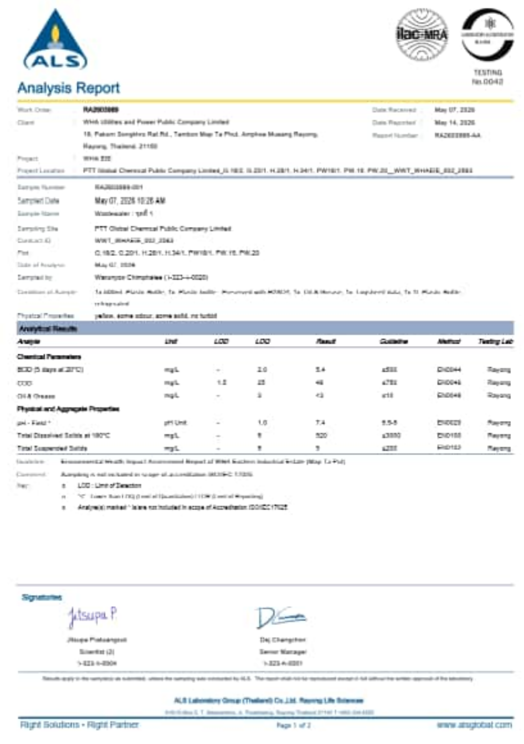

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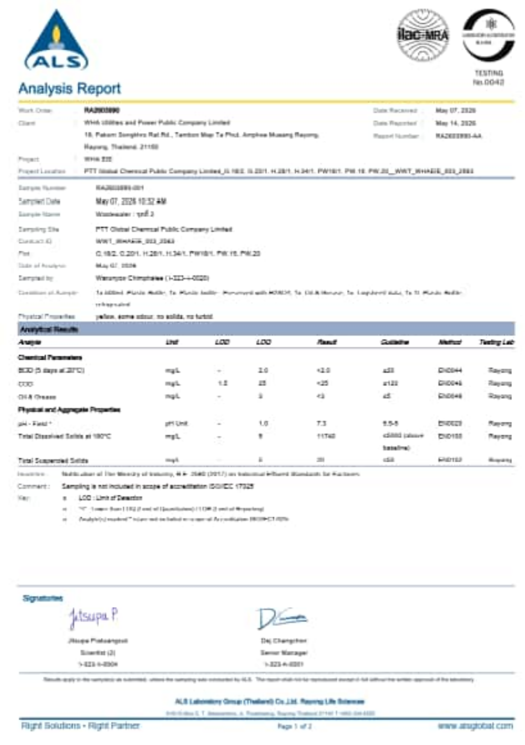

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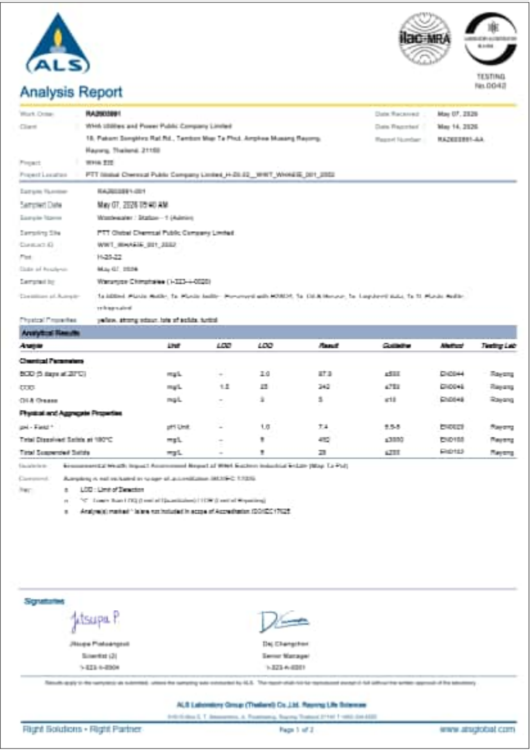

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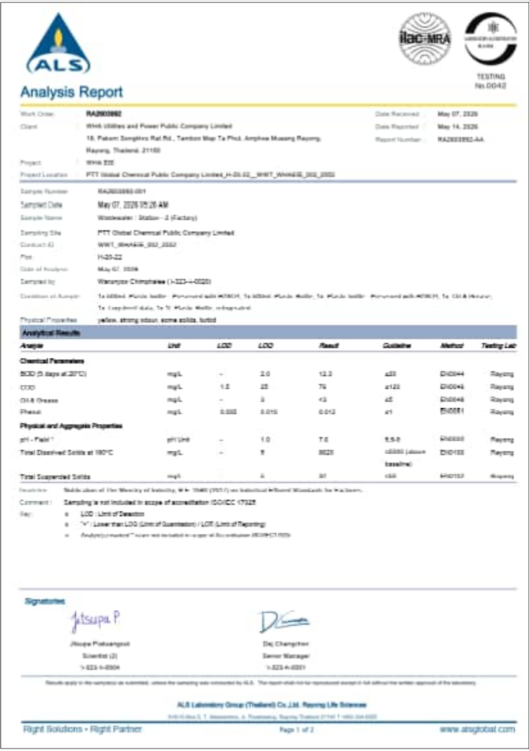

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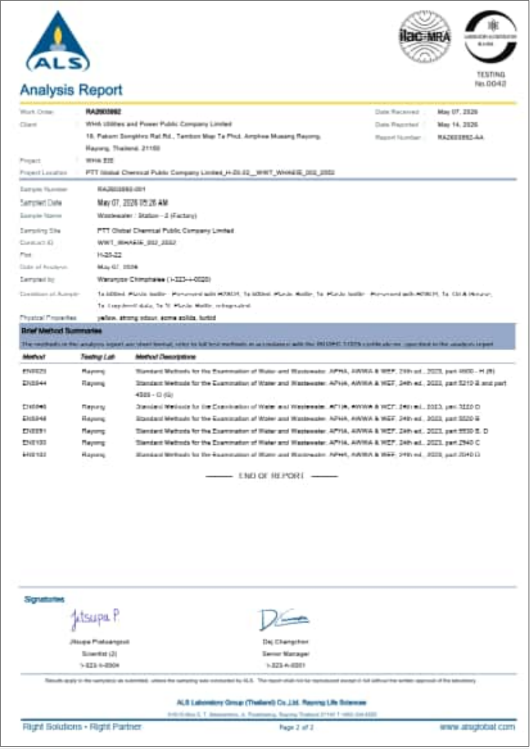

Analysis Report

TESTING No.0042

Work Order: RA2603892
Client: WHA Utilities and Power Public Company Limited
18, Pakorn Songkhro Rat Rd., Tambon Map Ta Phut, Amphoe Mueang Rayong, Rayong, Thailand, 21150
Date Received: May 07, 2026
Date Reported: May 14, 2026
Report Number: RA2603892-AA
Project: WHA EIE
Project Location: PTT Global Chemical Public Company Limited_H-20-22__WWT_WHAEIE_002_2552

Sample Number: RA2603892-001
Sampled Date: May 07, 2026 05:26 AM
Sample Name: Wastewater : Station - 2 (Factory)
Sampling Site: PTT Global Chemical Public Company Limited
Contact ID: WWT_WHAEIE_002_2552
Plot: H-20-22
Date of Analysis: May 07, 2026
Sampled by: Waranyoo Chimphalee (1-323-1-0020)
Condition of Sample: [illegible]
Physical Properties: yellow, strong odour, some solids, turbid

Brief Method Summaries

Method	Testing Lab	Method Descriptions
EN0023	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0051	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5530 B, D
EN0100	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C
EN0102	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

—— END OF REPORT ——

Signatories
Jitsupa P.
Jitsupa Plaksangpol, Scientist (2)
Daj Changchon, Senior Manager

ALS Laboratory Group (Thailand) Co.,Ltd. Rayong Life Sciences
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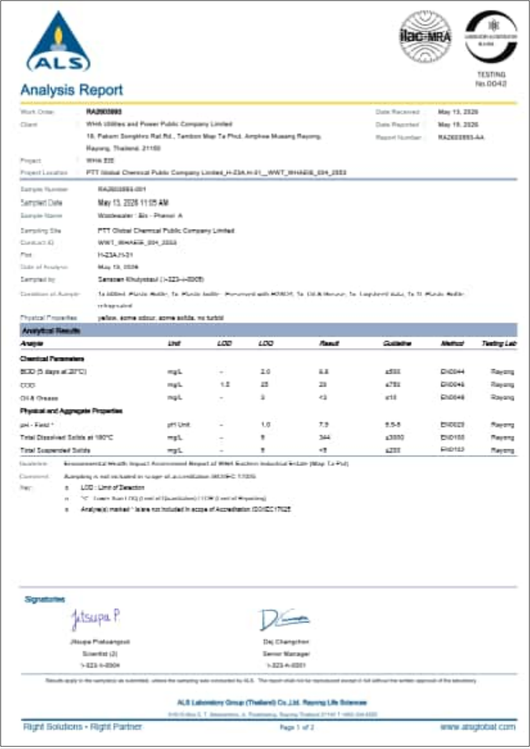

Analysis Report

TESTING No.0042

Work Order: RA2603893
Client: WHA Utilities and Power Public Company Limited
18, Pakorn Songkhro Rat Rd., Tambon Map Ta Phut, Amphoe Mueang Rayong, Rayong, Thailand, 21150
Date Received: May 13, 2026
Date Reported: May 18, 2026
Report Number: RA2603893-AA
Project: WHA EIE
Project Location: PTT Global Chemical Public Company Limited_H-23A,H-31__WWT_WHAEIE_004_2553

Sample Number: RA2603893-001
Sampled Date: May 13, 2026 11:05 AM
Sample Name: Wastewater : Bis - Phenol A
Sampling Site: PTT Global Chemical Public Company Limited
Contact ID: WWT_WHAEIE_004_2553
Plot: H-23A,H-31
Date of Analysis: May 13, 2026
Sampled by: Sanasan Khutyotsai (1-323-1-0005)
Condition of Sample: [illegible]
Physical Properties: yellow, some odour, some solids, no 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	Rayong
COD	mg/L	1.5	25	23	≤750	EN0046	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	EN0048	Rayong
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.3	5.5-9	EN0023	Rayong
Total Dissolved Solids at 180°C	mg/L	-	5	344	≤3000	EN0100	Rayong
Total Suspended Solids	mg/L	-	5	<5	≤200	EN0102	Rayong

Guideline: Environmental Health Impact Assessment Report of WHA Eastern Industrial Estate (Map Ta Phut)
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

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Daj Changchon, Senior Manager

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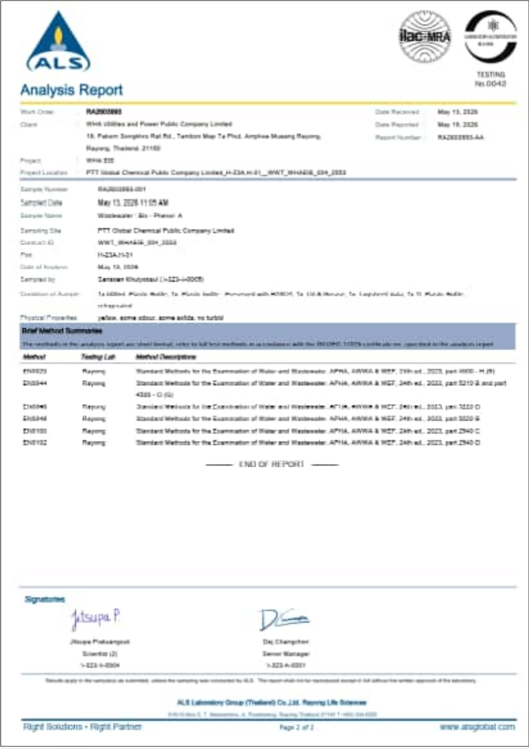

Analysis Report

TESTING No.0042

Work Order: RA2603893
Client: WHA Utilities and Power Public Company Limited
18, Pakorn Songkhro Rat Rd., Tambon Map Ta Phut, Amphoe Mueang Rayong, Rayong, Thailand, 21150
Date Received: May 13, 2026
Date Reported: May 18, 2026
Report Number: RA2603893-AA
Project: WHA EIE
Project Location: PTT Global Chemical Public Company Limited_H-23A,H-31__WWT_WHAEIE_004_2553

Sample Number: RA2603893-001
Sampled Date: May 13, 2026 11:05 AM
Sample Name: Wastewater : Bis - Phenol A
Sampling Site: PTT Global Chemical Public Company Limited
Contact ID: WWT_WHAEIE_004_2553
Plot: H-23A,H-31
Date of Analysis: May 13, 2026
Sampled by: Sanasan Khutyotsai (1-323-1-0005)
Condition of Sample: [illegible]
Physical Properties: yellow, some odour, some solids, no turbid

Brief Method Summaries

Method	Testing Lab	Method Descriptions
EN0023	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0100	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C
EN0102	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

—— END OF REPORT ——

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Jitsupa Plaksangpol, Scientist (2)
Daj Changchon, Senior Manager

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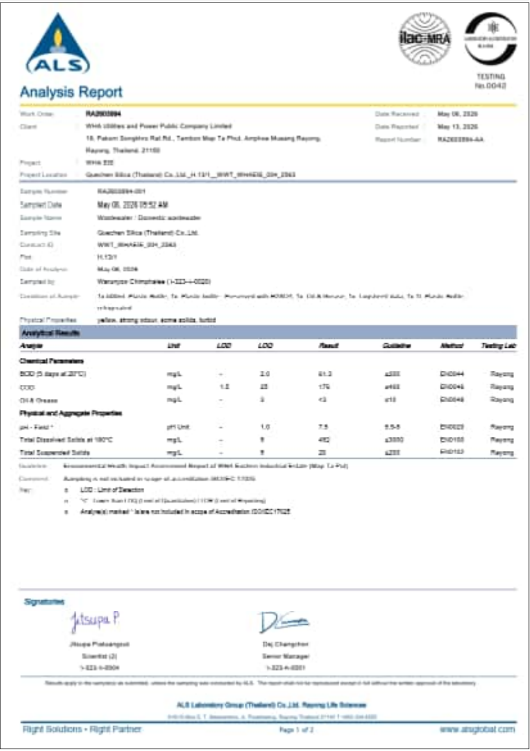

Analysis Report

TESTING No.0042

Work Order: RA2603894
Client: WHA Utilities and Power Public Company Limited
18, Pakorn Songkhro Rat Rd., Tambon Map Ta Phut, Amphoe Mueang Rayong, Rayong, Thailand, 21150
Date Received: May 08, 2026
Date Reported: May 13, 2026
Report Number: RA2603894-AA
Project: WHA EIE
Project Location: Quechen Silica (Thailand) Co.,Ltd._H.13/1__WWT_WHAEIE_004_2563

Sample Number: RA2603894-001
Sampled Date: May 08, 2026 09:52 AM
Sample Name: Wastewater : Domestic wastewater
Sampling Site: Quechen Silica (Thailand) Co.,Ltd.
Contact ID: WWT_WHAEIE_004_2563
Plot: H.13/1
Date of Analysis: May 08, 2026
Sampled by: Waranyoo Chimphalee (1-323-1-0020)
Condition of Sample: [illegible]
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	61.2	≤500	EN0044	Rayong
COD	mg/L	1.5	25	176	≤750	EN0046	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	EN0048	Rayong
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.5	5.5-9	EN0023	Rayong
Total Dissolved Solids at 180°C	mg/L	-	5	482	≤3000	EN0100	Rayong
Total Suspended Solids	mg/L	-	5	20	≤200	EN0102	Rayong

Guideline: Environmental Health Impact Assessment Report of WHA Eastern Industrial Estate (Map Ta Phut)
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
Jitsupa P.
Jitsupa Plaksangpol, Scientist (2)
Daj Changchon, Senior Manager

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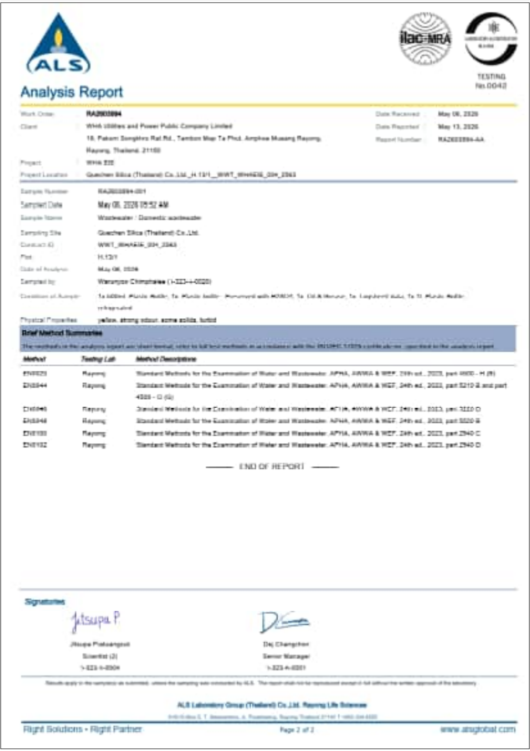

Analysis Report

TESTING No.0042

Work Order: RA2603894
Client: WHA Utilities and Power Public Company Limited
18, Pakorn Songkhro Rat Rd., Tambon Map Ta Phut, Amphoe Mueang Rayong, Rayong, Thailand, 21150
Date Received: May 08, 2026
Date Reported: May 13, 2026
Report Number: RA2603894-AA
Project: WHA EIE
Project Location: Quechen Silica (Thailand) Co.,Ltd._H.13/1__WWT_WHAEIE_004_2563

Sample Number: RA2603894-001
Sampled Date: May 08, 2026 09:52 AM
Sample Name: Wastewater : Domestic wastewater
Sampling Site: Quechen Silica (Thailand) Co.,Ltd.
Contact ID: WWT_WHAEIE_004_2563
Plot: H.13/1
Date of Analysis: May 08, 2026
Sampled by: Waranyoo Chimphalee (1-323-1-0020)
Condition of Sample: [illegible]
Physical Properties: yellow, strong odour, some solids, turbid

Brief Method Summaries

Method	Testing Lab	Method Descriptions
EN0023	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0100	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C
EN0102	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

—— END OF REPORT ——

Signatories
Jitsupa P.
Jitsupa Plaksangpol, Scientist (2)
Daj Changchon, Senior Manager

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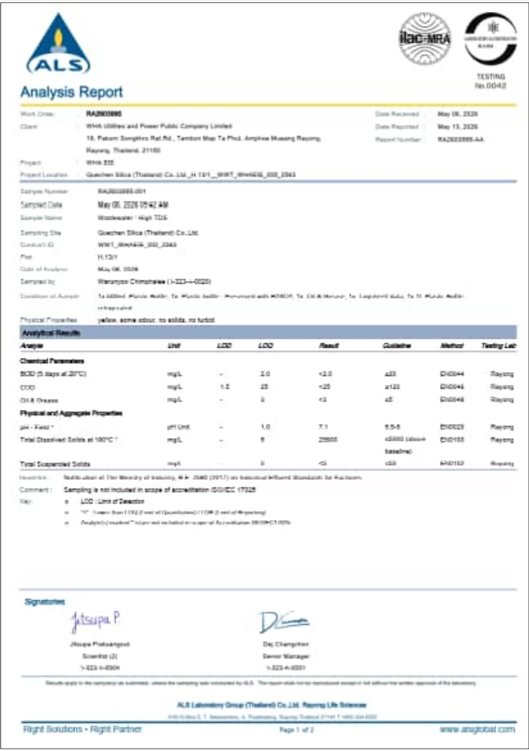

Analysis Report

TESTING No.0042

Work Order: RA2603895
Client: WHA Utilities and Power Public Company Limited
18, Pakorn Songkhro Rat Rd., Tambon Map Ta Phut, Amphoe Mueang Rayong, Rayong, Thailand, 21150
Date Received: May 08, 2026
Date Reported: May 13, 2026
Report Number: RA2603895-AA
Project: WHA EIE
Project Location: Quechen Silica (Thailand) Co.,Ltd._H.13/1__WWT_WHAEIE_003_2563

Sample Number: RA2603895-001
Sampled Date: May 08, 2026 09:42 AM
Sample Name: Wastewater : High TDS
Sampling Site: Quechen Silica (Thailand) Co.,Ltd.
Contact ID: WWT_WHAEIE_003_2563
Plot: H.13/1
Date of Analysis: May 08, 2026
Sampled by: Waranyoo Chimphalee (1-323-1-0020)
Condition of Sample: [illegible]
Physical Properties: yellow, some odour, no solids, no 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	≤20	EN0044	Rayong
COD	mg/L	1.5	25	<25	≤120	EN0046	Rayong
Oil & Grease	mg/L	-	3	<3	≤5	EN0048	Rayong
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.1	5.5-9	EN0023	Rayong
Total Dissolved Solids at 180°C *	mg/L	-	5	25500	≤5000 (above baseline)	EN0100	Rayong
Total Suspended Solids	mg/L	-	5	<5	≤50	EN0102	Rayong

Guideline: Notification of The Ministry of Industry, B.E. 2560 (2017) on Industrial Effluent Standards for Factories
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

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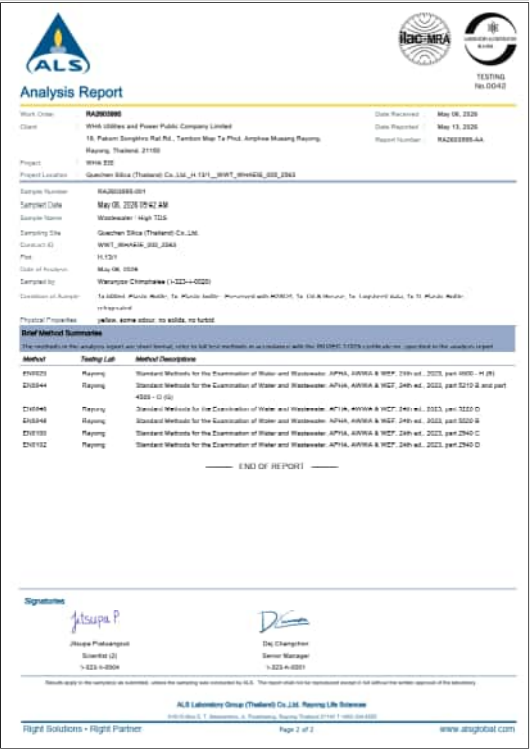

Analysis Report

TESTING No.0042

Work Order: RA2603895
Client: WHA Utilities and Power Public Company Limited
18, Pakorn Songkhro Rat Rd., Tambon Map Ta Phut, Amphoe Mueang Rayong, Rayong, Thailand, 21150
Date Received: May 08, 2026
Date Reported: May 13, 2026
Report Number: RA2603895-AA
Project: WHA EIE
Project Location: Quechen Silica (Thailand) Co.,Ltd._H.13/1__WWT_WHAEIE_003_2563

Sample Number: RA2603895-001
Sampled Date: May 08, 2026 09:42 AM
Sample Name: Wastewater : High TDS
Sampling Site: Quechen Silica (Thailand) Co.,Ltd.
Contact ID: WWT_WHAEIE_003_2563
Plot: H.13/1
Date of Analysis: May 08, 2026
Sampled by: Waranyoo Chimphalee (1-323-1-0020)
Condition of Sample: [illegible]
Physical Properties: yellow, some odour, no solids, no turbid

Brief Method Summaries

Method	Testing Lab	Method Descriptions
EN0023	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0100	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C
EN0102	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

—— END OF REPORT ——

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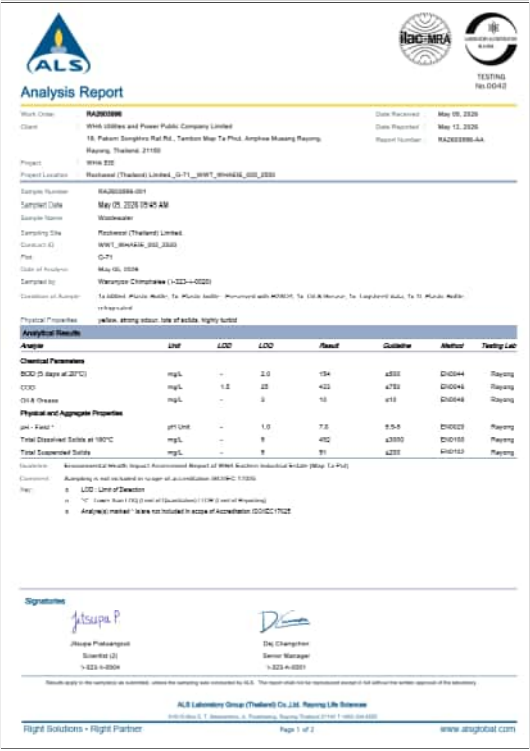

Analysis Report

TESTING No.0042

Work Order: RA2603896
Client: WHA Utilities and Power Public Company Limited
18, Pakorn Songkhro Rat Rd., Tambon Map Ta Phut, Amphoe Mueang Rayong, Rayong, Thailand, 21150
Date Received: May 05, 2026
Date Reported: May 12, 2026
Report Number: RA2603896-AA
Project: WHA EIE
Project Location: Rockwool (Thailand) Limited_G-71__WWT_WHAEIE_002_2550

Sample Number: RA2603896-001
Sampled Date: May 05, 2026 09:45 AM
Sample Name: Wastewater
Sampling Site: Rockwool (Thailand) Limited
Contact ID: WWT_WHAEIE_002_2550
Plot: G-71
Date of Analysis: May 05, 2026
Sampled by: Waranyoo Chimphalee (1-323-1-0020)
Condition of Sample: [illegible]
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	154	≤500	EN0044	Rayong
COD	mg/L	1.5	25	423	≤750	EN0046	Rayong
Oil & Grease	mg/L	-	3	10	≤10	EN0048	Rayong
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.8	5.5-9	EN0023	Rayong
Total Dissolved Solids at 180°C	mg/L	-	5	492	≤3000	EN0100	Rayong
Total Suspended Solids	mg/L	-	5	91	≤200	EN0102	Rayong

Guideline: Environmental Health Impact Assessment Report of WHA Eastern Industrial Estate (Map Ta Phut)
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
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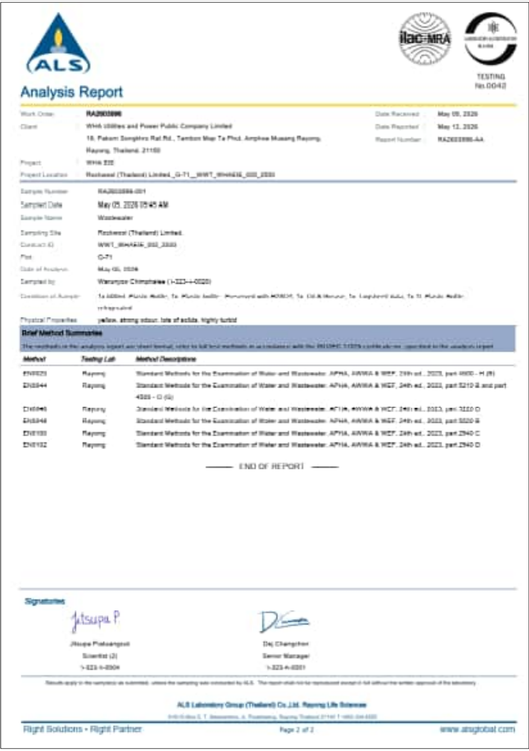

Analysis Report

TESTING No.0042

Work Order: RA2603896
Client: WHA Utilities and Power Public Company Limited
18, Pakorn Songkhro Rat Rd., Tambon Map Ta Phut, Amphoe Mueang Rayong, Rayong, Thailand, 21150
Date Received: May 05, 2026
Date Reported: May 12, 2026
Report Number: RA2603896-AA
Project: WHA EIE
Project Location: Rockwool (Thailand) Limited_G-71__WWT_WHAEIE_002_2550

Sample Number: RA2603896-001
Sampled Date: May 05, 2026 09:45 AM
Sample Name: Wastewater
Sampling Site: Rockwool (Thailand) Limited
Contact ID: WWT_WHAEIE_002_2550
Plot: G-71
Date of Analysis: May 05, 2026
Sampled by: Waranyoo Chimphalee (1-323-1-0020)
Condition of Sample: [illegible]
Physical Properties: yellow, strong odour, lots of solids, highly turbid

Brief Method Summaries

Method	Testing Lab	Method Descriptions
EN0023	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0100	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C
EN0102	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

—— END OF REPORT ——

Signatories
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Jitsupa Plaksangpol, Scientist (2)
Daj Changchon, Senior Manager

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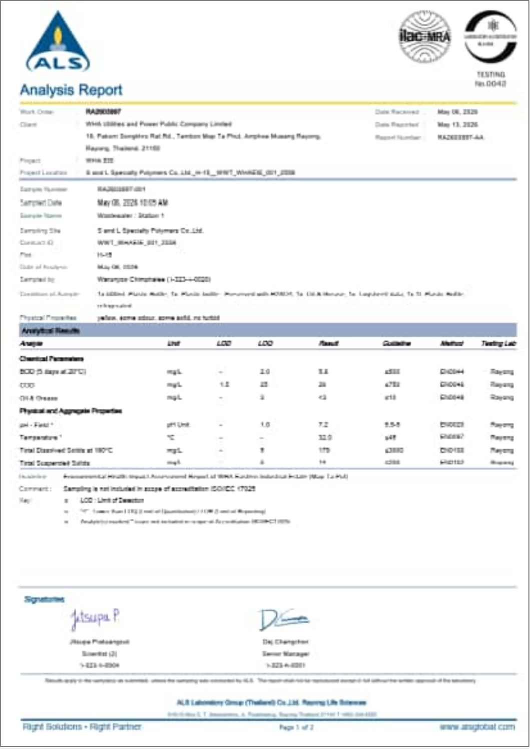

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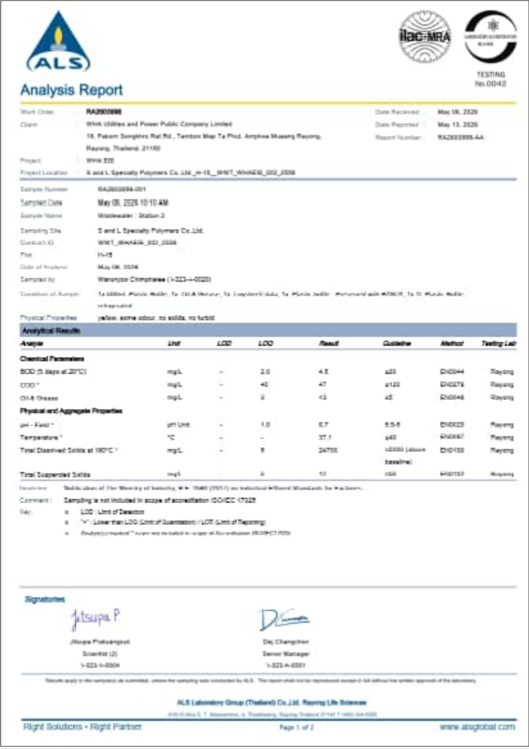

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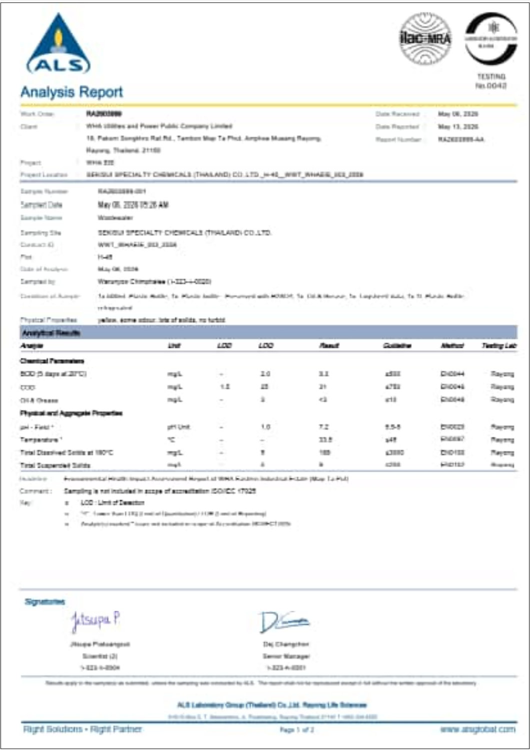

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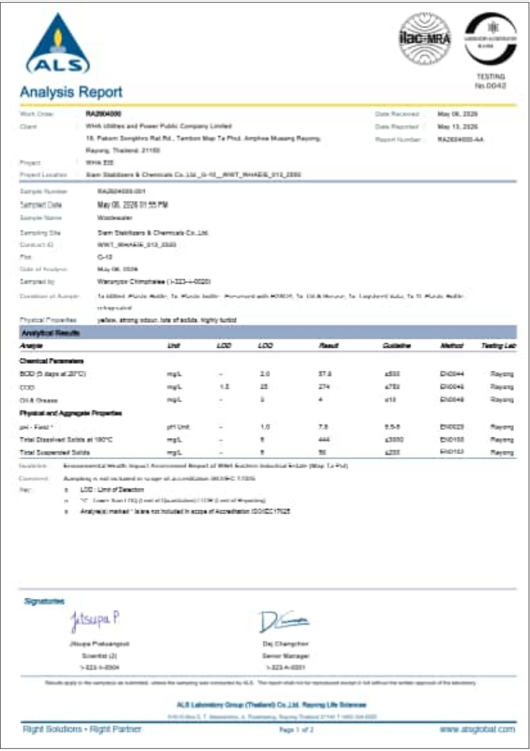

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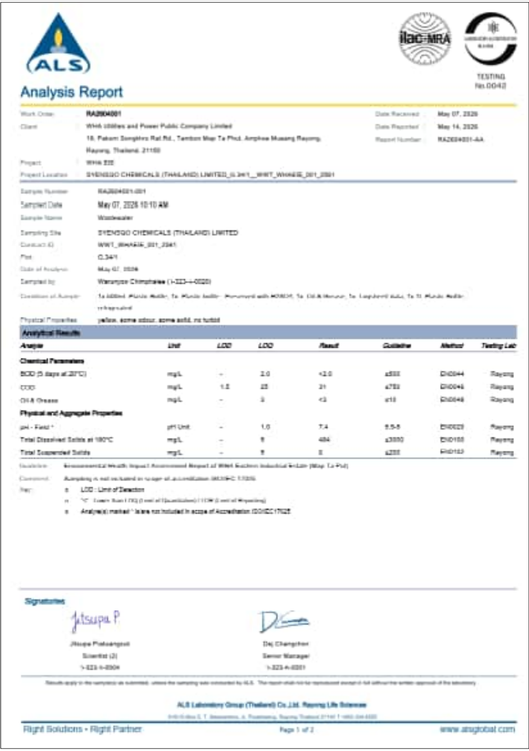

Analysis Report

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Analysis Report

Work Order: RA2604001
Date Received: May 07, 2026
Date Reported: May 14, 2026
Client: WHA Utilities and Power Public Company Limited
Project: WHA EIE
Project Location: SYENSQO CHEMICALS (THAILAND) LIMITED
Sampled Date: May 07, 2026 10:10 AM
Sample Name: Wastewater
Sampling Site: SYENSQO CHEMICALS (THAILAND) LIMITED
Physical Properties: yellow, some odour, some solid, no turbid

Brief Method Summaries

—— END OF REPORT ——

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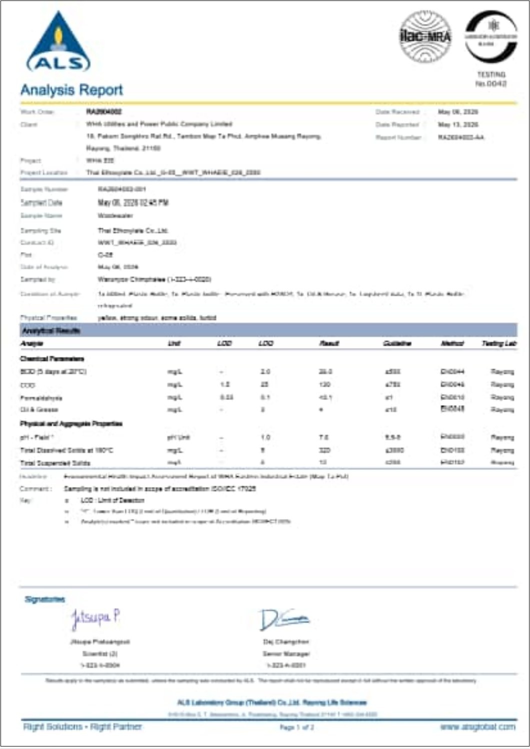


Analysis Report

Work Order: RA2604002
Date Received: May 06, 2026
Date Reported: May 13, 2026
Client: WHA Utilities and Power Public Company Limited
Project: WHA EIE
Sampled Date: May 06, 2026 02:45 PM
Sample Name: Wastewater
Sampling Site: Thai Ethoxylate Co.,Ltd.
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	28.0	≤500	EN0044	Rayong
COD	mg/L	1.5	25	130	≤750	EN0046	Rayong
Formaldehyde	mg/L	0.03	0.1	<0.1	≤1	EN0010	Rayong
Oil & Grease	mg/L	-	3	4	≤10	EN0048	Rayong
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.6	5.5-9	EN0023	Rayong
Total Dissolved Solids at 180°C	mg/L	-	5	320	≤3000	EN0100	Rayong
Total Suspended Solids	mg/L	-	5	13	≤200	EN0102	Rayong

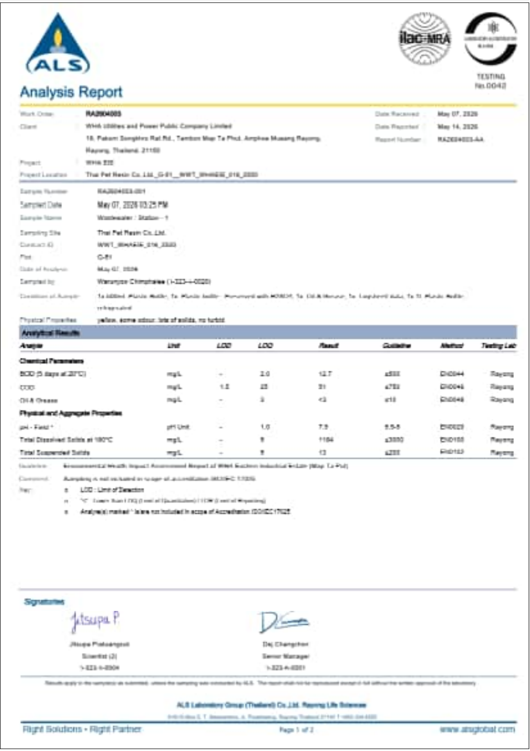
Comment : Sampling is not included in scope of accreditation ISO/IEC 17025
Key: LOD : Limit of Detection

Analysis Report

Work Order: RA2604002
Date Received: May 06, 2026
Date Reported: May 13, 2026
Sampled Date: May 06, 2026 02:45 PM
Sample Name: Wastewater
Sampling Site: Thai Ethoxylate Co.,Ltd.
Physical Properties: yellow, strong odour, some solids, turbid

Brief Method Summaries

—— END OF REPORT ——



Analysis Report

Work Order: RA2604003
Date Received: May 07, 2026
Date Reported: May 14, 2026
Client: WHA Utilities and Power Public Company Limited
Project: WHA EIE
Sampled Date: May 07, 2026 03:25 PM
Sample Name: Wastewater : Station - 1
Sampling Site: Thai Pet Resin Co.,Ltd.
Physical Properties: yellow, some odour, lots of solids, no turbid

Analytical Results

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	12.7	≤500	EN0044	Rayong
COD	mg/L	1.5	25	51	≤750	EN0046	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	EN0048	Rayong
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.9	5.5-9	EN0023	Rayong
Total Dissolved Solids at 180°C	mg/L	-	5	1184	≤3000	EN0100	Rayong
Total Suspended Solids	mg/L	-	5	13	≤200	EN0102	Rayong

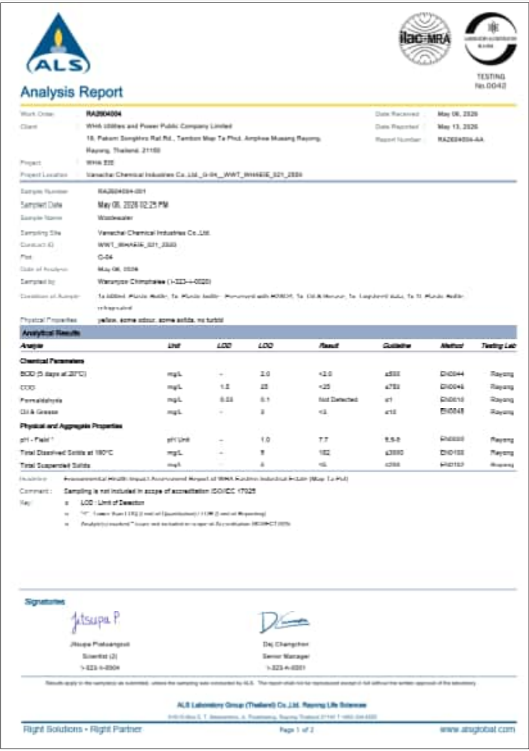
Key: LOD : Limit of Detection
Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC17025

Analysis Report

Work Order: RA2604003
Date Received: May 07, 2026
Date Reported: May 14, 2026
Sampled Date: May 07, 2026 03:25 PM
Sample Name: Wastewater : Station - 1
Sampling Site: Thai Pet Resin Co.,Ltd.
Physical Properties: yellow, some odour, lots of solids, no turbid

Brief Method Summaries

—— END OF REPORT ——



Analysis Report

Work Order: RA2604004
Date Received: May 06, 2026
Date Reported: May 13, 2026
Client: WHA Utilities and Power Public Company Limited
Project: WHA EIE
Sampled Date: May 06, 2026 02:25 PM
Sample Name: Wastewater
Sampling Site: Vanachai Chemical Industries Co.,Ltd.
Physical Properties: yellow, some odour, some solids, no 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	Rayong
COD	mg/L	1.5	25	<25	≤750	EN0046	Rayong
Formaldehyde	mg/L	0.03	0.1	Not Detected	≤1	EN0010	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	EN0048	Rayong
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.7	5.5-9	EN0023	Rayong
Total Dissolved Solids at 180°C	mg/L	-	5	182	≤3000	EN0100	Rayong
Total Suspended Solids	mg/L	-	5	<5	≤200	EN0102	Rayong

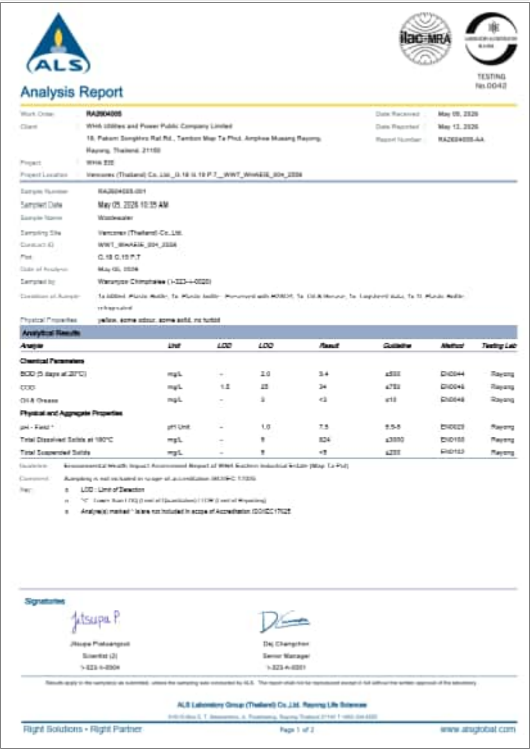
Comment : Sampling is not included in scope of accreditation ISO/IEC 17025
Key: LOD : Limit of Detection

Analysis Report

Work Order: RA2604004
Date Received: May 06, 2026
Date Reported: May 13, 2026
Sampled Date: May 06, 2026 02:25 PM
Sample Name: Wastewater
Sampling Site: Vanachai Chemical Industries Co.,Ltd.
Physical Properties: yellow, some odour, some solids, no turbid

Brief Method Summaries

—— END OF REPORT ——



Analysis Report

Work Order: RA2604005
Date Received: May 05, 2026
Date Reported: May 12, 2026
Client: WHA Utilities and Power Public Company Limited
Project: WHA EIE
Sampled Date: May 05, 2026 10:35 AM
Sample Name: Wastewater
Sampling Site: Vencorex (Thailand) Co.,Ltd.
Physical Properties: yellow, some odour, some solid, no 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	Rayong
COD	mg/L	1.5	25	34	≤750	EN0046	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	EN0048	Rayong
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.5	5.5-9	EN0023	Rayong
Total Dissolved Solids at 180°C	mg/L	-	5	824	≤3000	EN0100	Rayong
Total Suspended Solids	mg/L	-	5	<5	≤200	EN0102	Rayong

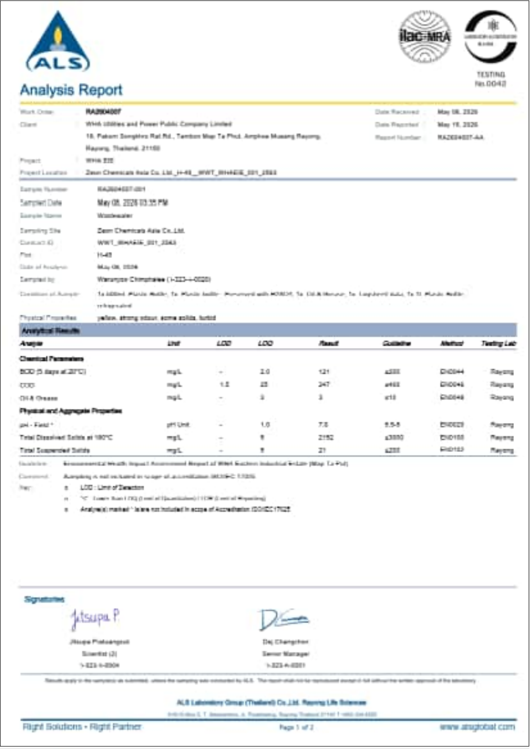
Key: LOD : Limit of Detection
Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC17025

Analysis Report

Work Order: RA2604005
Date Received: May 05, 2026
Date Reported: May 12, 2026
Sampled Date: May 05, 2026 10:35 AM
Sample Name: Wastewater
Sampling Site: Vencorex (Thailand) Co.,Ltd.
Physical Properties: yellow, some odour, some solid, no turbid

Brief Method Summaries

—— END OF REPORT ——



Analysis Report

TESTING No.0042

Work Order	RA2604007	Date Received	May 08, 2026
Client	WHA Utilities and Power Public Company Limited 18, Pakorn Songkhro Rat Rd., Tambon Map Ta Phut, Amphoe Mueang Rayong, Rayong, Thailand, 21150	Date Reported	May 15, 2026
Project	WHA EIE	Report Number	RA2604007-AA
Project Location	Zeon Chemicals Asia Co. Ltd._H-45__WWT_WHAEIE_001_2563		

Sample Number	RA2604007-001
Sampled Date	May 08, 2026 03:35 PM
Sample Name	Wastewater
Sampling Site	Zeon Chemicals Asia Co.,Ltd.
Contract ID	WWT_WHAEIE_001_2563
Plot	H-45
Date of Analysis	May 08, 2026
Sampled by	Waranyoo Chimphalee ([illegible])
Condition of Sample	[illegible]
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	121	≤500	EN0044	Rayong
COD	mg/L	1.5	25	247	≤400	EN0046	Rayong
Oil & Grease	mg/L	-	3	3	≤10	EN0048	Rayong
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.8	5.5-9	EN0023	Rayong
Total Dissolved Solids at 180°C	mg/L	-	5	2152	≤3000	EN0155	Rayong
Total Suspended Solids	mg/L	-	5	21	≤200	EN0152	Rayong

Guideline : Environmental Health Impact Assessment Report of WHA Eastern Industrial Estate (Map Ta Phut)

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

Jitsupa P.	
Jitsupa Plaksangpol	Dej Changchon
Scientist (2)	Senior Manager
[illegible]	[illegible]

[illegible]

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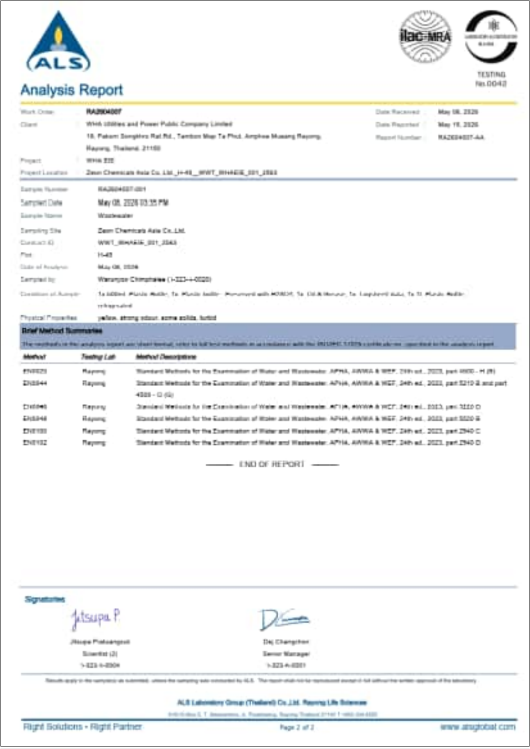

Analysis Report

TESTING No.0042

Work Order	RA2604007	Date Received	May 08, 2026
Client	WHA Utilities and Power Public Company Limited 18, Pakorn Songkhro Rat Rd., Tambon Map Ta Phut, Amphoe Mueang Rayong, Rayong, Thailand, 21150	Date Reported	May 15, 2026
Project	WHA EIE	Report Number	RA2604007-AA
Project Location	Zeon Chemicals Asia Co. Ltd._H-45__WWT_WHAEIE_001_2563		

Sample Number	RA2604007-001
Sampled Date	May 08, 2026 03:35 PM
Sample Name	Wastewater
Sampling Site	Zeon Chemicals Asia Co.,Ltd.
Contract ID	WWT_WHAEIE_001_2563
Plot	H-45
Date of Analysis	May 08, 2026
Sampled by	Waranyoo Chimphalee ([illegible])
Condition of Sample	[illegible]
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
EN0023	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0155	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C
EN0152	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

——— END OF REPORT ———

Signatories

Jitsupa P.	
Jitsupa Plaksangpol	Dej Changchon
Scientist (2)	Senior Manager
[illegible]	[illegible]

[illegible]

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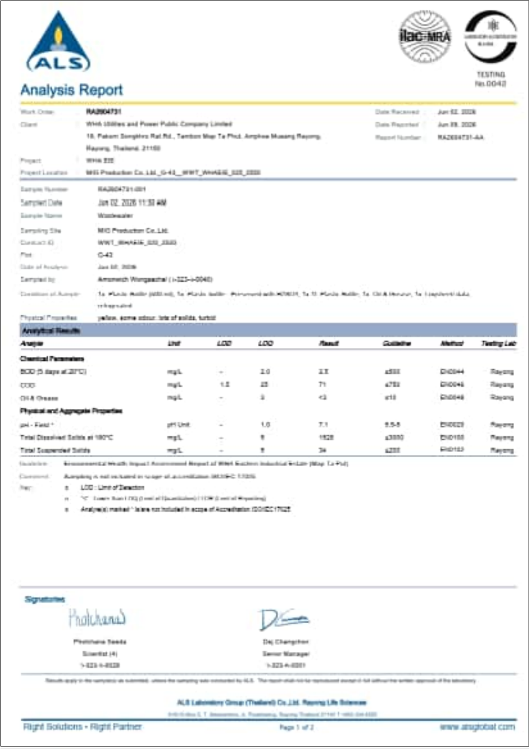

Analysis Report

TESTING No.0042

Work Order	RA2604731	Date Received	Jun 02, 2026
Client	WHA Utilities and Power Public Company Limited 18, Pakorn Songkhro Rat Rd., Tambon Map Ta Phut, Amphoe Mueang Rayong, Rayong, Thailand, 21150	Date Reported	Jun 09, 2026
Project	WHA EIE	Report Number	RA2604731-AA
Project Location	MIG Production Co. Ltd._G-43__WWT_WHAEIE_020_2555		

Sample Number	RA2604731-001
Sampled Date	Jun 02, 2026 11:30 AM
Sample Name	Wastewater
Sampling Site	MIG Production Co.,Ltd.
Contract ID	WWT_WHAEIE_020_2555
Plot	G-43
Date of Analysis	Jun 02, 2026
Sampled by	Amornrich Wongsachai ([illegible])
Condition of Sample	[illegible]
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	3.5	≤500	EN0044	Rayong
COD	mg/L	1.5	25	71	≤750	EN0046	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	EN0048	Rayong
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.1	5.5-9	EN0023	Rayong
Total Dissolved Solids at 180°C	mg/L	-	5	1528	≤3000	EN0155	Rayong
Total Suspended Solids	mg/L	-	5	34	≤200	EN0152	Rayong

Guideline : Environmental Health Impact Assessment Report of WHA Eastern Industrial Estate (Map Ta Phut)

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

Photchana	
Photchana Seeda	Dej Changchon
Scientist (4)	Senior Manager
[illegible]	[illegible]

[illegible]

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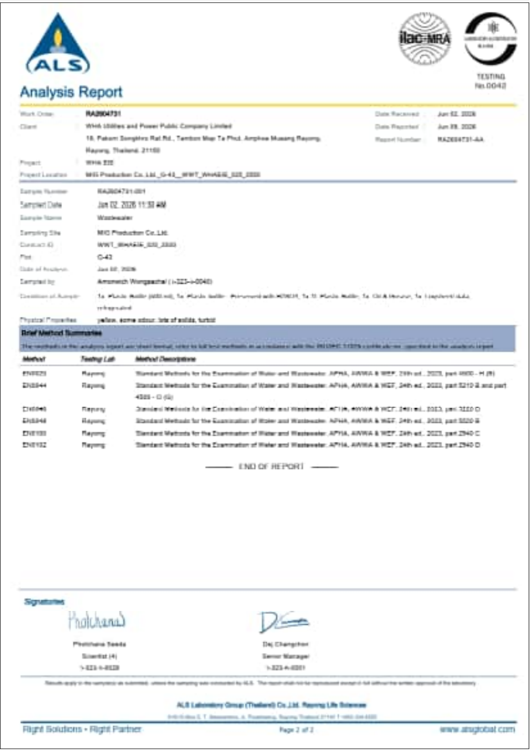

Analysis Report

TESTING No.0042

Work Order	RA2604731	Date Received	Jun 02, 2026
Client	WHA Utilities and Power Public Company Limited 18, Pakorn Songkhro Rat Rd., Tambon Map Ta Phut, Amphoe Mueang Rayong, Rayong, Thailand, 21150	Date Reported	Jun 09, 2026
Project	WHA EIE	Report Number	RA2604731-AA
Project Location	MIG Production Co. Ltd._G-43__WWT_WHAEIE_020_2555		

Sample Number	RA2604731-001
Sampled Date	Jun 02, 2026 11:30 AM
Sample Name	Wastewater
Sampling Site	MIG Production Co.,Ltd.
Contract ID	WWT_WHAEIE_020_2555
Plot	G-43
Date of Analysis	Jun 02, 2026
Sampled by	Amornrich Wongsachai ([illegible])
Condition of Sample	[illegible]
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
EN0023	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0155	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C
EN0152	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

——— END OF REPORT ———

Signatories

Photchana	
Photchana Seeda	Dej Changchon
Scientist (4)	Senior Manager
[illegible]	[illegible]

[illegible]

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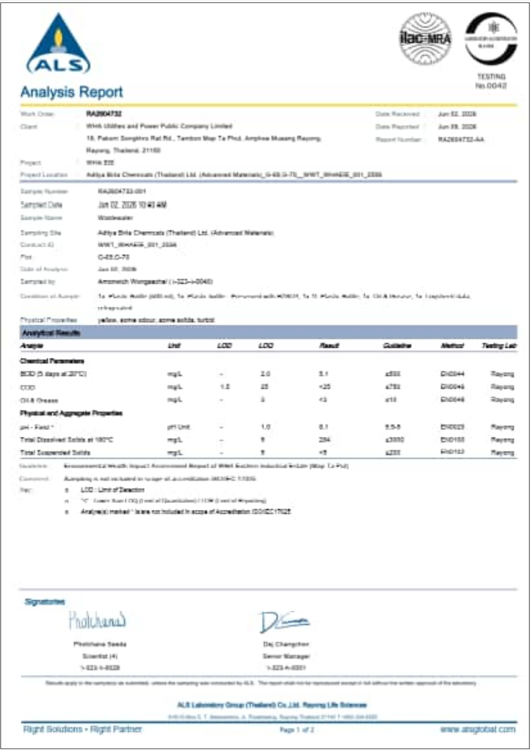

Analysis Report

TESTING No.0042

Work Order	RA2604732	Date Received	Jun 02, 2026
Client	WHA Utilities and Power Public Company Limited 18, Pakorn Songkhro Rat Rd., Tambon Map Ta Phut, Amphoe Mueang Rayong, Rayong, Thailand, 21150	Date Reported	Jun 09, 2026
Project	WHA EIE	Report Number	RA2604732-AA
Project Location	Aditya Birla Chemicals (Thailand) Ltd. (Advanced Materials)_G-65,G-70__WWT_WHAEIE_001_2556		

Sample Number	RA2604732-001
Sampled Date	Jun 02, 2026 10:40 AM
Sample Name	Wastewater
Sampling Site	Aditya Birla Chemicals (Thailand) Ltd. (Advanced Materials)
Contract ID	WWT_WHAEIE_001_2556
Plot	G-65,G-70
Date of Analysis	Jun 02, 2026
Sampled by	Amornrich Wongsachai ([illegible])
Condition of Sample	[illegible]
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	5.1	≤500	EN0044	Rayong
COD	mg/L	1.5	25	<25	≤750	EN0046	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	EN0048	Rayong
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	8.1	5.5-9	EN0023	Rayong
Total Dissolved Solids at 180°C	mg/L	-	5	284	≤3000	EN0155	Rayong
Total Suspended Solids	mg/L	-	5	<5	≤200	EN0152	Rayong

Guideline : Environmental Health Impact Assessment Report of WHA Eastern Industrial Estate (Map Ta Phut)

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

Photchana	
Photchana Seeda	Dej Changchon
Scientist (4)	Senior Manager
[illegible]	[illegible]

[illegible]

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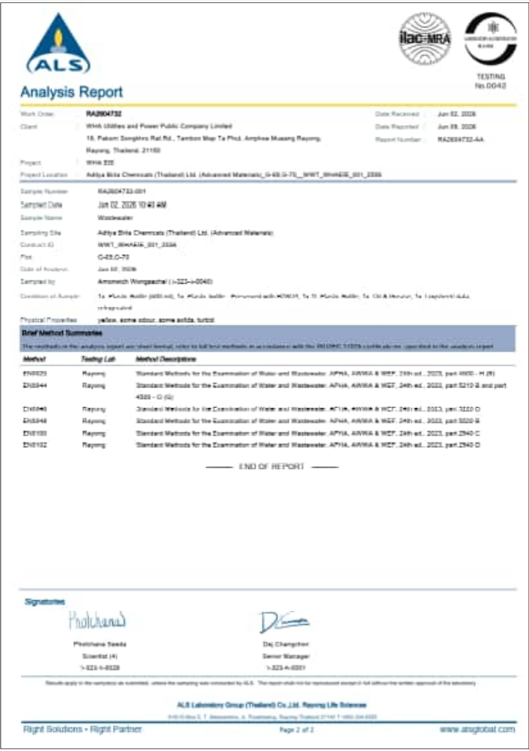

Analysis Report

TESTING No.0042

Work Order	RA2604732	Date Received	Jun 02, 2026
Client	WHA Utilities and Power Public Company Limited 18, Pakorn Songkhro Rat Rd., Tambon Map Ta Phut, Amphoe Mueang Rayong, Rayong, Thailand, 21150	Date Reported	Jun 09, 2026
Project	WHA EIE	Report Number	RA2604732-AA
Project Location	Aditya Birla Chemicals (Thailand) Ltd. (Advanced Materials)_G-65,G-70__WWT_WHAEIE_001_2556		

Sample Number	RA2604732-001
Sampled Date	Jun 02, 2026 10:40 AM
Sample Name	Wastewater
Sampling Site	Aditya Birla Chemicals (Thailand) Ltd. (Advanced Materials)
Contract ID	WWT_WHAEIE_001_2556
Plot	G-65,G-70
Date of Analysis	Jun 02, 2026
Sampled by	Amornrich Wongsachai ([illegible])
Condition of Sample	[illegible]
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
EN0023	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0155	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C
EN0152	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

——— END OF REPORT ———

Signatories

Photchana	
Photchana Seeda	Dej Changchon
Scientist (4)	Senior Manager
[illegible]	[illegible]

[illegible]

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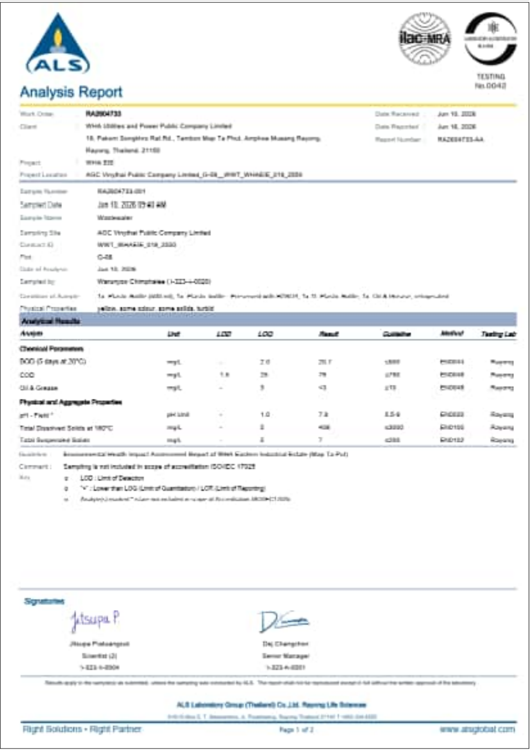

Analysis Report

TESTING No.0042

Work Order	RA2604733	Date Received	Jun 10, 2026
Client	WHA Utilities and Power Public Company Limited 18, Pakorn Songkhro Rat Rd., Tambon Map Ta Phut, Amphoe Mueang Rayong, Rayong, Thailand, 21150	Date Reported	Jun 16, 2026
Project	WHA EIE	Report Number	RA2604733-AA
Project Location	AGC Vinythai Public Company Limited_G-08__WWT_WHAEIE_018_2550		

Sample Number	RA2604733-001
Sampled Date	Jun 10, 2026 09:40 AM
Sample Name	Wastewater
Sampling Site	AGC Vinythai Public Company Limited
Contract ID	WWT_WHAEIE_018_2550
Plot	G-08
Date of Analysis	Jun 10, 2026
Sampled by	Waranyoo Chimphalee ([illegible])
Condition of Sample	[illegible]
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	20.7	≤500	EN0044	Rayong
COD	mg/L	1.5	25	79	≤750	EN0046	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	EN0048	Rayong
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.8	5.5-9	EN0023	Rayong
Total Dissolved Solids at 180°C	mg/L	-	5	408	≤3000	EN0155	Rayong
Total Suspended Solids	mg/L	-	5	7	≤200	EN0152	Rayong

Guideline : Environmental Health Impact Assessment Report of WHA Eastern Industrial Estate (Map Ta Phut)

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)
- [illegible]

Signatories

Jitsupa P.	
Jitsupa Plaksangpol	Dej Changchon
Scientist (2)	Senior Manager
[illegible]	[illegible]

[illegible]

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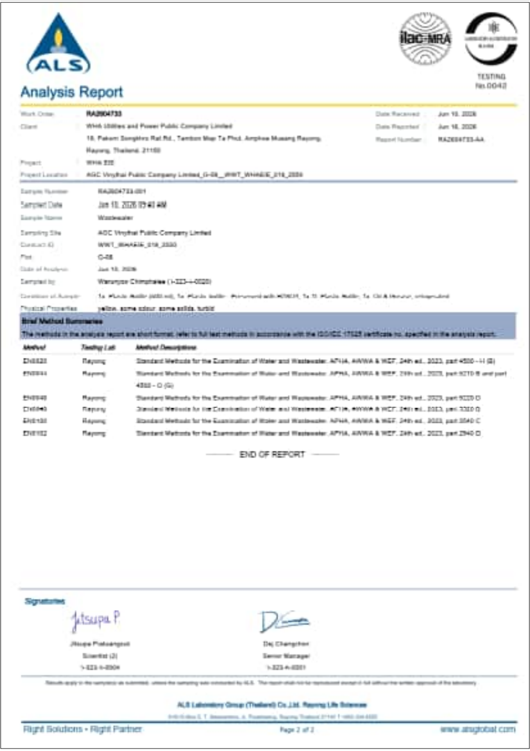

Analysis Report

TESTING No.0042

Work Order	RA2604733	Date Received	Jun 10, 2026
Client	WHA Utilities and Power Public Company Limited 18, Pakorn Songkhro Rat Rd., Tambon Map Ta Phut, Amphoe Mueang Rayong, Rayong, Thailand, 21150	Date Reported	Jun 16, 2026
Project	WHA EIE	Report Number	RA2604733-AA
Project Location	AGC Vinythai Public Company Limited_G-08__WWT_WHAEIE_018_2550		

Sample Number	RA2604733-001
Sampled Date	Jun 10, 2026 09:40 AM
Sample Name	Wastewater
Sampling Site	AGC Vinythai Public Company Limited
Contract ID	WWT_WHAEIE_018_2550
Plot	G-08
Date of Analysis	Jun 10, 2026
Sampled by	Waranyoo Chimphalee ([illegible])
Condition of Sample	[illegible]
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
EN0023	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0155	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C
EN0152	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

——— END OF REPORT ———

Signatories

Jitsupa P.	
Jitsupa Plaksangpol	Dej Changchon
Scientist (2)	Senior Manager
[illegible]	[illegible]

[illegible]

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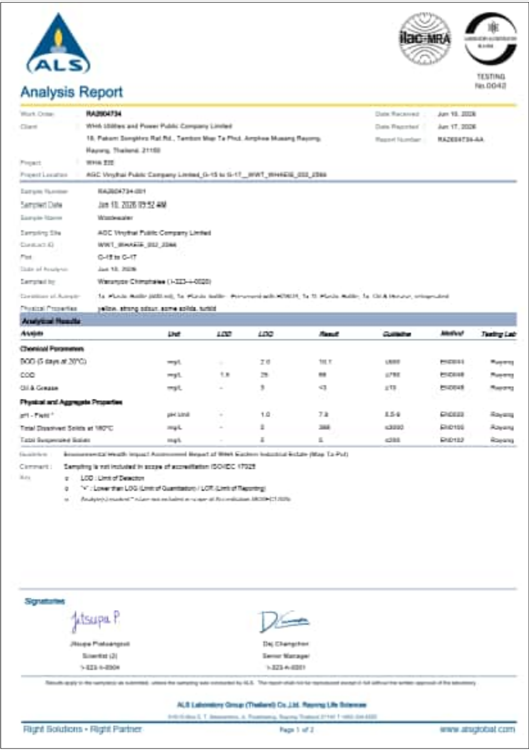

Analysis Report

TESTING No.0042

Work Order	RA2604734	Date Received	Jun 10, 2026
Client	WHA Utilities and Power Public Company Limited 18, Pakorn Songkhro Rat Rd., Tambon Map Ta Phut, Amphoe Mueang Rayong, Rayong, Thailand, 21150	Date Reported	Jun 17, 2026
Project	WHA EIE	Report Number	RA2604734-AA
Project Location	AGC Vinythai Public Company Limited_G-15 to G-17__WWT_WHAEIE_002_2566		

Sample Number	RA2604734-001
Sampled Date	Jun 10, 2026 09:52 AM
Sample Name	Wastewater
Sampling Site	AGC Vinythai Public Company Limited
Contract ID	WWT_WHAEIE_002_2566
Plot	G-15 to G-17
Date of Analysis	Jun 10, 2026
Sampled by	Waranyoo Chimphalee ([illegible])
Condition of Sample	[illegible]
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	10.1	≤500	EN0044	Rayong
COD	mg/L	1.5	25	66	≤750	EN0046	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	EN0048	Rayong
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.8	5.5-9	EN0023	Rayong
Total Dissolved Solids at 180°C	mg/L	-	5	388	≤3000	EN0155	Rayong
Total Suspended Solids	mg/L	-	5	5	≤200	EN0152	Rayong

Guideline : Environmental Health Impact Assessment Report of WHA Eastern Industrial Estate (Map Ta Phut)

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)
- [illegible]

Signatories

Jitsupa P.	
Jitsupa Plaksangpol	Dej Changchon
Scientist (2)	Senior Manager
[illegible]	[illegible]

[illegible]

ALS Laboratory Group (Thailand) Co.,Ltd. Rayong Life Sciences

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Analysis Report

TESTING No.0042

Work Order: RA2604734
Client: WHA Utilities and Power Public Company Limited
18, Pakorn Songkhro Rat Rd., Tambon Map Ta Phut, Amphoe Mueang Rayong, Rayong, Thailand, 21150
Date Received: Jun 10, 2026
Date Reported: Jun 17, 2026
Report Number: RA2604734-AA
Project: WHA EIE
Project Location: AGC Vinythai Public Company Limited_G-15 to G-17__WWT_WHAEIE_002_2566

Sample Number: RA2604734-001
Sampled Date: Jun 10, 2026 09:52 AM
Sample Name: Wastewater
Sampling Site: AGC Vinythai Public Company Limited
Contact ID: WWT_WHAEIE_002_2566
Plot: G-15 to G-17
Date of Analysis: Jun 10, 2026
Sampled by: Waranyoo Chimphalee (I-323-I-0020)
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
EN0023	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0048	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0046	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0150	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C
EN0152	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

END OF REPORT

Signatories

Jitsupa P.
Jitsupa Piatuangpool
Scientist (2)
I-323-I-0004

Daj Changchon
Senior Manager
I-323-A-0001

ALS Laboratory Group (Thailand) Co.,Ltd. Rayong Life Sciences

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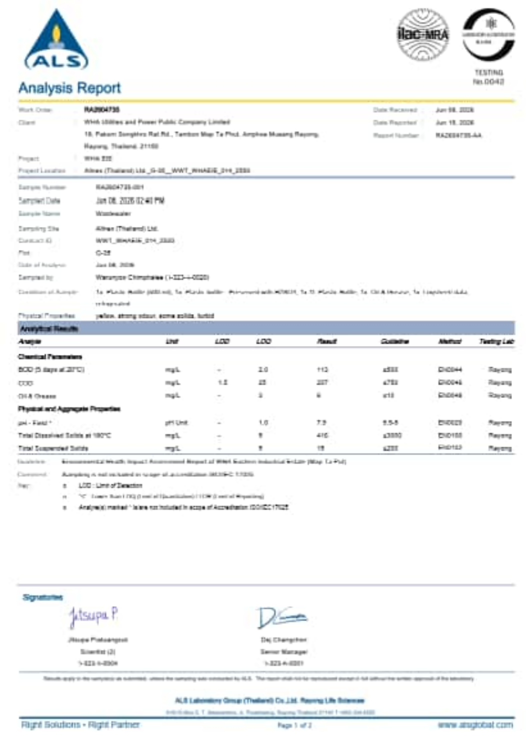

Analysis Report

TESTING No.0042

Work Order: RA2604735
Client: WHA Utilities and Power Public Company Limited
18, Pakorn Songkhro Rat Rd., Tambon Map Ta Phut, Amphoe Mueang Rayong, Rayong, Thailand, 21150
Date Received: Jun 08, 2026
Date Reported: Jun 15, 2026
Report Number: RA2604735-AA
Project: WHA EIE
Project Location: Altnes (Thailand) Ltd._G-35__WWT_WHAEIE_014_2560

Sample Number: RA2604735-001
Sampled Date: Jun 08, 2026 02:40 PM
Sample Name: Wastewater
Sampling Site: Altnes (Thailand) Ltd.
Contact ID: WWT_WHAEIE_014_2560
Plot: G-35
Date of Analysis: Jun 08, 2026
Sampled by: Waranyoo Chimphalee (I-323-I-0020)
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	113	≤500	EN0044	Rayong
COD	mg/L	1.5	25	207	≤750	EN0046	Rayong
Oil & Grease	mg/L	-	3	6	≤10	EN0048	Rayong
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.9	5.5-9	EN0023	Rayong
Total Dissolved Solids at 180°C	mg/L	-	5	416	≤3000	EN0150	Rayong
Total Suspended Solids	mg/L	-	5	15	≤200	EN0152	Rayong

Guideline: Environmental Health Impact Assessment Report of WHA Eastern Industrial Estate (Map Ta Phut)
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

Jitsupa P.
Jitsupa Piatuangpool
Scientist (2)
I-323-I-0004

Daj Changchon
Senior Manager
I-323-A-0001

ALS Laboratory Group (Thailand) Co.,Ltd. Rayong Life Sciences

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Analysis Report

TESTING No.0042

Work Order: RA2604735
Client: WHA Utilities and Power Public Company Limited
18, Pakorn Songkhro Rat Rd., Tambon Map Ta Phut, Amphoe Mueang Rayong, Rayong, Thailand, 21150
Date Received: Jun 08, 2026
Date Reported: Jun 15, 2026
Report Number: RA2604735-AA
Project: WHA EIE
Project Location: Altnes (Thailand) Ltd._G-35__WWT_WHAEIE_014_2560

Sample Number: RA2604735-001
Sampled Date: Jun 08, 2026 02:40 PM
Sample Name: Wastewater
Sampling Site: Altnes (Thailand) Ltd.
Contact ID: WWT_WHAEIE_014_2560
Plot: G-35
Date of Analysis: Jun 08, 2026
Sampled by: Waranyoo Chimphalee (I-323-I-0020)
Physical Properties: yellow, strong odour, some solids, turbid

Brief Method Summaries

Method	Testing Lab	Method Descriptions
EN0023	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0150	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C
EN0152	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

END OF REPORT

Signatories

Jitsupa P.
Jitsupa Piatuangpool
Scientist (2)
I-323-I-0004

Daj Changchon
Senior Manager
I-323-A-0001

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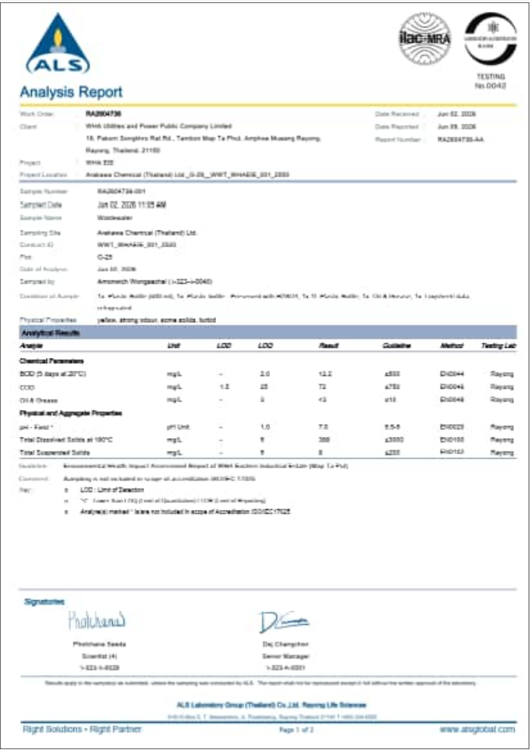

Analysis Report

TESTING No.0042

Work Order: RA2604736
Client: WHA Utilities and Power Public Company Limited
18, Pakorn Songkhro Rat Rd., Tambon Map Ta Phut, Amphoe Mueang Rayong, Rayong, Thailand, 21150
Date Received: Jun 02, 2026
Date Reported: Jun 09, 2026
Report Number: RA2604736-AA
Project: WHA EIE
Project Location: Arakawa Chemical (Thailand) Ltd._G-25__WWT_WHAEIE_001_2553

Sample Number: RA2604736-001
Sampled Date: Jun 02, 2026 11:05 AM
Sample Name: Wastewater
Sampling Site: Arakawa Chemical (Thailand) Ltd.
Contact ID: WWT_WHAEIE_001_2553
Plot: G-25
Date of Analysis: Jun 02, 2026
Sampled by: Amornrich Wongpachai (I-323-I-0040)
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	12.2	≤500	EN0044	Rayong
COD	mg/L	1.5	25	72	≤750	EN0046	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	EN0048	Rayong
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.8	5.5-9	EN0023	Rayong
Total Dissolved Solids at 180°C	mg/L	-	5	388	≤3000	EN0150	Rayong
Total Suspended Solids	mg/L	-	5	8	≤200	EN0152	Rayong

Guideline: Environmental Health Impact Assessment Report of WHA Eastern Industrial Estate (Map Ta Phut)
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

Pholchana
Pholchana Saeda
Scientist (4)
I-323-I-0028

Daj Changchon
Senior Manager
I-323-A-0001

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Analysis Report

TESTING No.0042

Work Order: RA2604736
Client: WHA Utilities and Power Public Company Limited
18, Pakorn Songkhro Rat Rd., Tambon Map Ta Phut, Amphoe Mueang Rayong, Rayong, Thailand, 21150
Date Received: Jun 02, 2026
Date Reported: Jun 09, 2026
Report Number: RA2604736-AA
Project: WHA EIE
Project Location: Arakawa Chemical (Thailand) Ltd._G-25__WWT_WHAEIE_001_2553

Sample Number: RA2604736-001
Sampled Date: Jun 02, 2026 11:05 AM
Sample Name: Wastewater
Sampling Site: Arakawa Chemical (Thailand) Ltd.
Contact ID: WWT_WHAEIE_001_2553
Plot: G-25
Date of Analysis: Jun 02, 2026
Sampled by: Amornrich Wongpachai (I-323-I-0040)
Physical Properties: yellow, strong odour, some solids, turbid

Brief Method Summaries

Method	Testing Lab	Method Descriptions
EN0023	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0150	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C
EN0152	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

END OF REPORT

Signatories

Pholchana
Pholchana Saeda
Scientist (4)
I-323-I-0028

Daj Changchon
Senior Manager
I-323-A-0001

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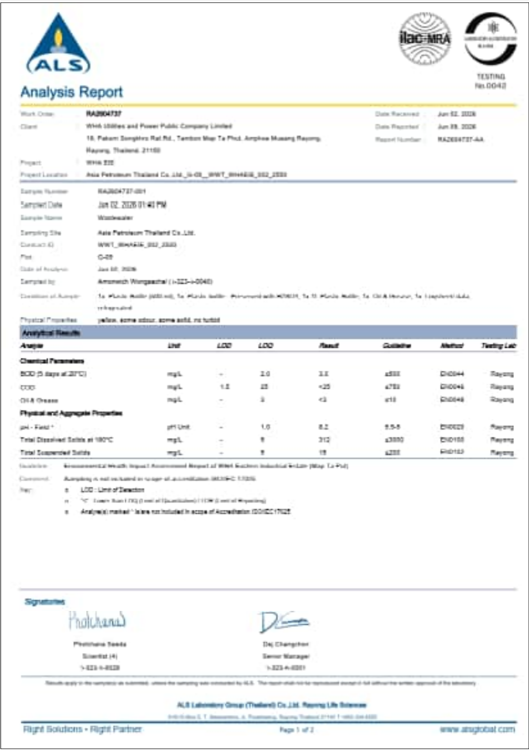

Analysis Report

TESTING No.0042

Work Order: RA2604737
Client: WHA Utilities and Power Public Company Limited
18, Pakorn Songkhro Rat Rd., Tambon Map Ta Phut, Amphoe Mueang Rayong, Rayong, Thailand, 21150
Date Received: Jun 02, 2026
Date Reported: Jun 09, 2026
Report Number: RA2604737-AA
Project: WHA EIE
Project Location: Asia Petroleum Thailand Co.,Ltd._G-05__WWT_WHAEIE_002_2553

Sample Number: RA2604737-001
Sampled Date: Jun 02, 2026 01:40 PM
Sample Name: Wastewater
Sampling Site: Asia Petroleum Thailand Co.,Ltd.
Contact ID: WWT_WHAEIE_002_2553
Plot: G-05
Date of Analysis: Jun 02, 2026
Sampled by: Amornrich Wongpachai (I-323-I-0040)
Physical Properties: yellow, some odour, some solid, no turbid

Analytical Results

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	3.5	≤500	EN0044	Rayong
COD	mg/L	1.5	25	<25	≤750	EN0046	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	EN0048	Rayong
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	8.2	5.5-9	EN0023	Rayong
Total Dissolved Solids at 180°C	mg/L	-	5	312	≤3000	EN0150	Rayong
Total Suspended Solids	mg/L	-	5	15	≤200	EN0152	Rayong

Guideline: Environmental Health Impact Assessment Report of WHA Eastern Industrial Estate (Map Ta Phut)
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

Pholchana
Pholchana Saeda
Scientist (4)
I-323-I-0028

Daj Changchon
Senior Manager
I-323-A-0001

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Analysis Report

TESTING No.0042

Work Order: RA2604737
Client: WHA Utilities and Power Public Company Limited
18, Pakorn Songkhro Rat Rd., Tambon Map Ta Phut, Amphoe Mueang Rayong, Rayong, Thailand, 21150
Date Received: Jun 02, 2026
Date Reported: Jun 09, 2026
Report Number: RA2604737-AA
Project: WHA EIE
Project Location: Asia Petroleum Thailand Co.,Ltd._G-05__WWT_WHAEIE_002_2553

Sample Number: RA2604737-001
Sampled Date: Jun 02, 2026 01:40 PM
Sample Name: Wastewater
Sampling Site: Asia Petroleum Thailand Co.,Ltd.
Contact ID: WWT_WHAEIE_002_2553
Plot: G-05
Date of Analysis: Jun 02, 2026
Sampled by: Amornrich Wongpachai (I-323-I-0040)
Physical Properties: yellow, some odour, some solid, no turbid

Brief Method Summaries

Method	Testing Lab	Method Descriptions
EN0023	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0150	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C
EN0152	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

END OF REPORT

Signatories

Pholchana
Pholchana Saeda
Scientist (4)
I-323-I-0028

Daj Changchon
Senior Manager
I-323-A-0001

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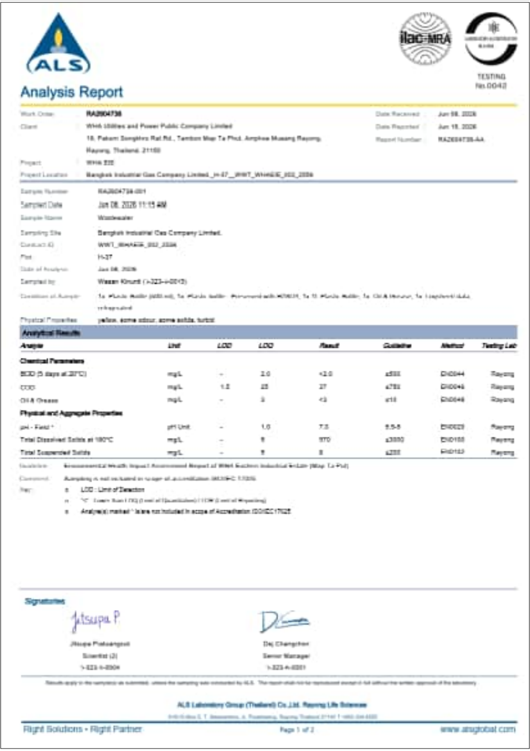

Analysis Report

TESTING No.0042

Work Order: RA2604738
Client: WHA Utilities and Power Public Company Limited
18, Pakorn Songkhro Rat Rd., Tambon Map Ta Phut, Amphoe Mueang Rayong, Rayong, Thailand, 21150
Date Received: Jun 08, 2026
Date Reported: Jun 15, 2026
Report Number: RA2604738-AA
Project: WHA EIE
Project Location: Bangkok Industrial Gas Company Limited_H-37__WWT_WHAEIE_002_2556

Sample Number: RA2604738-001
Sampled Date: Jun 08, 2026 11:15 AM
Sample Name: Wastewater
Sampling Site: Bangkok Industrial Gas Company Limited.
Contact ID: WWT_WHAEIE_002_2556
Plot: H-37
Date of Analysis: Jun 08, 2026
Sampled by: Wasan Kinurit (I-323-I-0015)
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	Rayong
COD	mg/L	1.5	25	27	≤750	EN0046	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	EN0048	Rayong
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.5	5.5-9	EN0023	Rayong
Total Dissolved Solids at 180°C	mg/L	-	5	570	≤3000	EN0150	Rayong
Total Suspended Solids	mg/L	-	5	8	≤200	EN0152	Rayong

Guideline: Environmental Health Impact Assessment Report of WHA Eastern Industrial Estate (Map Ta Phut)
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

Jitsupa P.
Jitsupa Piatuangpool
Scientist (2)
I-323-I-0004

Daj Changchon
Senior Manager
I-323-A-0001

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Analysis Report

TESTING No.0042

Work Order: RA2604738
Client: WHA Utilities and Power Public Company Limited
18, Pakorn Songkhro Rat Rd., Tambon Map Ta Phut, Amphoe Mueang Rayong, Rayong, Thailand, 21150
Date Received: Jun 08, 2026
Date Reported: Jun 15, 2026
Report Number: RA2604738-AA
Project: WHA EIE
Project Location: Bangkok Industrial Gas Company Limited_H-37__WWT_WHAEIE_002_2556

Sample Number: RA2604738-001
Sampled Date: Jun 08, 2026 11:15 AM
Sample Name: Wastewater
Sampling Site: Bangkok Industrial Gas Company Limited.
Contact ID: WWT_WHAEIE_002_2556
Plot: H-37
Date of Analysis: Jun 08, 2026
Sampled by: Wasan Kinurit (I-323-I-0015)
Physical Properties: yellow, some odour, some solids, turbid

Brief Method Summaries

Method	Testing Lab	Method Descriptions
EN0023	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0150	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C
EN0152	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

END OF REPORT

Signatories

Jitsupa P.
Jitsupa Piatuangpool
Scientist (2)
I-323-I-0004

Daj Changchon
Senior Manager
I-323-A-0001

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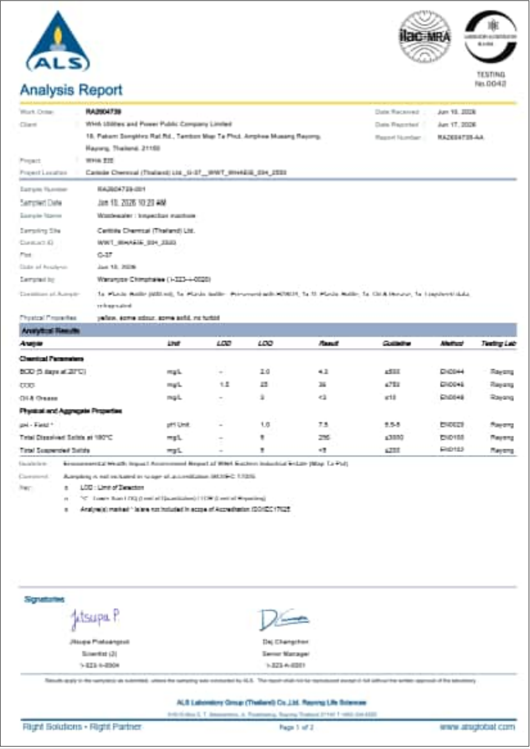

Analysis Report

TESTING No.0042

Work Order	RA2604739	Date Received	Jun 10, 2026
Client	WHA Utilities and Power Public Company Limited 18, Pakorn Songkhro Rat Rd., Tambon Map Ta Phut, Amphoe Mueang Rayong, Rayong, Thailand. 21150	Date Reported	Jun 17, 2026
		Report Number	RA2604739-AA
Project	WHA EIE		
Project Location	Carlisle Chemical (Thailand) Ltd._G-37__WWT_WHAEIE_004_2500		

Sample Number: RA2604739-001
Sampled Date: Jun 10, 2026 10:23 AM
Sample Name: Wastewater : Inspection manhole
Sampling Site: Carlisle Chemical (Thailand) Ltd.
Contract ID: WWT_WHAEIE_004_2500
Plot: G-37
Date of Analysis: Jun 10, 2026
Sampled by: Waranyoo Chimphalee (1-323-4-0020)
Condition of Sample: [illegible]
Physical Properties: yellow, some odour, some solid, no turbid

Analytical Results

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	4.2	≤500	EN0044	Rayong
COD	mg/L	1.5	25	36	≤750	EN0046	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	EN0048	Rayong
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.5	5.5-9	EN0023	Rayong
Total Dissolved Solids at 180°C	mg/L	-	5	296	≤3000	EN0100	Rayong
Total Suspended Solids	mg/L	-	5	<5	≤200	EN0102	Rayong

Guideline: Environmental Health Impact Assessment Report of WHA Eastern Industrial Estate (Map Ta Phut)
Comment: Sampling is not included in scope of accreditation ISO/IEC 17025
Key:
- LOD : Limit of Detection
- [illegible]
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC17025

Signatories

Jitsupa P.
Jitsupa [illegible]
Scientist (2)
1-323-4-0004

Daj Changchon
Senior Manager
1-323-A-0001

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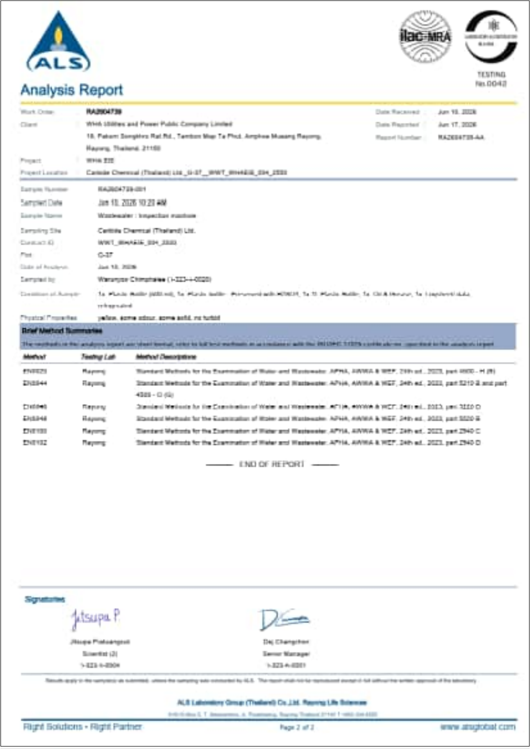

Analysis Report

TESTING No.0042

Work Order	RA2604739	Date Received	Jun 10, 2026
Client	WHA Utilities and Power Public Company Limited 18, Pakorn Songkhro Rat Rd., Tambon Map Ta Phut, Amphoe Mueang Rayong, Rayong, Thailand. 21150	Date Reported	Jun 17, 2026
		Report Number	RA2604739-AA
Project	WHA EIE		
Project Location	Carlisle Chemical (Thailand) Ltd._G-37__WWT_WHAEIE_004_2500		

Sample Number: RA2604739-001
Sampled Date: Jun 10, 2026 10:23 AM
Sample Name: Wastewater : Inspection manhole
Sampling Site: Carlisle Chemical (Thailand) Ltd.
Contract ID: WWT_WHAEIE_004_2500
Plot: G-37
Date of Analysis: Jun 10, 2026
Sampled by: Waranyoo Chimphalee (1-323-4-0020)
Condition of Sample: [illegible]
Physical Properties: yellow, some odour, some solid, no turbid

Brief Method Summaries

[illegible]

Method	Testing Lab	Method Descriptions
EN0023	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0100	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C
EN0102	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

—— END OF REPORT ——

Signatories

Jitsupa P.
Jitsupa [illegible]
Scientist (2)
1-323-4-0004

Daj Changchon
Senior Manager
1-323-A-0001

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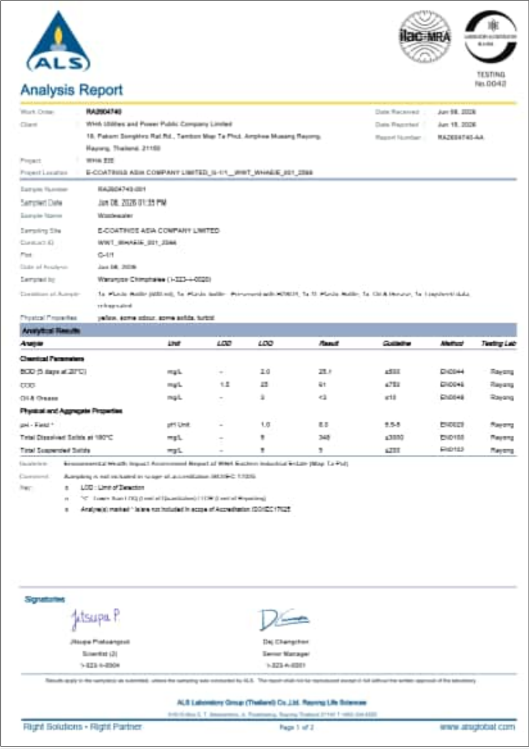

Analysis Report

TESTING No.0042

Work Order	RA2604740	Date Received	Jun 08, 2026
Client	WHA Utilities and Power Public Company Limited 18, Pakorn Songkhro Rat Rd., Tambon Map Ta Phut, Amphoe Mueang Rayong, Rayong, Thailand. 21150	Date Reported	Jun 15, 2026
		Report Number	RA2604740-AA
Project	WHA EIE		
Project Location	E-COATINGS ASIA COMPANY LIMITED_G-1/1__WWT_WHAEIE_001_2566		

Sample Number: RA2604740-001
Sampled Date: Jun 08, 2026 01:35 PM
Sample Name: Wastewater
Sampling Site: E-COATINGS ASIA COMPANY LIMITED
Contract ID: WWT_WHAEIE_001_2566
Plot: G-1/1
Date of Analysis: Jun 08, 2026
Sampled by: Waranyoo Chimphalee (1-323-4-0020)
Condition of Sample: [illegible]
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	25.1	≤500	EN0044	Rayong
COD	mg/L	1.5	25	61	≤750	EN0046	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	EN0048	Rayong
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	8.0	5.5-9	EN0023	Rayong
Total Dissolved Solids at 180°C	mg/L	-	5	348	≤3000	EN0100	Rayong
Total Suspended Solids	mg/L	-	5	5	≤200	EN0102	Rayong

Guideline: Environmental Health Impact Assessment Report of WHA Eastern Industrial Estate (Map Ta Phut)
Comment: Sampling is not included in scope of accreditation ISO/IEC 17025
Key:
- LOD : Limit of Detection
- [illegible]
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC17025

Signatories

Jitsupa P.
Jitsupa [illegible]
Scientist (2)
1-323-4-0004

Daj Changchon
Senior Manager
1-323-A-0001

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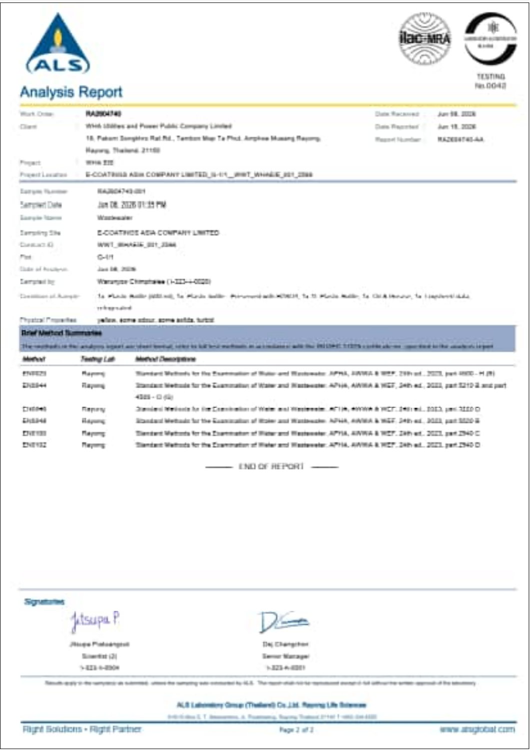

Analysis Report

TESTING No.0042

Work Order	RA2604740	Date Received	Jun 08, 2026
Client	WHA Utilities and Power Public Company Limited 18, Pakorn Songkhro Rat Rd., Tambon Map Ta Phut, Amphoe Mueang Rayong, Rayong, Thailand. 21150	Date Reported	Jun 15, 2026
		Report Number	RA2604740-AA
Project	WHA EIE		
Project Location	E-COATINGS ASIA COMPANY LIMITED_G-1/1__WWT_WHAEIE_001_2566		

Sample Number: RA2604740-001
Sampled Date: Jun 08, 2026 01:35 PM
Sample Name: Wastewater
Sampling Site: E-COATINGS ASIA COMPANY LIMITED
Contract ID: WWT_WHAEIE_001_2566
Plot: G-1/1
Date of Analysis: Jun 08, 2026
Sampled by: Waranyoo Chimphalee (1-323-4-0020)
Condition of Sample: [illegible]
Physical Properties: yellow, some odour, some solids, turbid

Brief Method Summaries

[illegible]

Method	Testing Lab	Method Descriptions
EN0023	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0100	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C
EN0102	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

—— END OF REPORT ——

Signatories

Jitsupa P.
Jitsupa [illegible]
Scientist (2)
1-323-4-0004

Daj Changchon
Senior Manager
1-323-A-0001

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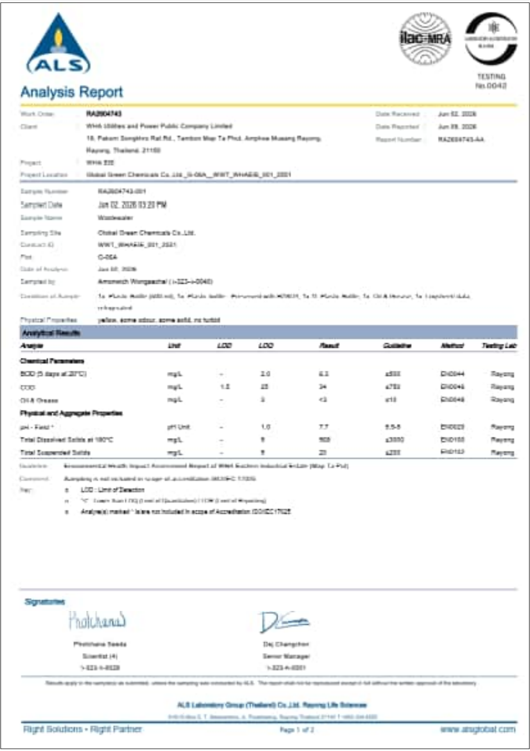

Analysis Report

TESTING No.0042

Work Order	RA2604743	Date Received	Jun 02, 2026
Client	WHA Utilities and Power Public Company Limited 18, Pakorn Songkhro Rat Rd., Tambon Map Ta Phut, Amphoe Mueang Rayong, Rayong, Thailand. 21150	Date Reported	Jun 09, 2026
		Report Number	RA2604743-AA
Project	WHA EIE		
Project Location	Global Green Chemicals Co.,Ltd._G-06A__WWT_WHAEIE_001_2021		

Sample Number: RA2604743-001
Sampled Date: Jun 02, 2026 03:23 PM
Sample Name: Wastewater
Sampling Site: Global Green Chemicals Co.,Ltd.
Contract ID: WWT_WHAEIE_001_2021
Plot: G-06A
Date of Analysis: Jun 02, 2026
Sampled by: Amornrich Wongpaichai (1-323-4-0040)
Condition of Sample: [illegible]
Physical Properties: yellow, some odour, some solid, no turbid

Analytical Results

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	6.3	≤500	EN0044	Rayong
COD	mg/L	1.5	25	34	≤750	EN0046	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	EN0048	Rayong
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.7	5.5-9	EN0023	Rayong
Total Dissolved Solids at 180°C	mg/L	-	5	508	≤3000	EN0100	Rayong
Total Suspended Solids	mg/L	-	5	20	≤200	EN0102	Rayong

Guideline: Environmental Health Impact Assessment Report of WHA Eastern Industrial Estate (Map Ta Phut)
Comment: Sampling is not included in scope of accreditation ISO/IEC 17025
Key:
- LOD : Limit of Detection
- [illegible]
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC17025

Signatories

Phatchana
Phatchana Saeda
Scientist (4)
1-323-4-0028

Daj Changchon
Senior Manager
1-323-A-0001

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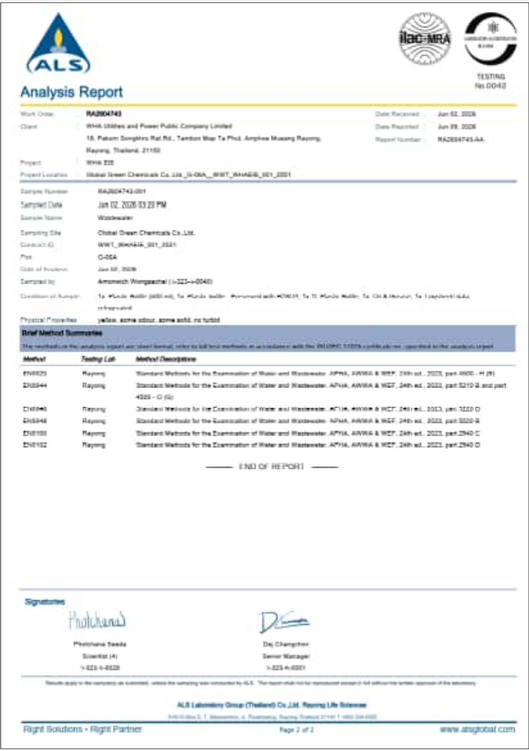

Analysis Report

TESTING No.0042

Work Order	RA2604743	Date Received	Jun 02, 2026
Client	WHA Utilities and Power Public Company Limited 18, Pakorn Songkhro Rat Rd., Tambon Map Ta Phut, Amphoe Mueang Rayong, Rayong, Thailand. 21150	Date Reported	Jun 09, 2026
		Report Number	RA2604743-AA
Project	WHA EIE		
Project Location	Global Green Chemicals Co.,Ltd._G-06A__WWT_WHAEIE_001_2021		

Sample Number: RA2604743-001
Sampled Date: Jun 02, 2026 03:23 PM
Sample Name: Wastewater
Sampling Site: Global Green Chemicals Co.,Ltd.
Contract ID: WWT_WHAEIE_001_2021
Plot: G-06A
Date of Analysis: Jun 02, 2026
Sampled by: Amornrich Wongpaichai (1-323-4-0040)
Condition of Sample: [illegible]
Physical Properties: yellow, some odour, some solid, no turbid

Brief Method Summaries

[illegible]

Method	Testing Lab	Method Descriptions
EN0023	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0100	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C
EN0102	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

—— END OF REPORT ——

Signatories

Phatchana
Phatchana Saeda
Scientist (4)
1-323-4-0028

Daj Changchon
Senior Manager
1-323-A-0001

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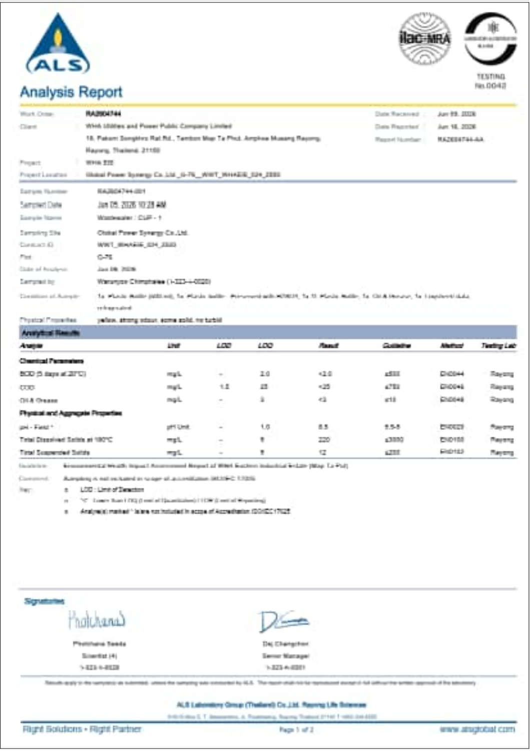

Analysis Report

TESTING No.0042

Work Order	RA2604744	Date Received	Jun 09, 2026
Client	WHA Utilities and Power Public Company Limited 18, Pakorn Songkhro Rat Rd., Tambon Map Ta Phut, Amphoe Mueang Rayong, Rayong, Thailand. 21150	Date Reported	Jun 16, 2026
		Report Number	RA2604744-AA
Project	WHA EIE		
Project Location	Global Power Synergy Co.,Ltd._G-7S__WWT_WHAEIE_024_2500		

Sample Number: RA2604744-001
Sampled Date: Jun 05, 2026 10:28 AM
Sample Name: Wastewater : CUP - 1
Sampling Site: Global Power Synergy Co.,Ltd.
Contract ID: WWT_WHAEIE_024_2500
Plot: G-7S
Date of Analysis: Jun 09, 2026
Sampled by: Waranyoo Chimphalee (1-323-4-0020)
Condition of Sample: [illegible]
Physical Properties: yellow, strong odour, some solid, no 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	Rayong
COD	mg/L	1.5	25	<25	≤750	EN0046	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	EN0048	Rayong
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	8.5	5.5-9	EN0023	Rayong
Total Dissolved Solids at 180°C	mg/L	-	5	220	≤3000	EN0100	Rayong
Total Suspended Solids	mg/L	-	5	12	≤200	EN0102	Rayong

Guideline: Environmental Health Impact Assessment Report of WHA Eastern Industrial Estate (Map Ta Phut)
Comment: Sampling is not included in scope of accreditation ISO/IEC 17025
Key:
- LOD : Limit of Detection
- [illegible]
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC17025

Signatories

Phatchana
Phatchana Saeda
Scientist (4)
1-323-4-0028

Daj Changchon
Senior Manager
1-323-A-0001

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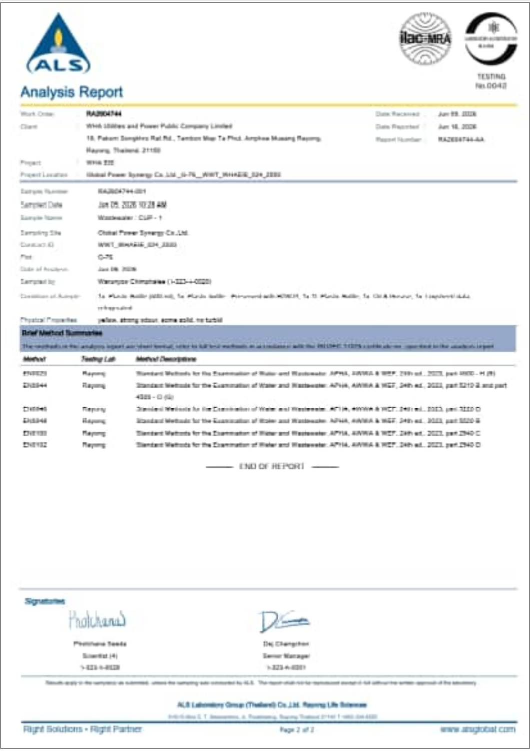

Analysis Report

TESTING No.0042

Work Order	RA2604744	Date Received	Jun 09, 2026
Client	WHA Utilities and Power Public Company Limited 18, Pakorn Songkhro Rat Rd., Tambon Map Ta Phut, Amphoe Mueang Rayong, Rayong, Thailand. 21150	Date Reported	Jun 16, 2026
		Report Number	RA2604744-AA
Project	WHA EIE		
Project Location	Global Power Synergy Co.,Ltd._G-7S__WWT_WHAEIE_024_2500		

Sample Number: RA2604744-001
Sampled Date: Jun 05, 2026 10:28 AM
Sample Name: Wastewater : CUP - 1
Sampling Site: Global Power Synergy Co.,Ltd.
Contract ID: WWT_WHAEIE_024_2500
Plot: G-7S
Date of Analysis: Jun 09, 2026
Sampled by: Waranyoo Chimphalee (1-323-4-0020)
Condition of Sample: [illegible]
Physical Properties: yellow, strong odour, some solid, no turbid

Brief Method Summaries

[illegible]

Method	Testing Lab	Method Descriptions
EN0023	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0100	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C
EN0102	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

—— END OF REPORT ——

Signatories

Phatchana
Phatchana Saeda
Scientist (4)
1-323-4-0028

Daj Changchon
Senior Manager
1-323-A-0001

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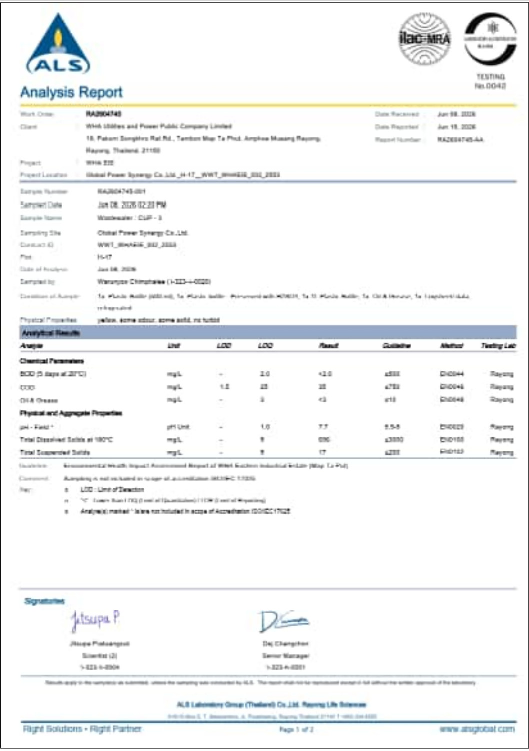

Analysis Report

TESTING No.0042

Work Order	RA2604745	Date Received	Jun 08, 2026
Client	WHA Utilities and Power Public Company Limited 18, Pakorn Songkhro Rat Rd., Tambon Map Ta Phut, Amphoe Mueang Rayong, Rayong, Thailand. 21150	Date Reported	Jun 15, 2026
		Report Number	RA2604745-AA
Project	WHA EIE		
Project Location	Global Power Synergy Co.,Ltd._H-17__WWT_WHAEIE_002_2553		

Sample Number: RA2604745-001
Sampled Date: Jun 08, 2026 02:23 PM
Sample Name: Wastewater : CUP - 3
Sampling Site: Global Power Synergy Co.,Ltd.
Contract ID: WWT_WHAEIE_002_2553
Plot: H-17
Date of Analysis: Jun 08, 2026
Sampled by: Waranyoo Chimphalee (1-323-4-0020)
Condition of Sample: [illegible]
Physical Properties: yellow, some odour, some solid, no 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	Rayong
COD	mg/L	1.5	25	35	≤750	EN0046	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	EN0048	Rayong
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.7	5.5-9	EN0023	Rayong
Total Dissolved Solids at 180°C	mg/L	-	5	696	≤3000	EN0100	Rayong
Total Suspended Solids	mg/L	-	5	17	≤200	EN0102	Rayong

Guideline: Environmental Health Impact Assessment Report of WHA Eastern Industrial Estate (Map Ta Phut)
Comment: Sampling is not included in scope of accreditation ISO/IEC 17025
Key:
- LOD : Limit of Detection
- [illegible]
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC17025

Signatories

Jitsupa P.
Jitsupa [illegible]
Scientist (2)
1-323-4-0004

Daj Changchon
Senior Manager
1-323-A-0001

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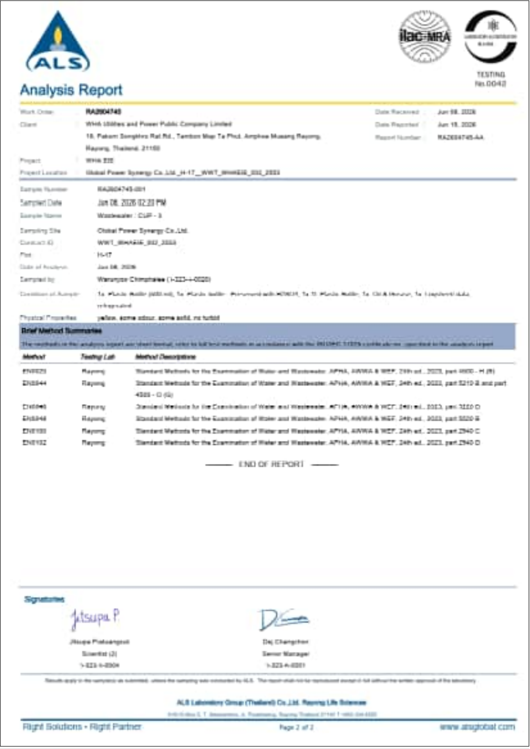

Analysis Report

Work Order: **RA2604745**
Client: WHA Utilities and Power Public Company Limited
18, Pakorn Songkhro Rat Rd., Tambon Map Ta Phut, Amphoe Mueang Rayong, Rayong, Thailand, 21150
Project: WHA EIE
Project Location: Global Power Synergy Co.,Ltd._H-17__WWT_WHAEIE_002_2553
Date Received: Jun 08, 2026
Date Reported: Jun 15, 2026
Report Number: RA2604745-AA

Sample Number: RA2604745-001
Sampled Date: Jun 08, 2026 02:23 PM
Sample Name: Wastewater : CUF - 3
Sampling Site: Global Power Synergy Co.,Ltd.
Contract ID: WWT_WHAEIE_002_2553
Plot: H-17
Date of Analysis: Jun 08, 2026
Sampled by: Waranyoo Chimphalee (1-323-1-0020)
Physical Properties: yellow, some odour, some solid, no turbid

Brief Method Summaries

Method	Testing Lab	Method Descriptions
EN0023	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0150	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C
EN0152	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

END OF REPORT

Signatories
Jitsupa P.
Jitsupa Pisitsangsut
Scientist (2)
Dej Changchon
Senior Manager

ALS Laboratory Group (Thailand) Co.,Ltd. Rayong Life Sciences

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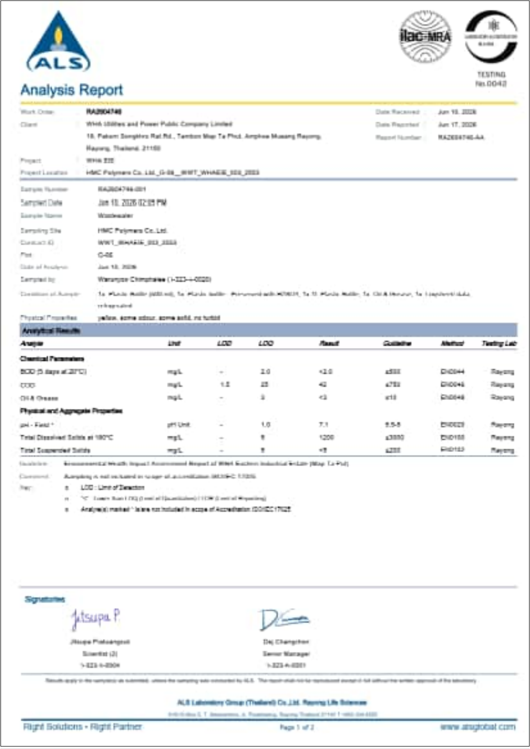

Analysis Report

Work Order: **RA2604746**
Client: WHA Utilities and Power Public Company Limited
18, Pakorn Songkhro Rat Rd., Tambon Map Ta Phut, Amphoe Mueang Rayong, Rayong, Thailand, 21150
Project: WHA EIE
Project Location: HMC Polymers Co.,Ltd._G-08__WWT_WHAEIE_003_2553
Date Received: Jun 10, 2026
Date Reported: Jun 17, 2026
Report Number: RA2604746-AA

Sample Number: RA2604746-001
Sampled Date: Jun 10, 2026 02:05 PM
Sample Name: Wastewater
Sampling Site: HMC Polymers Co.,Ltd.
Contract ID: WWT_WHAEIE_003_2553
Plot: G-08
Date of Analysis: Jun 10, 2026
Sampled by: Waranyoo Chimphalee (1-323-1-0020)
Physical Properties: yellow, some odour, some solid, no 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	Rayong
COD	mg/L	1.5	25	42	≤750	EN0046	Rayong
Oil & Grease	mg/L	–	3	<3	≤10	EN0048	Rayong
Physical and Aggregate Properties							
pH - Field *	pH Unit	–	1.0	7.1	5.5-9	EN0023	Rayong
Total Dissolved Solids at 180°C	mg/L	–	5	1200	≤3000	EN0150	Rayong
Total Suspended Solids	mg/L	–	5	<5	≤200	EN0152	Rayong

Key:
- LOD : Limit of Detection
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC17025

Signatories
Jitsupa P.
Jitsupa Pisitsangsut
Scientist (2)
Dej Changchon
Senior Manager

ALS Laboratory Group (Thailand) Co.,Ltd. Rayong Life Sciences

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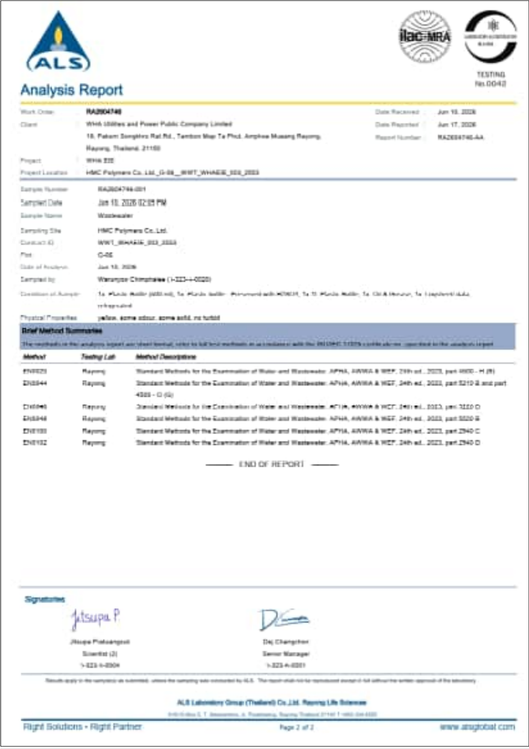

Analysis Report

Work Order: **RA2604746**
Client: WHA Utilities and Power Public Company Limited
18, Pakorn Songkhro Rat Rd., Tambon Map Ta Phut, Amphoe Mueang Rayong, Rayong, Thailand, 21150
Project: WHA EIE
Project Location: HMC Polymers Co.,Ltd._G-08__WWT_WHAEIE_003_2553
Date Received: Jun 10, 2026
Date Reported: Jun 17, 2026
Report Number: RA2604746-AA

Sample Number: RA2604746-001
Sampled Date: Jun 10, 2026 02:05 PM
Sample Name: Wastewater
Sampling Site: HMC Polymers Co.,Ltd.
Contract ID: WWT_WHAEIE_003_2553
Plot: G-08
Date of Analysis: Jun 10, 2026
Sampled by: Waranyoo Chimphalee (1-323-1-0020)
Physical Properties: yellow, some odour, some solid, no turbid

Brief Method Summaries

Method	Testing Lab	Method Descriptions
EN0023	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0150	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C
EN0152	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

END OF REPORT

Signatories
Jitsupa P.
Jitsupa Pisitsangsut
Scientist (2)
Dej Changchon
Senior Manager

ALS Laboratory Group (Thailand) Co.,Ltd. Rayong Life Sciences

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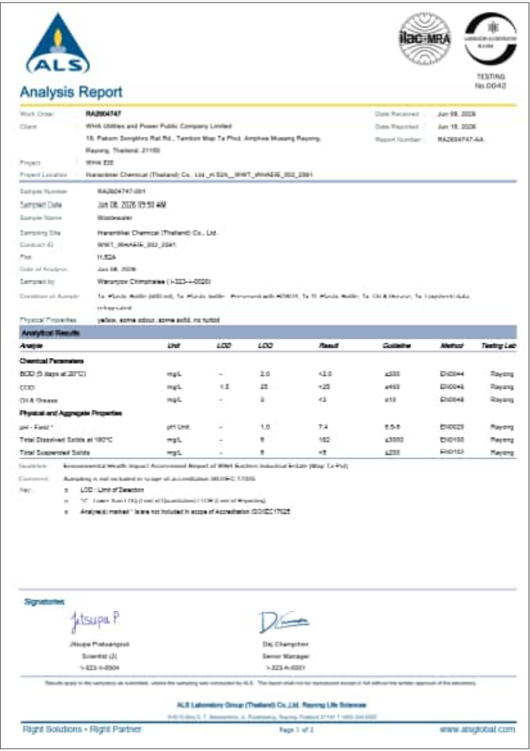

Analysis Report

Work Order: **RA2604747**
Client: WHA Utilities and Power Public Company Limited
18, Pakorn Songkhro Rat Rd., Tambon Map Ta Phut, Amphoe Mueang Rayong, Rayong, Thailand, 21150
Project: WHA EIE
Project Location: Haramkhai Chemical (Thailand) Co., Ltd._H.52A__WWT_WHAEIE_002_2561
Date Received: Jun 08, 2026
Date Reported: Jun 15, 2026
Report Number: RA2604747-AA

Sample Number: RA2604747-001
Sampled Date: Jun 08, 2026 09:50 AM
Sample Name: Wastewater
Sampling Site: Haramkhai Chemical (Thailand) Co., Ltd.
Contract ID: WWT_WHAEIE_002_2561
Plot: H.52A
Date of Analysis: Jun 08, 2026
Sampled by: Waranyoo Chimphalee (1-323-1-0020)
Physical Properties: yellow, some odour, some solid, no 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	Rayong
COD	mg/L	1.5	25	<25	≤400	EN0046	Rayong
Oil & Grease	mg/L	–	3	<3	≤10	EN0048	Rayong
Physical and Aggregate Properties							
pH - Field *	pH Unit	–	1.0	7.4	5.5-9	EN0023	Rayong
Total Dissolved Solids at 180°C	mg/L	–	5	182	≤3000	EN0150	Rayong
Total Suspended Solids	mg/L	–	5	<5	≤200	EN0152	Rayong

Key:
- LOD : Limit of Detection
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC17025

Signatories
Jitsupa P.
Jitsupa Pisitsangsut
Scientist (2)
Dej Changchon
Senior Manager

ALS Laboratory Group (Thailand) Co.,Ltd. Rayong Life Sciences

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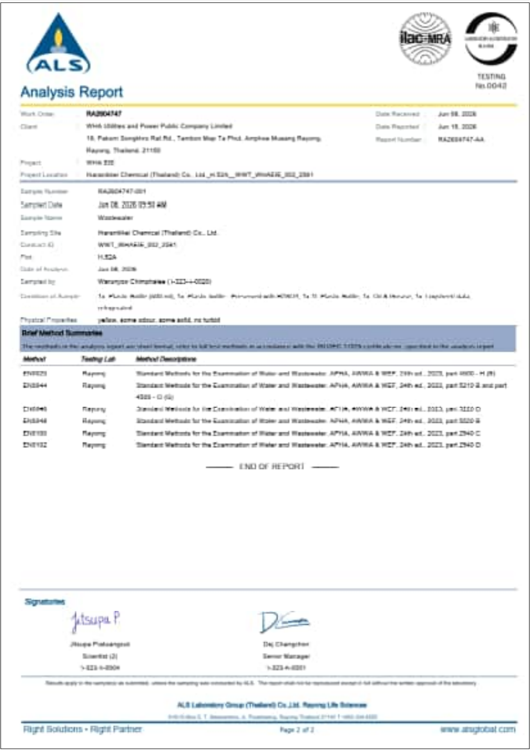

Analysis Report

Work Order: **RA2604747**
Client: WHA Utilities and Power Public Company Limited
18, Pakorn Songkhro Rat Rd., Tambon Map Ta Phut, Amphoe Mueang Rayong, Rayong, Thailand, 21150
Project: WHA EIE
Project Location: Haramkhai Chemical (Thailand) Co., Ltd._H.52A__WWT_WHAEIE_002_2561
Date Received: Jun 08, 2026
Date Reported: Jun 15, 2026
Report Number: RA2604747-AA

Sample Number: RA2604747-001
Sampled Date: Jun 08, 2026 09:50 AM
Sample Name: Wastewater
Sampling Site: Haramkhai Chemical (Thailand) Co., Ltd.
Contract ID: WWT_WHAEIE_002_2561
Plot: H.52A
Date of Analysis: Jun 08, 2026
Sampled by: Waranyoo Chimphalee (1-323-1-0020)
Physical Properties: yellow, some odour, some solid, no turbid

Brief Method Summaries

Method	Testing Lab	Method Descriptions
EN0023	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0150	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C
EN0152	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

END OF REPORT

Signatories
Jitsupa P.
Jitsupa Pisitsangsut
Scientist (2)
Dej Changchon
Senior Manager

ALS Laboratory Group (Thailand) Co.,Ltd. Rayong Life Sciences

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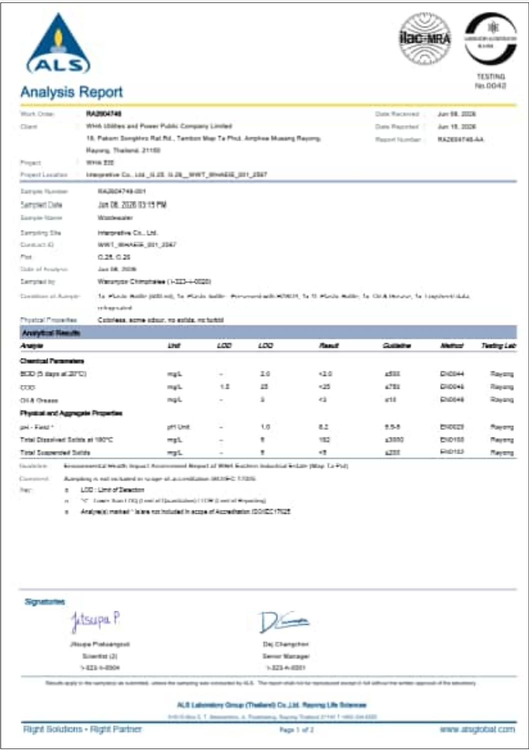

Analysis Report

Work Order: **RA2604748**
Client: WHA Utilities and Power Public Company Limited
18, Pakorn Songkhro Rat Rd., Tambon Map Ta Phut, Amphoe Mueang Rayong, Rayong, Thailand, 21150
Project: WHA EIE
Project Location: Interpretive Co., Ltd._G.25, G.26__WWT_WHAEIE_001_2567
Date Received: Jun 08, 2026
Date Reported: Jun 15, 2026
Report Number: RA2604748-AA

Sample Number: RA2604748-001
Sampled Date: Jun 08, 2026 03:15 PM
Sample Name: Wastewater
Sampling Site: Interpretive Co., Ltd.
Contract ID: WWT_WHAEIE_001_2567
Plot: G.25, G.26
Date of Analysis: Jun 08, 2026
Sampled by: Waranyoo Chimphalee (1-323-1-0020)
Physical Properties: Colorless, some odour, no solids, no 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	Rayong
COD	mg/L	1.5	25	<25	≤750	EN0046	Rayong
Oil & Grease	mg/L	–	3	<3	≤10	EN0048	Rayong
Physical and Aggregate Properties							
pH - Field *	pH Unit	–	1.0	8.2	5.5-9	EN0023	Rayong
Total Dissolved Solids at 180°C	mg/L	–	5	182	≤3000	EN0150	Rayong
Total Suspended Solids	mg/L	–	5	<5	≤200	EN0152	Rayong

Key:
- LOD : Limit of Detection
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC17025

Signatories
Jitsupa P.
Jitsupa Pisitsangsut
Scientist (2)
Dej Changchon
Senior Manager

ALS Laboratory Group (Thailand) Co.,Ltd. Rayong Life Sciences

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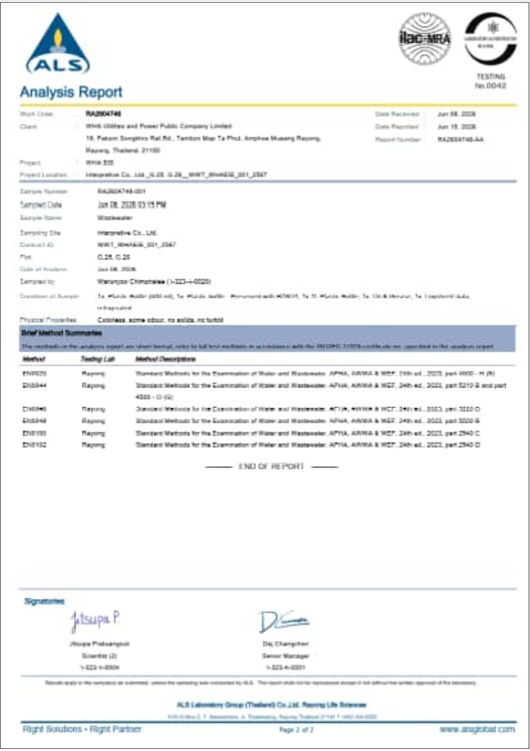

Analysis Report

Work Order: **RA2604748**
Client: WHA Utilities and Power Public Company Limited
18, Pakorn Songkhro Rat Rd., Tambon Map Ta Phut, Amphoe Mueang Rayong, Rayong, Thailand, 21150
Project: WHA EIE
Project Location: Interpretive Co., Ltd._G.25, G.26__WWT_WHAEIE_001_2567
Date Received: Jun 08, 2026
Date Reported: Jun 15, 2026
Report Number: RA2604748-AA

Sample Number: RA2604748-001
Sampled Date: Jun 08, 2026 03:15 PM
Sample Name: Wastewater
Sampling Site: Interpretive Co., Ltd.
Contract ID: WWT_WHAEIE_001_2567
Plot: G.25, G.26
Date of Analysis: Jun 08, 2026
Sampled by: Waranyoo Chimphalee (1-323-1-0020)
Physical Properties: Colorless, some odour, no solids, no turbid

Brief Method Summaries

Method	Testing Lab	Method Descriptions
EN0023	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0150	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C
EN0152	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

END OF REPORT

Signatories
Jitsupa P.
Jitsupa Pisitsangsut
Scientist (2)
Dej Changchon
Senior Manager

ALS Laboratory Group (Thailand) Co.,Ltd. Rayong Life Sciences

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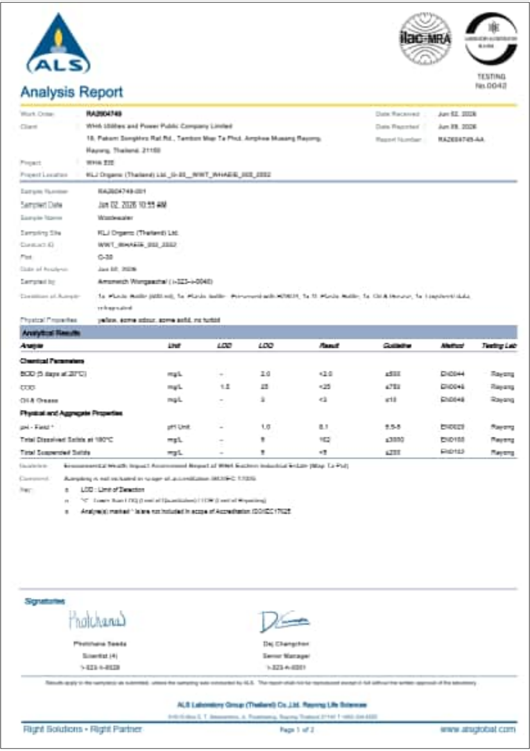


Analysis Report

Work Order: **RA2604749**
Client: WHA Utilities and Power Public Company Limited
18, Pakorn Songkhro Rat Rd., Tambon Map Ta Phut, Amphoe Mueang Rayong, Rayong, Thailand, 21150
Project: WHA EIE
Project Location: KLJ Organic (Thailand) Ltd._G-30__WWT_WHAEIE_003_2552
Date Received: Jun 02, 2026
Date Reported: Jun 09, 2026
Report Number: RA2604749-AA

Sample Number: RA2604749-001
Sampled Date: Jun 02, 2026 10:55 AM
Sample Name: Wastewater
Sampling Site: KLJ Organic (Thailand) Ltd.
Contract ID: WWT_WHAEIE_003_2552
Plot: G-30
Date of Analysis: Jun 02, 2026
Sampled by: Amornrich Wongsachai (1-323-1-0040)
Physical Properties: yellow, some odour, some solid, no turbid

Analytical Results

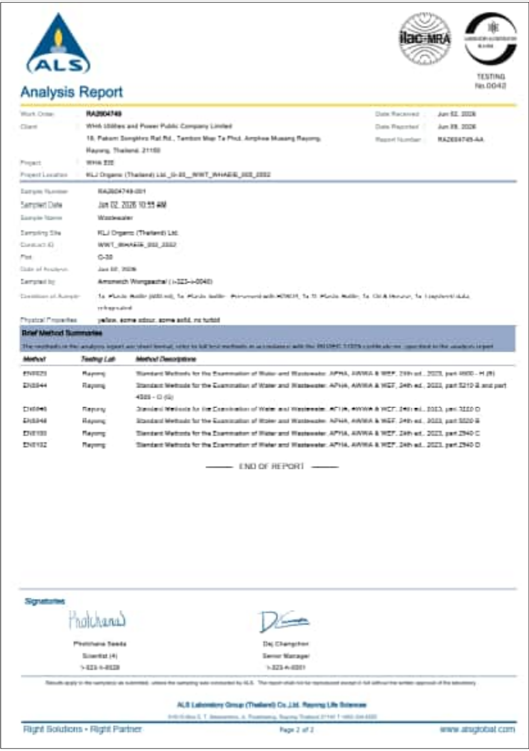
Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	–	2.0	<2.0	≤500	EN0044	Rayong
COD	mg/L	1.5	25	<25	≤750	EN0046	Rayong
Oil & Grease	mg/L	–	3	<3	≤10	EN0048	Rayong
Physical and Aggregate Properties							
pH - Field *	pH Unit	–	1.0	8.1	5.5-9	EN0023	Rayong
Total Dissolved Solids at 180°C	mg/L	–	5	162	≤3000	EN0150	Rayong
Total Suspended Solids	mg/L	–	5	<5	≤200	EN0152	Rayong

Key:
- LOD : Limit of Detection
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC17025

Signatories
Photchana
Photchana Saeda
Scientist (4)
Dej Changchon
Senior Manager

ALS Laboratory Group (Thailand) Co.,Ltd. Rayong Life Sciences

---



Analysis Report

Work Order: **RA2604749**
Client: WHA Utilities and Power Public Company Limited
18, Pakorn Songkhro Rat Rd., Tambon Map Ta Phut, Amphoe Mueang Rayong, Rayong, Thailand, 21150
Project: WHA EIE
Project Location: KLJ Organic (Thailand) Ltd._G-30__WWT_WHAEIE_003_2552
Date Received: Jun 02, 2026
Date Reported: Jun 09, 2026
Report Number: RA2604749-AA

Sample Number: RA2604749-001
Sampled Date: Jun 02, 2026 10:55 AM
Sample Name: Wastewater
Sampling Site: KLJ Organic (Thailand) Ltd.
Contract ID: WWT_WHAEIE_003_2552
Plot: G-30
Date of Analysis: Jun 02, 2026
Sampled by: Amornrich Wongsachai (1-323-1-0040)
Physical Properties: yellow, some odour, some solid, no turbid

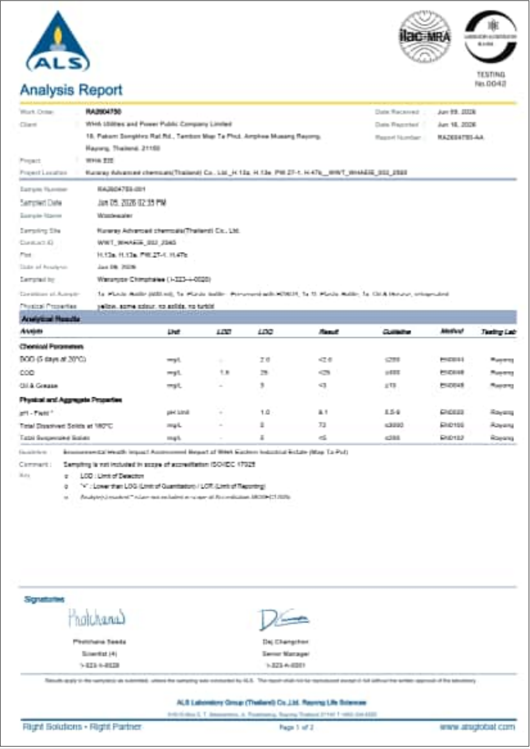
Brief Method Summaries

Method	Testing Lab	Method Descriptions
EN0023	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0150	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C
EN0152	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

END OF REPORT

Signatories
Photchana
Photchana Saeda
Scientist (4)
Dej Changchon
Senior Manager

ALS Laboratory Group (Thailand) Co.,Ltd. Rayong Life Sciences



Analysis Report

TESTING
No.0042

Work Order: RA2604750
Client: WHA Utilities and Power Public Company Limited
18, Pakorn Songkhro Rat Rd., Tambon Map Ta Phut, Amphoe Mueang Rayong,
Rayong, Thailand. 21150
Project: WHA EIE
Project Location: Kuraray Advanced chemicals(Thailand) Co., Ltd._H.13a, H.13e, PW.27-1, H.47b__WWT_WHAEIE_002_2565
Date Received: Jun 09, 2026
Date Reported: Jun 16, 2026
Report Number: RA2604750-AA

Sample Number: RA2604750-001
Sampled Date: Jun 05, 2026 02:35 PM
Sample Name: Wastewater
Sampling Site: Kuraray Advanced chemicals(Thailand) Co., Ltd.
Contact ID: WWT_WHAEIE_002_2565
Plot: H.13a, H.13a, PW.27-1, H.47b
Date of Analysis: Jun 09, 2026
Sampled by: Waranyoo Chimphalee (1-323-4-0020)
Condition of Sample: [illegible]
Physical Properties: yellow, some odour, no solids, no 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	≤200	EN0044	Rayong
COD	mg/L	1.5	25	<25	≤400	EN0046	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	EN0048	Rayong
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	8.1	5.5-9	EN0023	Rayong
Total Dissolved Solids at 180°C	mg/L	-	5	73	≤3000	EN0100	Rayong
Total Suspended Solids	mg/L	-	5	<5	≤200	EN0102	Rayong

Guideline: Environmental Health Impact Assessment Report of WHA Eastern Industrial Estate (Map Ta Phut)
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)
- [illegible]

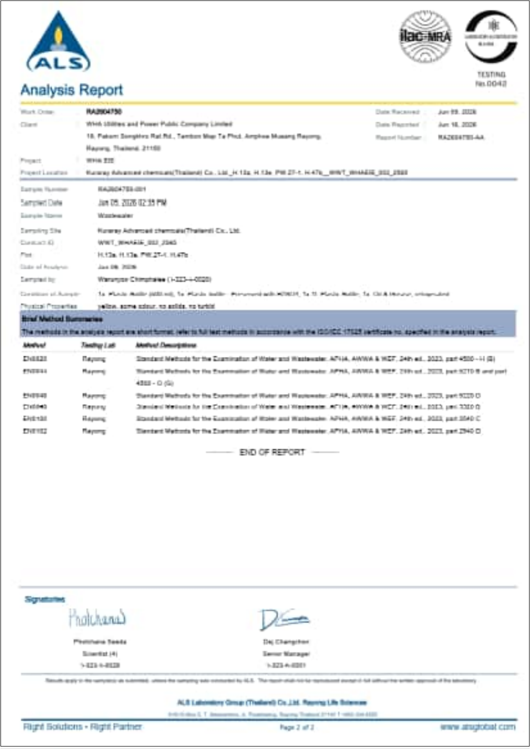
Signatories

Photchana
Photchana Seeda
Scientist (4)
1-323-4-0028

Dej Changchon
Senior Manager
1-323-4-0001

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. Rayong Life Sciences
[illegible]



Analysis Report

TESTING
No.0042

Work Order: RA2604750
Client: WHA Utilities and Power Public Company Limited
18, Pakorn Songkhro Rat Rd., Tambon Map Ta Phut, Amphoe Mueang Rayong,
Rayong, Thailand. 21150
Project: WHA EIE
Project Location: Kuraray Advanced chemicals(Thailand) Co., Ltd._H.13a, H.13e, PW.27-1, H.47b__WWT_WHAEIE_002_2565
Date Received: Jun 09, 2026
Date Reported: Jun 16, 2026
Report Number: RA2604750-AA

Sample Number: RA2604750-001
Sampled Date: Jun 05, 2026 02:35 PM
Sample Name: Wastewater
Sampling Site: Kuraray Advanced chemicals(Thailand) Co., Ltd.
Contact ID: WWT_WHAEIE_002_2565
Plot: H.13a, H.13a, PW.27-1, H.47b
Date of Analysis: Jun 09, 2026
Sampled by: Waranyoo Chimphalee (1-323-4-0020)
Condition of Sample: [illegible]
Physical Properties: yellow, some odour, no solids, no 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
EN0023	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0100	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C
EN0102	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

END OF REPORT

Signatories

Photchana
Photchana Seeda
Scientist (4)
1-323-4-0028

Dej Changchon
Senior Manager
1-323-4-0001

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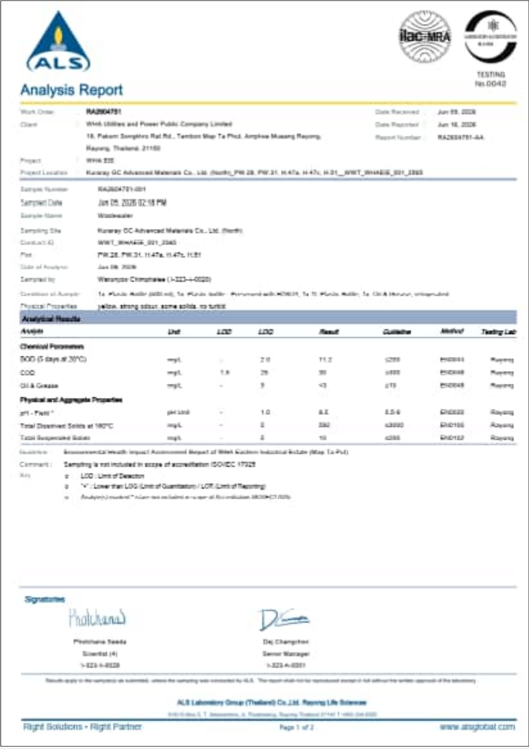
ALS Laboratory Group (Thailand) Co.,Ltd. Rayong Life Sciences
[illegible]



Analysis Report

TESTING
No.0042

Work Order: RA2604751
Client: WHA Utilities and Power Public Company Limited
18, Pakorn Songkhro Rat Rd., Tambon Map Ta Phut, Amphoe Mueang Rayong,
Rayong, Thailand. 21150
Project: WHA EIE
Project Location: Kuraray GC Advanced Materials Co., Ltd. (North)_PW.28, PW.31, H.47a, H.47c, H.01__WWT_WHAEIE_001_2565
Date Received: Jun 09, 2026
Date Reported: Jun 16, 2026
Report Number: RA2604751-AA

Sample Number: RA2604751-001
Sampled Date: Jun 05, 2026 02:18 PM
Sample Name: Wastewater
Sampling Site: Kuraray GC Advanced Materials Co., Ltd. (North)
Contact ID: WWT_WHAEIE_001_2565
Plot: PW.28, PW.31, H.47a, H.47c, H.51
Date of Analysis: Jun 09, 2026
Sampled by: Waranyoo Chimphalee (1-323-4-0020)
Condition of Sample: [illegible]
Physical Properties: yellow, strong odour, some solids, no turbid

Analytical Results

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	11.2	≤200	EN0044	Rayong
COD	mg/L	1.5	25	30	≤400	EN0046	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	EN0048	Rayong
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	8.2	5.5-9	EN0023	Rayong
Total Dissolved Solids at 180°C	mg/L	-	5	392	≤3000	EN0100	Rayong
Total Suspended Solids	mg/L	-	5	10	≤200	EN0102	Rayong

Guideline: Environmental Health Impact Assessment Report of WHA Eastern Industrial Estate (Map Ta Phut)
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)
- [illegible]

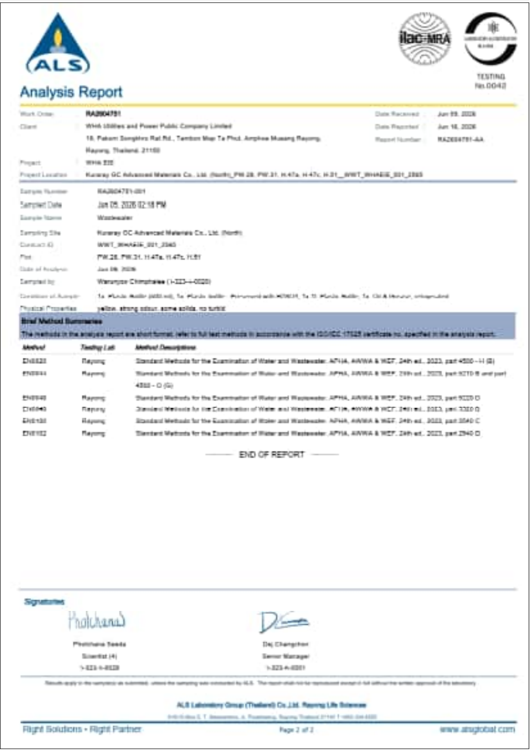
Signatories

Photchana
Photchana Seeda
Scientist (4)
1-323-4-0028

Dej Changchon
Senior Manager
1-323-4-0001

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. Rayong Life Sciences
[illegible]



Analysis Report

TESTING
No.0042

Work Order: RA2604751
Client: WHA Utilities and Power Public Company Limited
18, Pakorn Songkhro Rat Rd., Tambon Map Ta Phut, Amphoe Mueang Rayong,
Rayong, Thailand. 21150
Project: WHA EIE
Project Location: Kuraray GC Advanced Materials Co., Ltd. (North)_PW.28, PW.31, H.47a, H.47c, H.01__WWT_WHAEIE_001_2565
Date Received: Jun 09, 2026
Date Reported: Jun 16, 2026
Report Number: RA2604751-AA

Sample Number: RA2604751-001
Sampled Date: Jun 05, 2026 02:18 PM
Sample Name: Wastewater
Sampling Site: Kuraray GC Advanced Materials Co., Ltd. (North)
Contact ID: WWT_WHAEIE_001_2565
Plot: PW.28, PW.31, H.47a, H.47c, H.51
Date of Analysis: Jun 09, 2026
Sampled by: Waranyoo Chimphalee (1-323-4-0020)
Condition of Sample: [illegible]
Physical Properties: yellow, strong odour, some solids, no 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
EN0023	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0100	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C
EN0102	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

END OF REPORT

Signatories

Photchana
Photchana Seeda
Scientist (4)
1-323-4-0028

Dej Changchon
Senior Manager
1-323-4-0001

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. Rayong Life Sciences
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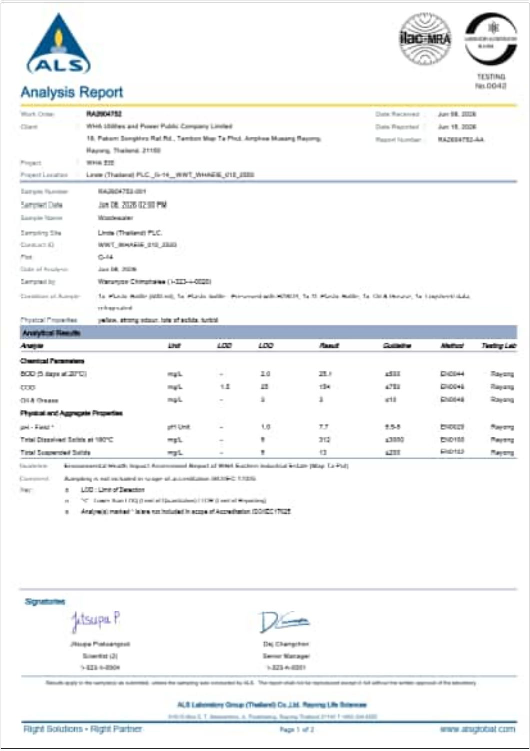


Analysis Report

TESTING
No.0042

Work Order: RA2604752
Client: WHA Utilities and Power Public Company Limited
18, Pakorn Songkhro Rat Rd., Tambon Map Ta Phut, Amphoe Mueang Rayong,
Rayong, Thailand. 21150
Project: WHA EIE
Project Location: Linde (Thailand) PLC._G-14__WWT_WHAEIE_010_2560
Date Received: Jun 08, 2026
Date Reported: Jun 15, 2026
Report Number: RA2604752-AA

Sample Number: RA2604752-001
Sampled Date: Jun 08, 2026 02:00 PM
Sample Name: Wastewater
Sampling Site: Linde (Thailand) PLC.
Contact ID: WWT_WHAEIE_010_2560
Plot: G-14
Date of Analysis: Jun 08, 2026
Sampled by: Waranyoo Chimphalee (1-323-4-0020)
Condition of Sample: [illegible]
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	25.1	≤500	EN0044	Rayong
COD	mg/L	1.5	25	154	≤750	EN0046	Rayong
Oil & Grease	mg/L	-	3	3	≤10	EN0048	Rayong
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.7	5.5-9	EN0023	Rayong
Total Dissolved Solids at 180°C	mg/L	-	5	312	≤3000	EN0100	Rayong
Total Suspended Solids	mg/L	-	5	13	≤200	EN0102	Rayong

Guideline: Environmental Health Impact Assessment Report of WHA Eastern Industrial Estate (Map Ta Phut)
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

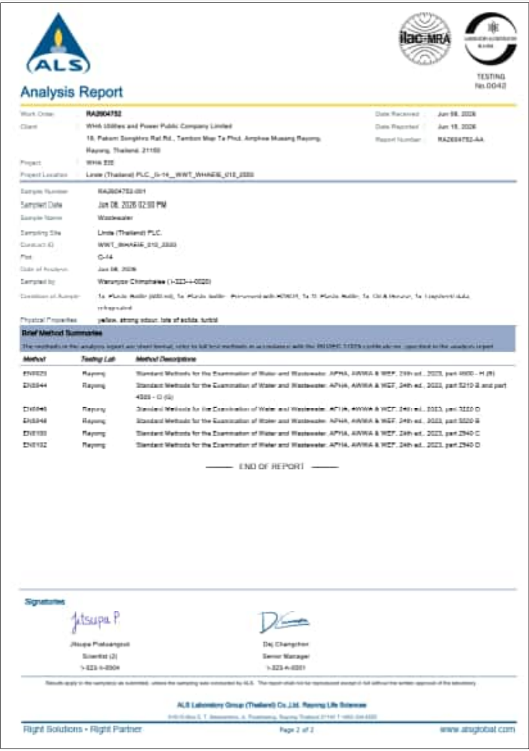
Signatories

Jitsupa P.
Jitsupa Plaksangsuk
Scientist (2)
1-323-4-0304

Dej Changchon
Senior Manager
1-323-4-0001

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. Rayong Life Sciences
[illegible]



Analysis Report

TESTING
No.0042

Work Order: RA2604752
Client: WHA Utilities and Power Public Company Limited
18, Pakorn Songkhro Rat Rd., Tambon Map Ta Phut, Amphoe Mueang Rayong,
Rayong, Thailand. 21150
Project: WHA EIE
Project Location: Linde (Thailand) PLC._G-14__WWT_WHAEIE_010_2560
Date Received: Jun 08, 2026
Date Reported: Jun 15, 2026
Report Number: RA2604752-AA

Sample Number: RA2604752-001
Sampled Date: Jun 08, 2026 02:00 PM
Sample Name: Wastewater
Sampling Site: Linde (Thailand) PLC.
Contact ID: WWT_WHAEIE_010_2560
Plot: G-14
Date of Analysis: Jun 08, 2026
Sampled by: Waranyoo Chimphalee (1-323-4-0020)
Condition of Sample: [illegible]
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
EN0023	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0100	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C
EN0102	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

END OF REPORT

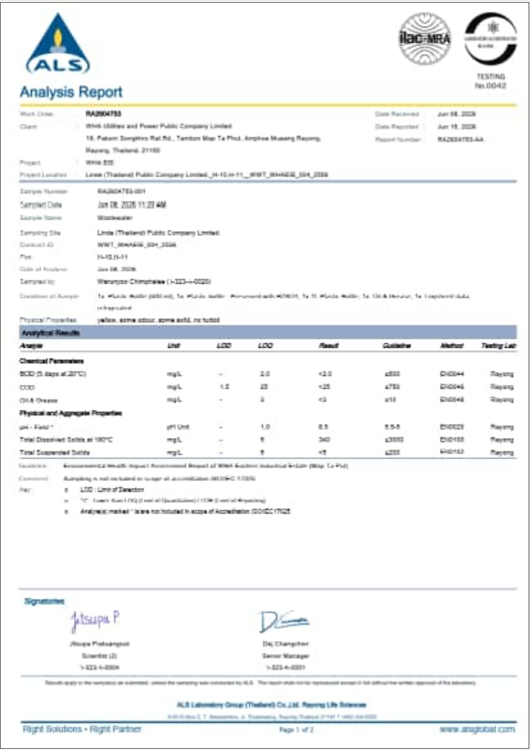
Signatories

Jitsupa P.
Jitsupa Plaksangsuk
Scientist (2)
1-323-4-0304

Dej Changchon
Senior Manager
1-323-4-0001

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. Rayong Life Sciences
[illegible]



Analysis Report

TESTING
No.0042

Work Order: RA2604753
Client: WHA Utilities and Power Public Company Limited
18, Pakorn Songkhro Rat Rd., Tambon Map Ta Phut, Amphoe Mueang Rayong,
Rayong, Thailand. 21150
Project: WHA EIE
Project Location: Linde (Thailand) Public Company Limited._H-10,H-11__WWT_WHAEIE_004_2556
Date Received: Jun 08, 2026
Date Reported: Jun 15, 2026
Report Number: RA2604753-AA

Sample Number: RA2604753-001
Sampled Date: Jun 08, 2026 11:20 AM
Sample Name: Wastewater
Sampling Site: Linde (Thailand) Public Company Limited.
Contact ID: WWT_WHAEIE_004_2556
Plot: H-10,H-11
Date of Analysis: Jun 08, 2026
Sampled by: Waranyoo Chimphalee (1-323-4-0020)
Condition of Sample: [illegible]
Physical Properties: yellow, some odour, some solid, no 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	Rayong
COD	mg/L	1.5	25	<25	≤750	EN0046	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	EN0048	Rayong
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	8.5	5.5-9	EN0023	Rayong
Total Dissolved Solids at 180°C	mg/L	-	5	340	≤3000	EN0100	Rayong
Total Suspended Solids	mg/L	-	5	<5	≤200	EN0102	Rayong

Guideline: Environmental Health Impact Assessment Report of WHA Eastern Industrial Estate (Map Ta Phut)
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

Jitsupa P.
Jitsupa Plaksangsuk
Scientist (2)
1-323-4-0304

Dej Changchon
Senior Manager
1-323-4-0001

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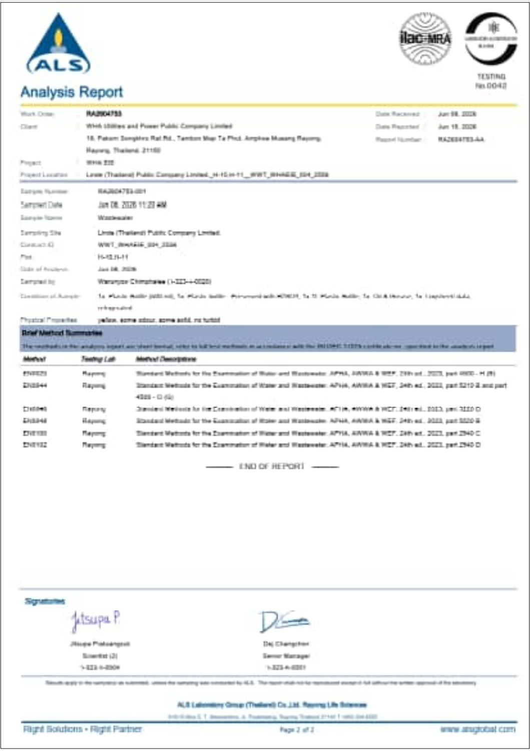
ALS Laboratory Group (Thailand) Co.,Ltd. Rayong Life Sciences
[illegible]



Analysis Report

TESTING
No.0042

Work Order: RA2604753
Client: WHA Utilities and Power Public Company Limited
18, Pakorn Songkhro Rat Rd., Tambon Map Ta Phut, Amphoe Mueang Rayong,
Rayong, Thailand. 21150
Project: WHA EIE
Project Location: Linde (Thailand) Public Company Limited._H-10,H-11__WWT_WHAEIE_004_2556
Date Received: Jun 08, 2026
Date Reported: Jun 15, 2026
Report Number: RA2604753-AA

Sample Number: RA2604753-001
Sampled Date: Jun 08, 2026 11:20 AM
Sample Name: Wastewater
Sampling Site: Linde (Thailand) Public Company Limited.
Contact ID: WWT_WHAEIE_004_2556
Plot: H-10,H-11
Date of Analysis: Jun 08, 2026
Sampled by: Waranyoo Chimphalee (1-323-4-0020)
Condition of Sample: [illegible]
Physical Properties: yellow, some odour, some solid, no 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
EN0023	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0100	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C
EN0102	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

END OF REPORT

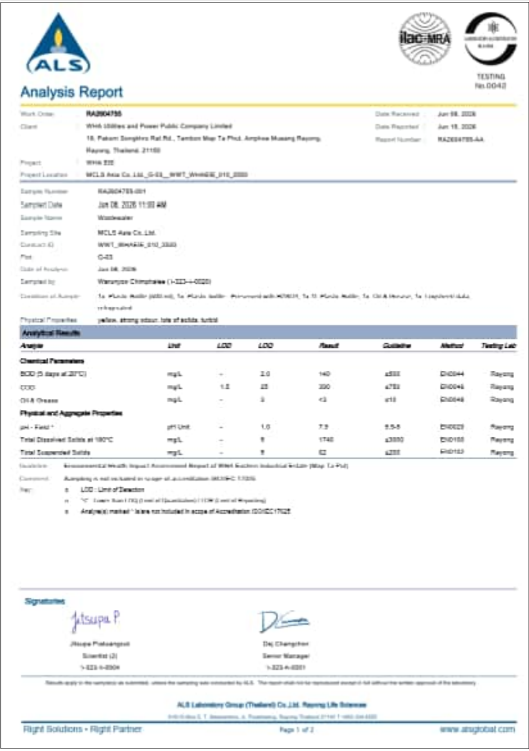
Signatories

Jitsupa P.
Jitsupa Plaksangsuk
Scientist (2)
1-323-4-0304

Dej Changchon
Senior Manager
1-323-4-0001

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. Rayong Life Sciences
[illegible]



Analysis Report

TESTING
No.0042

Work Order: RA2604755
Client: WHA Utilities and Power Public Company Limited
18, Pakorn Songkhro Rat Rd., Tambon Map Ta Phut, Amphoe Mueang Rayong,
Rayong, Thailand. 21150
Project: WHA EIE
Project Location: MCLS Asia Co.,Ltd._G-03__WWT_WHAEIE_010_2560
Date Received: Jun 08, 2026
Date Reported: Jun 15, 2026
Report Number: RA2604755-AA

Sample Number: RA2604755-001
Sampled Date: Jun 08, 2026 11:00 AM
Sample Name: Wastewater
Sampling Site: MCLS Asia Co.,Ltd.
Contact ID: WWT_WHAEIE_010_2560
Plot: G-03
Date of Analysis: Jun 08, 2026
Sampled by: Waranyoo Chimphalee (1-323-4-0020)
Condition of Sample: [illegible]
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	140	≤500	EN0044	Rayong
COD	mg/L	1.5	25	330	≤750	EN0046	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	EN0048	Rayong
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.3	5.5-9	EN0023	Rayong
Total Dissolved Solids at 180°C	mg/L	-	5	1740	≤3000	EN0100	Rayong
Total Suspended Solids	mg/L	-	5	62	≤200	EN0102	Rayong

Guideline: Environmental Health Impact Assessment Report of WHA Eastern Industrial Estate (Map Ta Phut)
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

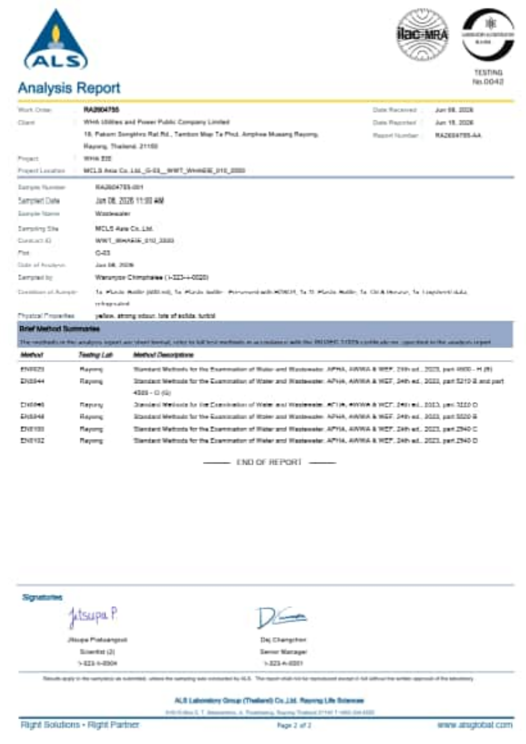
Signatories

Jitsupa P.
Jitsupa Plaksangsuk
Scientist (2)
1-323-4-0304

Dej Changchon
Senior Manager
1-323-4-0001

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. Rayong Life Sciences
[illegible]



Analysis Report

TESTING No.0042

Brief Method Summaries

——— END OF REPORT ———

Signatories

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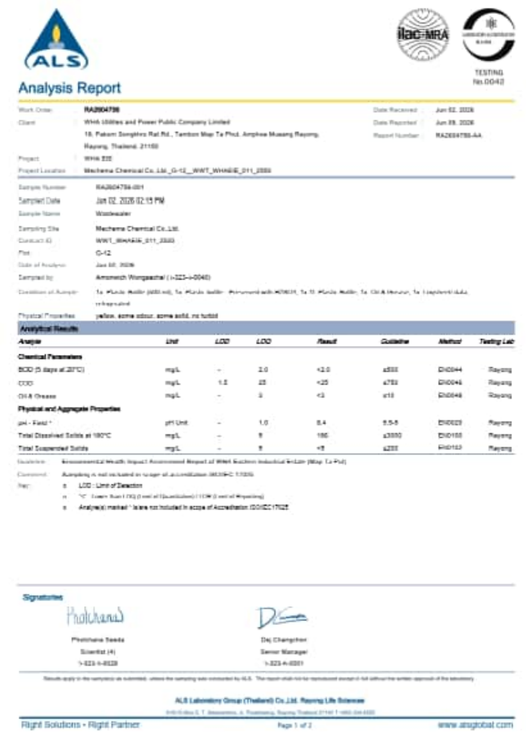

Analysis Report

TESTING No.0042

Analytical Results

Chemical Parameters

Physical and Aggregate Properties

Signatories

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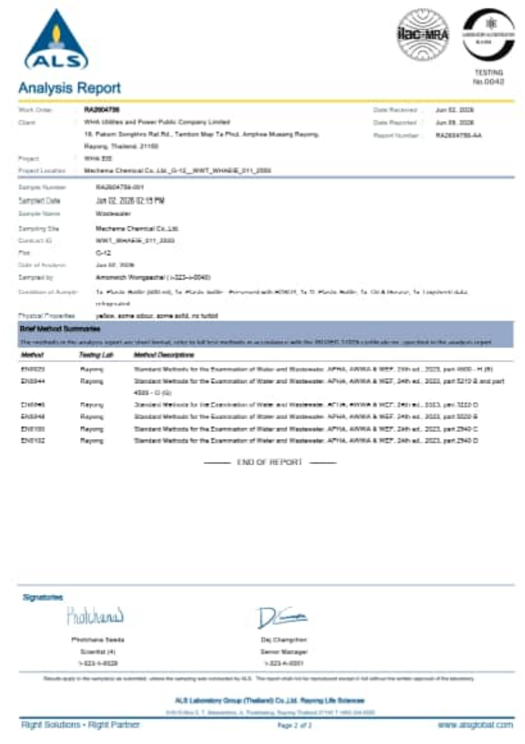

Analysis Report

TESTING No.0042

Brief Method Summaries

——— END OF REPORT ———

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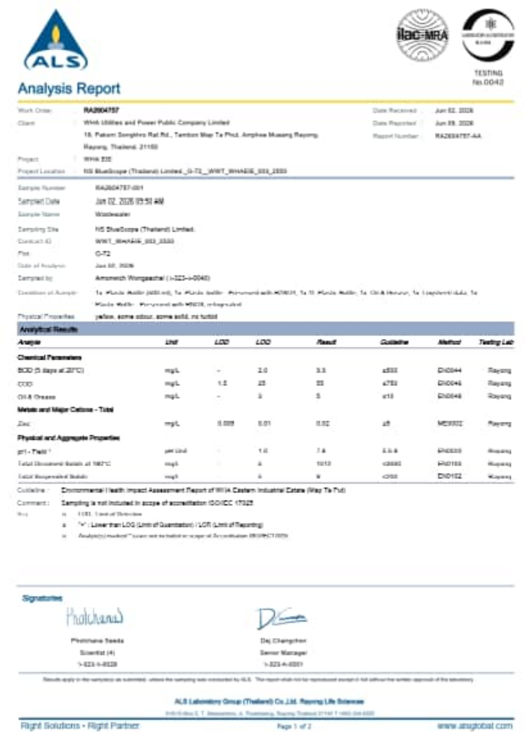

Analysis Report

TESTING No.0042

Analytical Results

Chemical Parameters

Metals and Major Cations - Total

Physical and Aggregate Properties

Signatories

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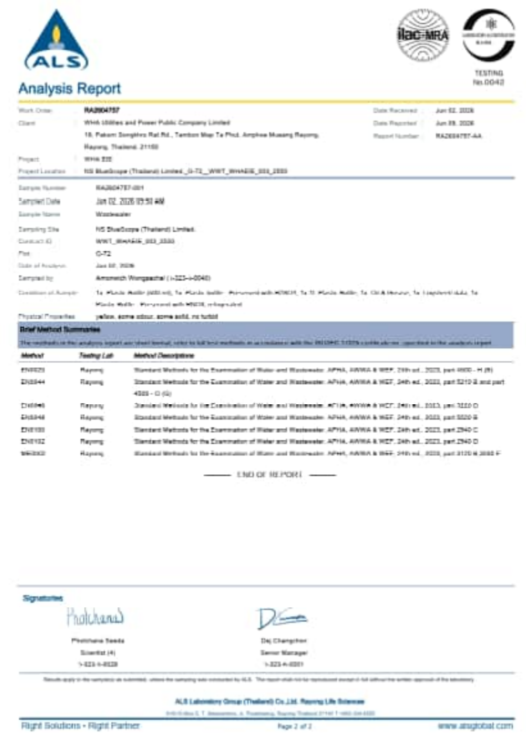

Analysis Report

TESTING No.0042

Brief Method Summaries

——— END OF REPORT ———

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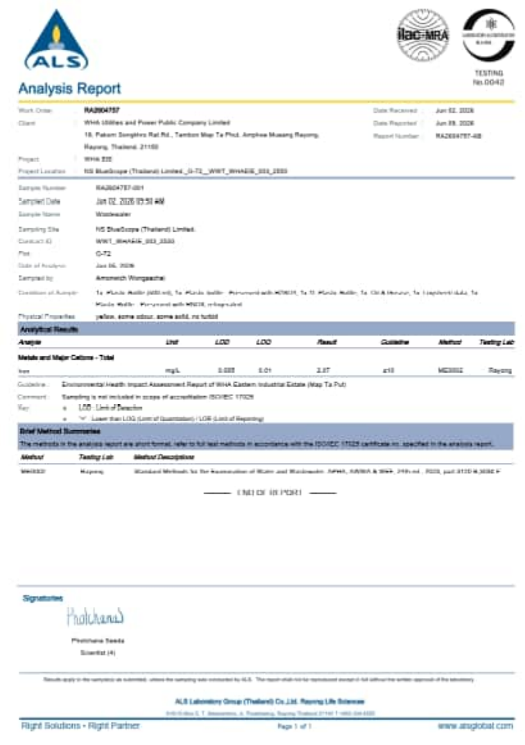

Analysis Report

TESTING No.0042

Analytical Results

Metals and Major Cations - Total

Brief Method Summaries

——— END OF REPORT ———

Signatories

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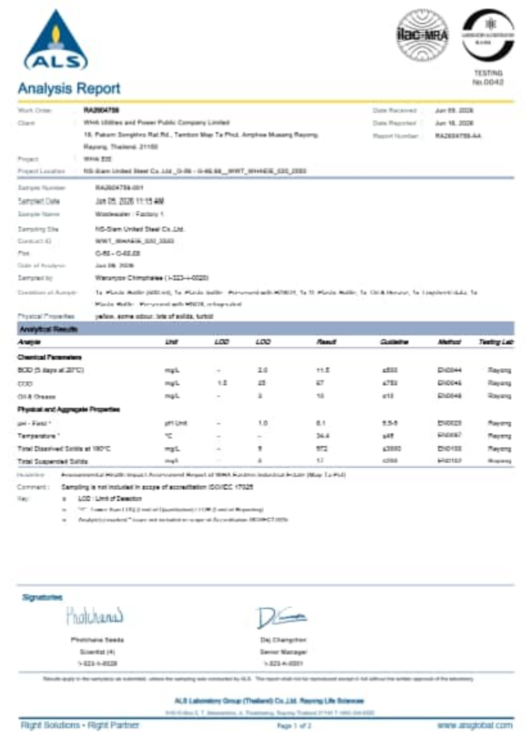

Analysis Report

TESTING No.0042

Analytical Results

Chemical Parameters

Physical and Aggregate Properties

Signatories

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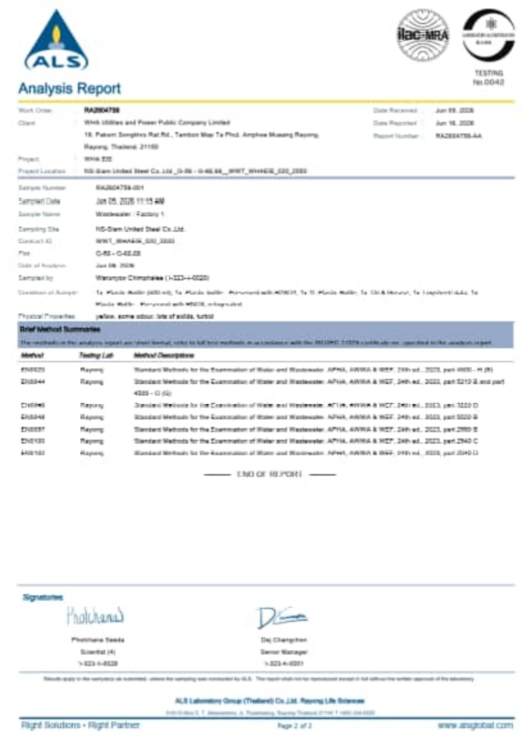

Analysis Report

TESTING No.0042

Brief Method Summaries

——— END OF REPORT ———

Signatories

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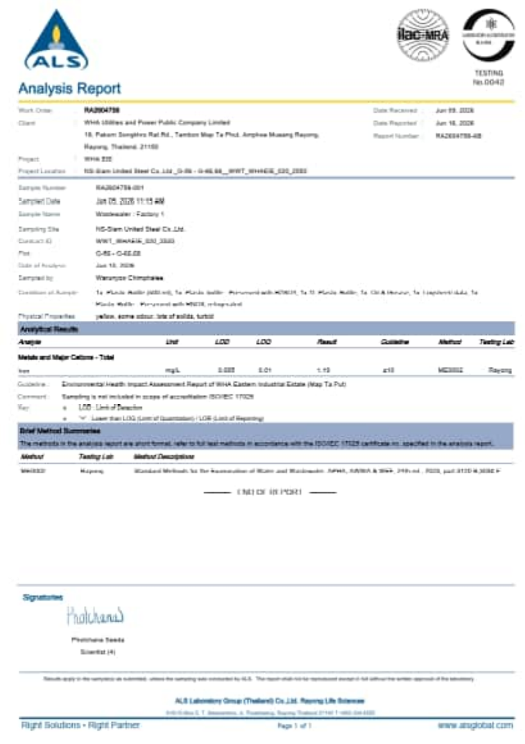

Analysis Report

TESTING No.0042

Analytical Results

Metals and Major Cations - Total

Brief Method Summaries

——— END OF REPORT ———

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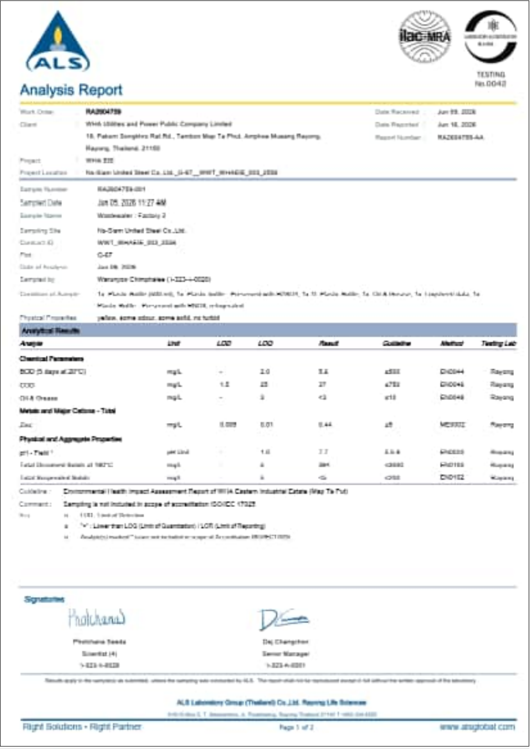

Analysis Report

TESTING No.0042

WHA Utilities and Power Public Company Limited

Wastewater : Factory 2

Analytical Results

Chemical Parameters

Physical and Aggregate Properties

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

Signatories

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Analysis Report

TESTING No.0042

WHA Utilities and Power Public Company Limited

Wastewater : Factory 2

Brief Method Summaries

END OF REPORT

Signatories

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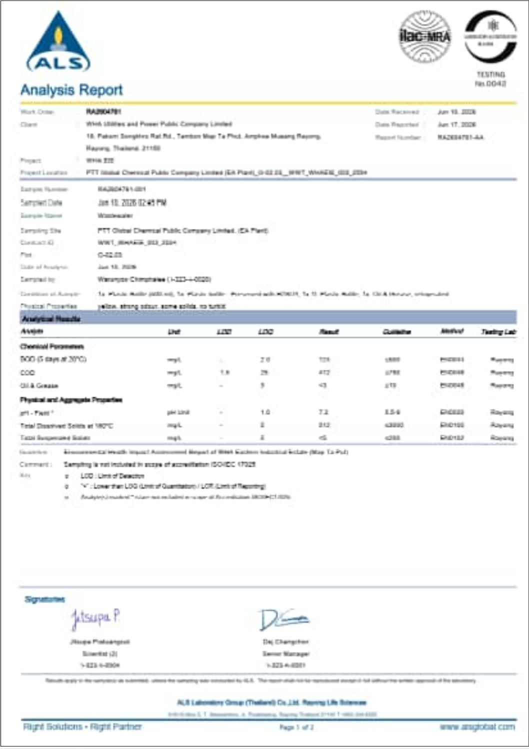

Analysis Report

TESTING No.0042

WHA Utilities and Power Public Company Limited

Wastewater

PTT Global Chemical Public Company Limited. (EA Plant)

Analytical Results

Chemical Parameters

Physical and Aggregate Properties

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

LOD : Limit of Detection

Signatories

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Analysis Report

TESTING No.0042

WHA Utilities and Power Public Company Limited

Wastewater

PTT Global Chemical Public Company Limited. (EA Plant)

Brief Method Summaries

END OF REPORT

Signatories

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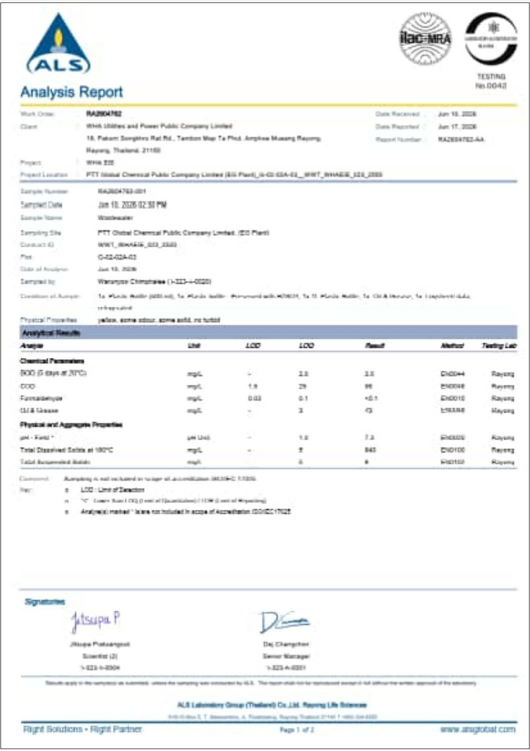

Analysis Report

TESTING No.0042

WHA Utilities and Power Public Company Limited

Wastewater

Analytical Results

Chemical Parameters

Physical and Aggregate Properties

LOD : Limit of Detection

Signatories

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Analysis Report

TESTING No.0042

WHA Utilities and Power Public Company Limited

Wastewater

Brief Method Summaries

END OF REPORT

Signatories

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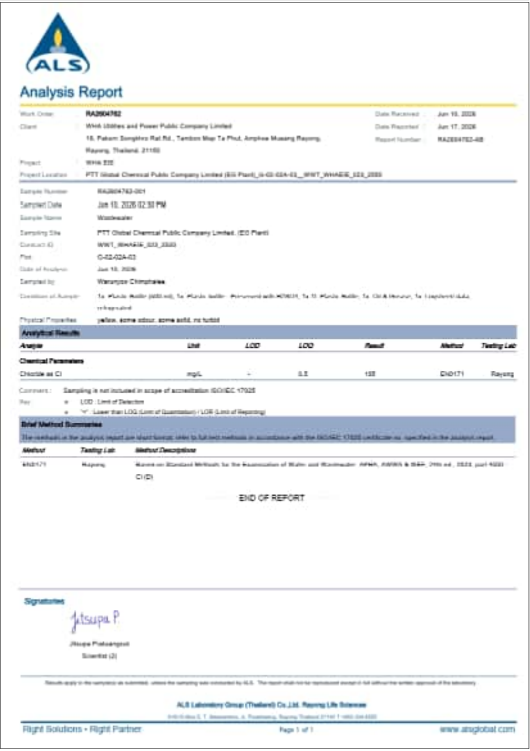

Analysis Report

WHA Utilities and Power Public Company Limited

Wastewater

Analytical Results

Chemical Parameters

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

LOD : Limit of Detection

Brief Method Summaries

END OF REPORT

Signatories

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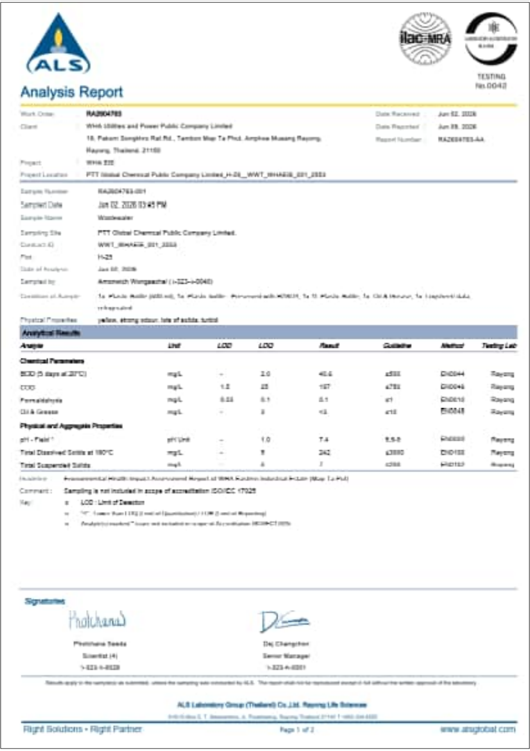

Analysis Report

TESTING No.0042

WHA Utilities and Power Public Company Limited

Wastewater

PTT Global Chemical Public Company Limited.

Analytical Results

Chemical Parameters

Physical and Aggregate Properties

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

LOD : Limit of Detection

Signatories

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Analysis Report

TESTING No.0042

WHA Utilities and Power Public Company Limited

Wastewater

PTT Global Chemical Public Company Limited.

Brief Method Summaries

END OF REPORT

Signatories

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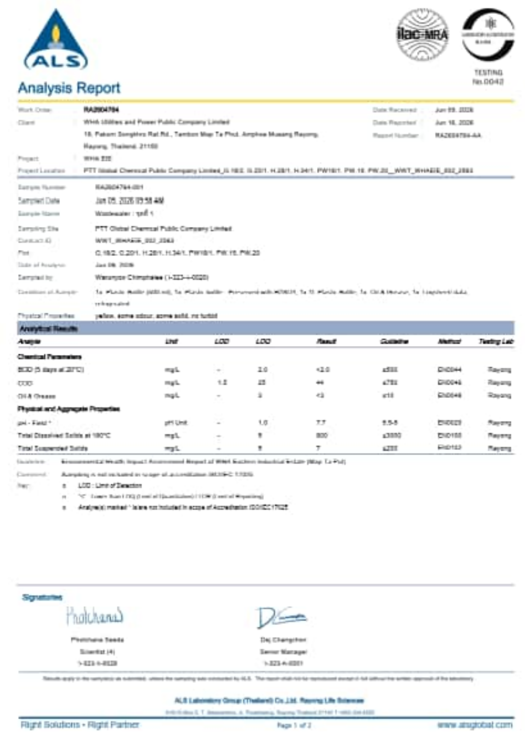


Analysis Report

Work Order: RA2604784

Sampled Date: Jan 05, 2026 09:58 AM

Sample Name: Wastewater : จุดที่ 1

Sampling Site: PTT Global Chemical Public Company Limited

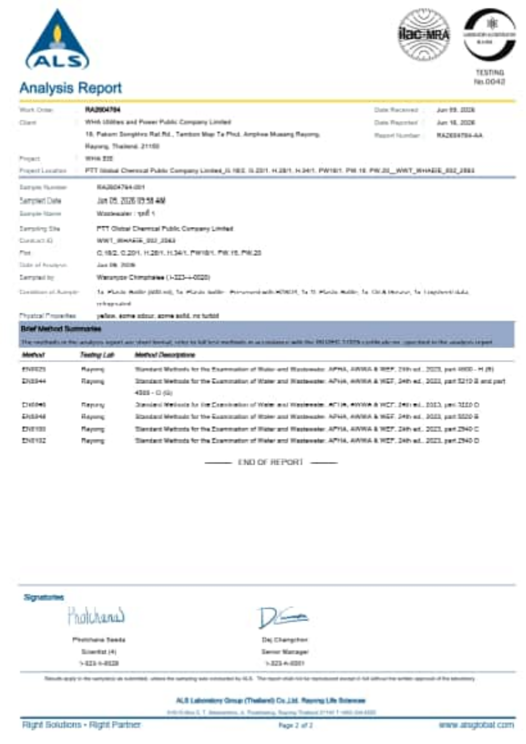
Plot: O.18/2, O.20/1, H.28/1, H.34/1, PW18/1, PW.15, PW.20

Physical Properties: yellow, some odour, some solid, no 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	Rayong
COD	mg/L	1.5	25	44	≤750	EN0046	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	EN0048	Rayong
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.7	5.5-9	EN0023	Rayong
Total Dissolved Solids at 180°C	mg/L	-	5	800	≤3000	EN0150	Rayong
Total Suspended Solids	mg/L	-	5	7	≤200	EN0152	Rayong

Key:
- LOD : Limit of Detection
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC17025



Analysis Report

Work Order: RA2604784

Sampled Date: Jan 05, 2026 09:58 AM

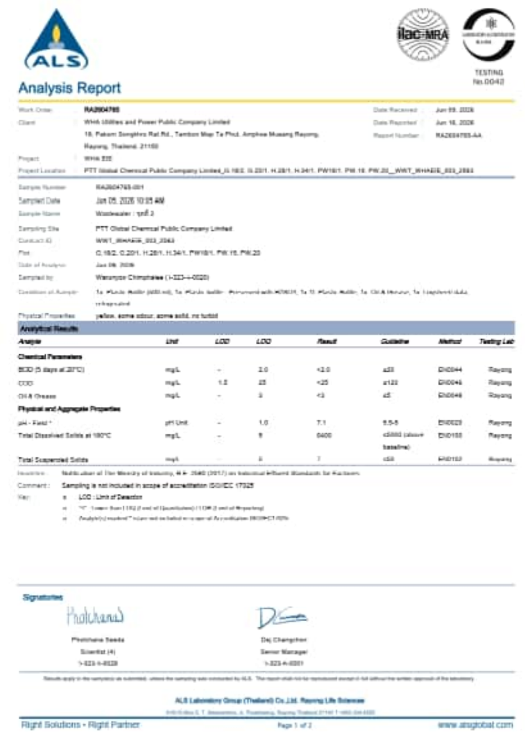
Sample Name: Wastewater : จุดที่ 1

Physical Properties: yellow, some odour, some solid, no turbid

Brief Method Summaries

Method	Testing Lab	Method Descriptions
EN0023	Rayong	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Rayong	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Rayong	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Rayong	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0150	Rayong	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 C
EN0152	Rayong	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

END OF REPORT



Analysis Report

Work Order: RA2604785

Sampled Date: Jan 05, 2026 10:05 AM

Sample Name: Wastewater : จุดที่ 2

Sampling Site: PTT Global Chemical Public Company Limited

Plot: O.18/2, O.20/1, H.28/1, H.34/1, PW18/1, PW.15, PW.20

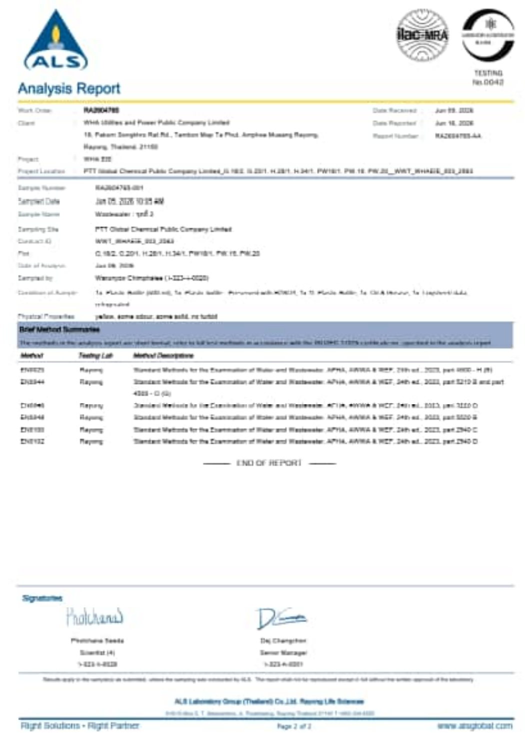
Physical Properties: yellow, some odour, some solid, no turbid

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	≤20	EN0044	Rayong
COD	mg/L	1.5	25	<25	≤120	EN0046	Rayong
Oil & Grease	mg/L	-	3	<3	≤5	EN0048	Rayong
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.1	5.5-9	EN0023	Rayong
Total Dissolved Solids at 180°C	mg/L	-	5	6400	≤5000 (above baseline)	EN0150	Rayong
Total Suspended Solids	mg/L	-	5	7	≤50	EN0152	Rayong

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

Key:
- LOD : Limit of Detection



Analysis Report

Work Order: RA2604785

Sampled Date: Jan 05, 2026 10:05 AM

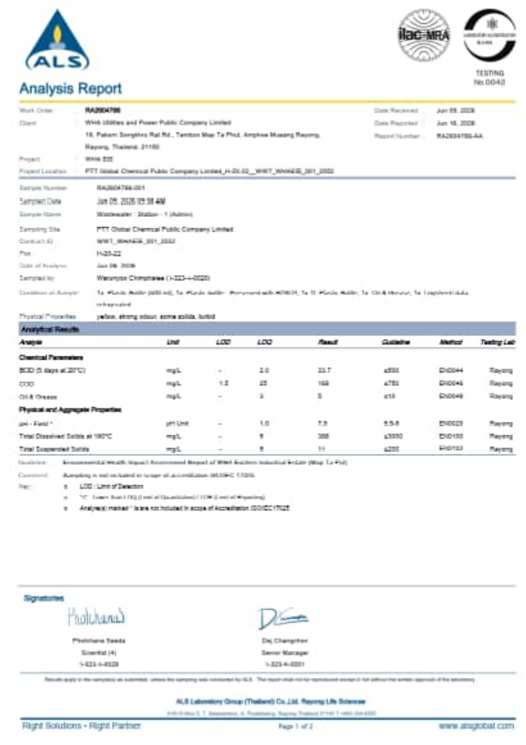
Sample Name: Wastewater : จุดที่ 2

Physical Properties: yellow, some odour, some solid, no turbid

Brief Method Summaries

Method	Testing Lab	Method Descriptions
EN0023	Rayong	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Rayong	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Rayong	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Rayong	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0150	Rayong	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 C
EN0152	Rayong	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

END OF REPORT



Analysis Report

Work Order: RA2604786

Sampled Date: Jan 05, 2026 09:38 AM

Sample Name: Wastewater : Station - 1 (Admin)

Sampling Site: PTT Global Chemical Public Company Limited

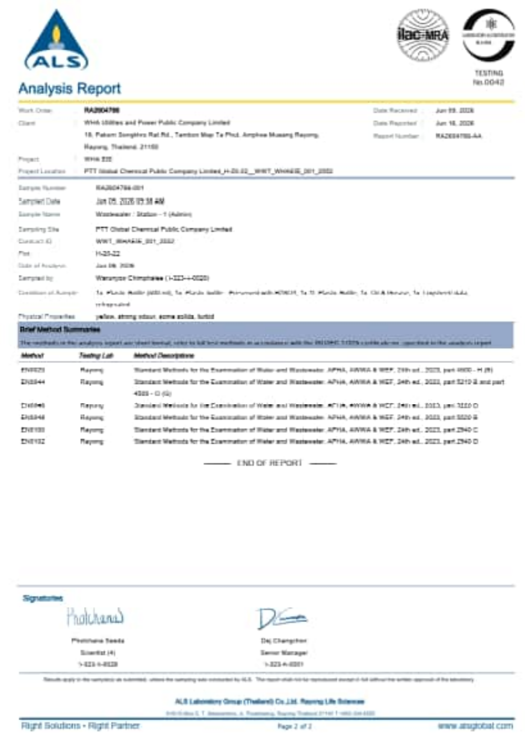
Plot: H-20-22

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	23.7	≤500	EN0044	Rayong
COD	mg/L	1.5	25	168	≤750	EN0046	Rayong
Oil & Grease	mg/L	-	3	5	≤10	EN0048	Rayong
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.9	5.5-9	EN0023	Rayong
Total Dissolved Solids at 180°C	mg/L	-	5	388	≤3000	EN0150	Rayong
Total Suspended Solids	mg/L	-	5	11	≤200	EN0152	Rayong

Key:
- LOD : Limit of Detection
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC17025



Analysis Report

Work Order: RA2604786

Sampled Date: Jan 05, 2026 09:38 AM

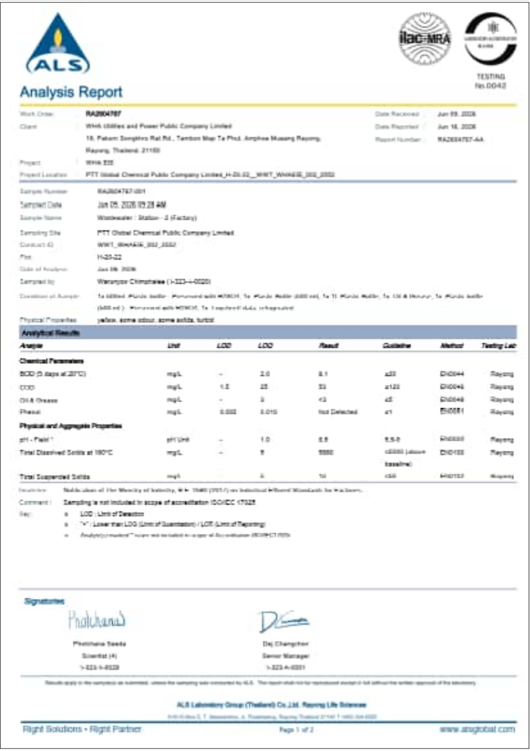
Sample Name: Wastewater : Station - 1 (Admin)

Physical Properties: yellow, strong odour, some solids, turbid

Brief Method Summaries

Method	Testing Lab	Method Descriptions
EN0023	Rayong	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Rayong	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Rayong	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Rayong	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0150	Rayong	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 C
EN0152	Rayong	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

END OF REPORT



Analysis Report

Work Order: RA2604787

Sampled Date: Jan 05, 2026 09:28 AM

Sample Name: Wastewater : Station - 2 (Factory)

Sampling Site: PTT Global Chemical Public Company Limited

Plot: H-20-22

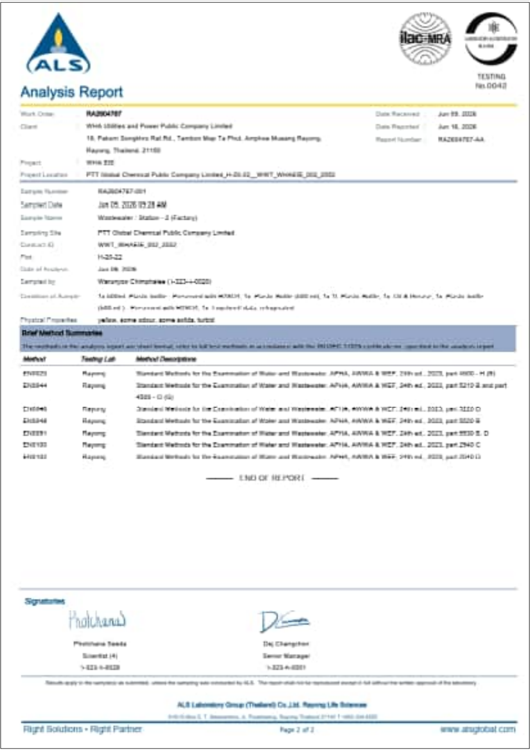
Physical Properties: yellow, some odour, some solids, turbid

Analytical Results

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	8.1	≤20	EN0044	Rayong
COD	mg/L	1.5	25	53	≤120	EN0046	Rayong
Oil & Grease	mg/L	-	3	<3	≤5	EN0048	Rayong
Phenol	mg/L	0.003	0.010	Not Detected	≤1	EN0081	Rayong
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	8.8	5.5-9	EN0023	Rayong
Total Dissolved Solids at 180°C	mg/L	-	5	5880	≤5000 (above baseline)	EN0150	Rayong
Total Suspended Solids	mg/L	-	5	14	≤50	EN0152	Rayong

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)



Analysis Report

Work Order: RA2604787

Sampled Date: Jan 05, 2026 09:28 AM

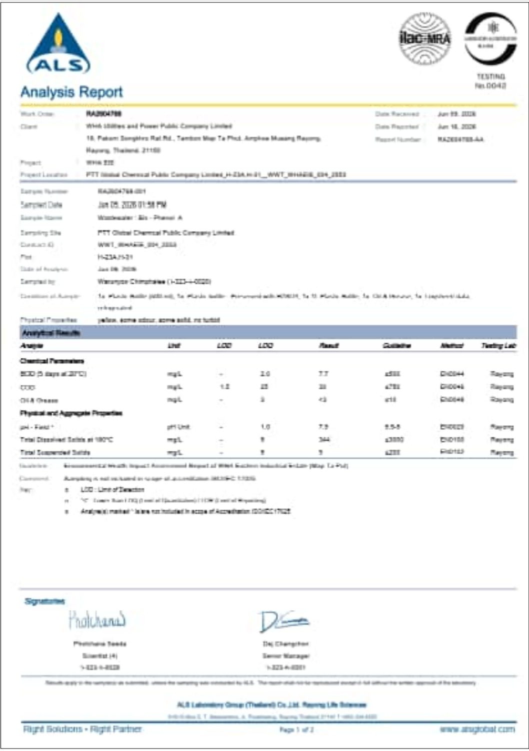
Sample Name: Wastewater : Station - 2 (Factory)

Physical Properties: yellow, some odour, some solids, turbid

Brief Method Summaries

Method	Testing Lab	Method Descriptions
EN0023	Rayong	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Rayong	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Rayong	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Rayong	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0081	Rayong	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5530 B, D
EN0150	Rayong	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 C
EN0152	Rayong	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

END OF REPORT



Analysis Report

Work Order: RA2604788

Sampled Date: Jan 05, 2026 01:58 PM

Sample Name: Wastewater : Bio - Phenol A

Sampling Site: PTT Global Chemical Public Company Limited

Plot: H-23A,H-31

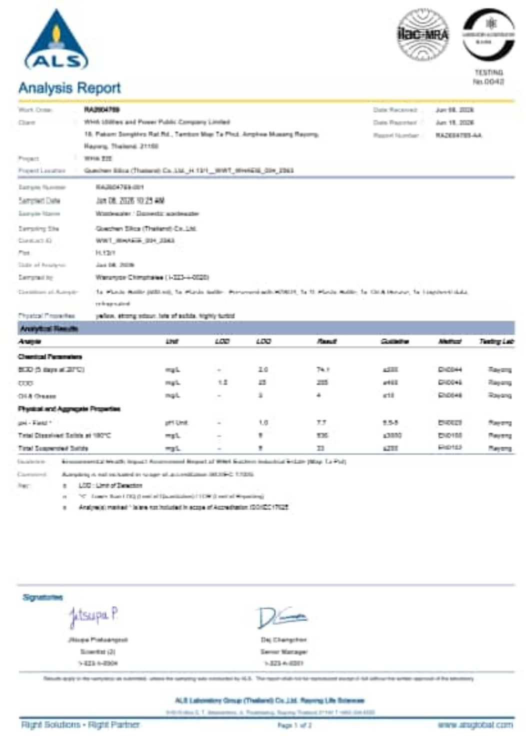
Physical Properties: yellow, some odour, some solid, no turbid

Analytical Results

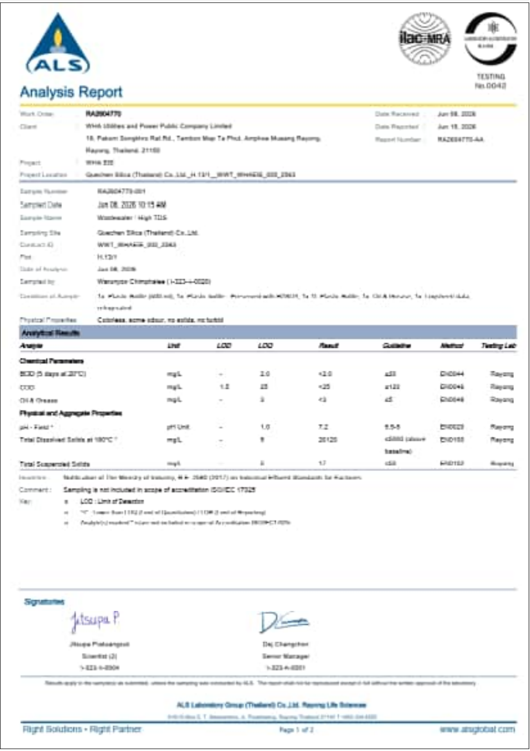
Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	7.7	≤500	EN0044	Rayong
COD	mg/L	1.5	25	33	≤750	EN0046	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	EN0048	Rayong
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.9	5.5-9	EN0023	Rayong
Total Dissolved Solids at 180°C	mg/L	-	5	344	≤3000	EN0150	Rayong
Total Suspended Solids	mg/L	-	5	9	≤200	EN0152	Rayong

Key:
- LOD : Limit of Detection
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC17025

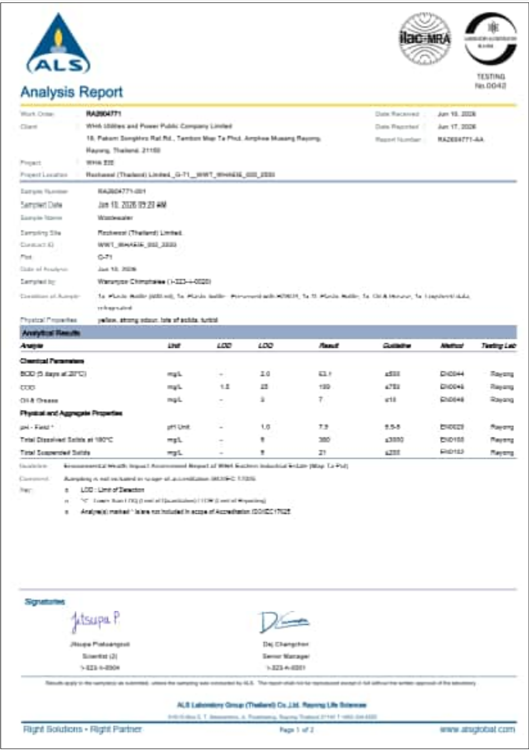
Analysis Report


Analysis Report

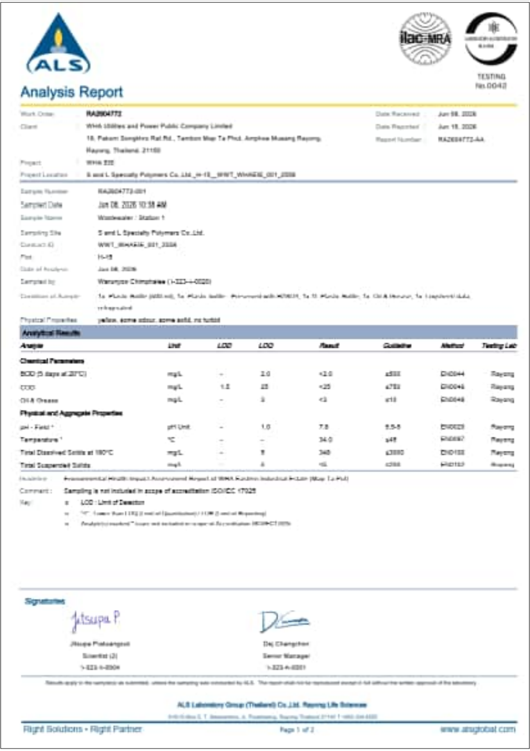
Analysis Report


Analysis Report

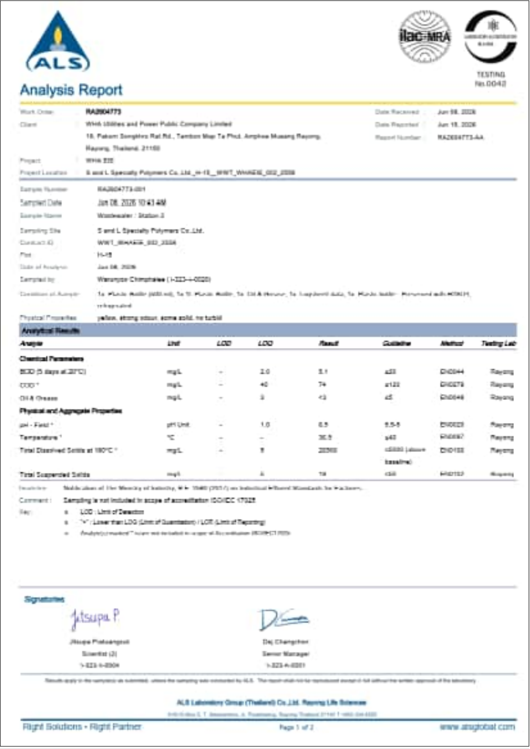
Analysis Report


Analysis Report

Analysis Report


Analysis Report

Analysis Report



Analysis Report

TESTING No.0042

Work Order: RA2604773
Client: WHA Utilities and Power Public Company Limited
18, Pakorn Songkhro Rat Rd., Tambon Map Ta Phut, Amphoe Mueang Rayong, Rayong, Thailand, 21150
Date Received: Jun 08, 2026
Date Reported: Jun 15, 2026
Report Number: RA2604773-AA
Project: WHA ESIE
Project Location: S and L Specialty Polymers Co.,Ltd._H-15__WWT_WHAESIE_002_2006

Sample Number: RA2604773-001
Sampled Date: Jun 08, 2026 10:43 AM
Sample Name: Wastewater : Station 2
Sampling Site: S and L Specialty Polymers Co.,Ltd.
Contact ID: WWT_WHAESIE_002_2006
Plot: H-15
Date of Analysis: Jun 08, 2026
Sampled by: Waranyoo Chimphalee (1-223-4-0020)
Physical Properties: yellow, strong odour, some solid, no turbid

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	≤20	EN0044	Rayong
COD *	mg/L	-	40	74	≤120	EN0079	Rayong
Oil & Grease	mg/L	-	3	<3	≤5	EN0048	Rayong
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	6.5	5.5-9	EN0023	Rayong
Temperature *	°C	-	-	36.5	≤40	EN0097	Rayong
Total Dissolved Solids at 180°C *	mg/L	-	5	20500	≤5000 (above baseline)	EN0100	Rayong
Total Suspended Solids	mg/L	-	5	78	≤50	EN0102	Rayong

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)

Signatories
Jitsupa P.
Scientist (2)
Senior Manager

ALS Laboratory Group (Thailand) Co.,Ltd. Rayong Life Sciences

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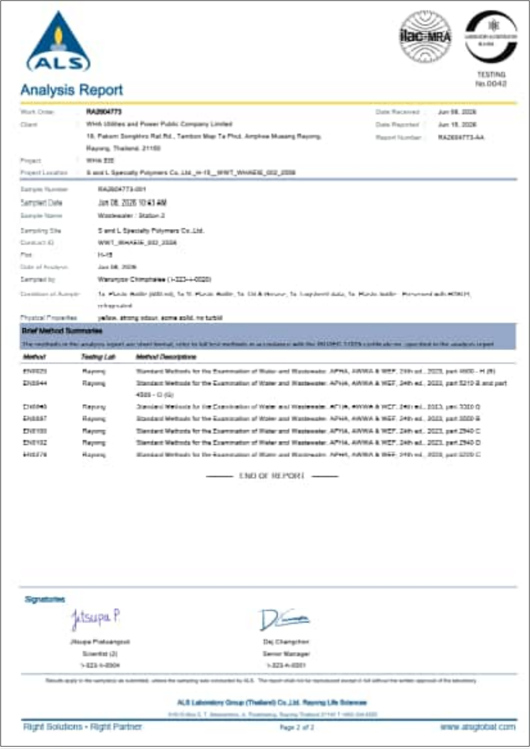

Analysis Report

TESTING No.0042

Work Order: RA2604773
Client: WHA Utilities and Power Public Company Limited
18, Pakorn Songkhro Rat Rd., Tambon Map Ta Phut, Amphoe Mueang Rayong, Rayong, Thailand, 21150
Date Received: Jun 08, 2026
Date Reported: Jun 15, 2026
Report Number: RA2604773-AA
Project: WHA ESIE
Project Location: S and L Specialty Polymers Co.,Ltd._H-15__WWT_WHAESIE_002_2006

Sample Number: RA2604773-001
Sampled Date: Jun 08, 2026 10:43 AM
Sample Name: Wastewater : Station 2
Sampling Site: S and L Specialty Polymers Co.,Ltd.
Contact ID: WWT_WHAESIE_002_2006
Plot: H-15
Date of Analysis: Jun 08, 2026
Sampled by: Waranyoo Chimphalee (1-223-4-0020)
Physical Properties: yellow, strong odour, some solid, no turbid

Brief Method Summaries

Method	Testing Lab	Method Descriptions
EN0023	Rayong	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Rayong	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0048	Rayong	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0097	Rayong	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2550 B
EN0100	Rayong	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 C
EN0102	Rayong	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 D
EN0079	Rayong	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5220 C

—— END OF REPORT ——

Signatories
Jitsupa P.
Scientist (2)
Senior Manager

ALS Laboratory Group (Thailand) Co.,Ltd. Rayong Life Sciences

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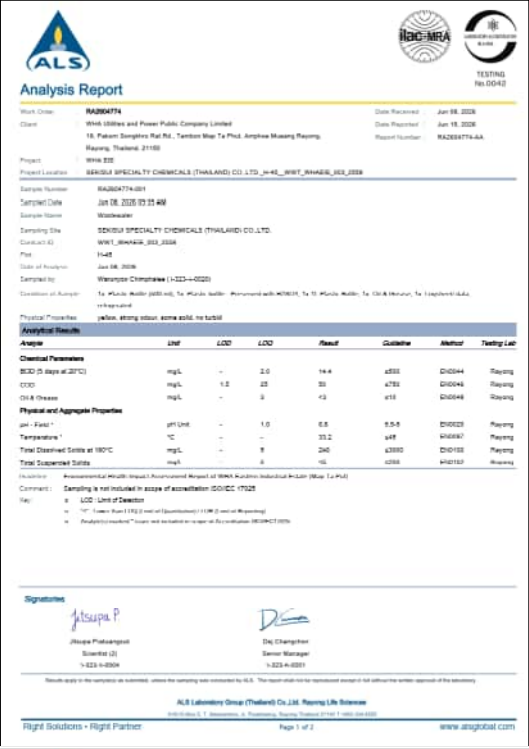

Analysis Report

TESTING No.0042

Work Order: RA2604774
Client: WHA Utilities and Power Public Company Limited
18, Pakorn Songkhro Rat Rd., Tambon Map Ta Phut, Amphoe Mueang Rayong, Rayong, Thailand, 21150
Date Received: Jun 08, 2026
Date Reported: Jun 15, 2026
Report Number: RA2604774-AA
Project: WHA ESIE
Project Location: SEKISUI SPECIALTY CHEMICALS (THAILAND) CO.,LTD._H-45__WWT_WHAESIE_003_2006

Sample Number: RA2604774-001
Sampled Date: Jun 08, 2026 09:35 AM
Sample Name: Wastewater
Sampling Site: SEKISUI SPECIALTY CHEMICALS (THAILAND) CO.,LTD.
Contact ID: WWT_WHAESIE_003_2006
Plot: H-45
Date of Analysis: Jun 08, 2026
Sampled by: Waranyoo Chimphalee (1-223-4-0020)
Physical Properties: yellow, strong odour, some solid, no turbid

Analytical Results

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	14.4	≤500	EN0044	Rayong
COD	mg/L	1.5	25	53	≤750	EN0046	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	EN0048	Rayong
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	6.8	5.5-9	EN0023	Rayong
Temperature *	°C	-	-	33.2	≤45	EN0097	Rayong
Total Dissolved Solids at 180°C	mg/L	-	5	240	≤3000	EN0100	Rayong
Total Suspended Solids	mg/L	-	5	<5	≤200	EN0102	Rayong

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

Signatories
Jitsupa P.
Scientist (2)
Senior Manager

ALS Laboratory Group (Thailand) Co.,Ltd. Rayong Life Sciences

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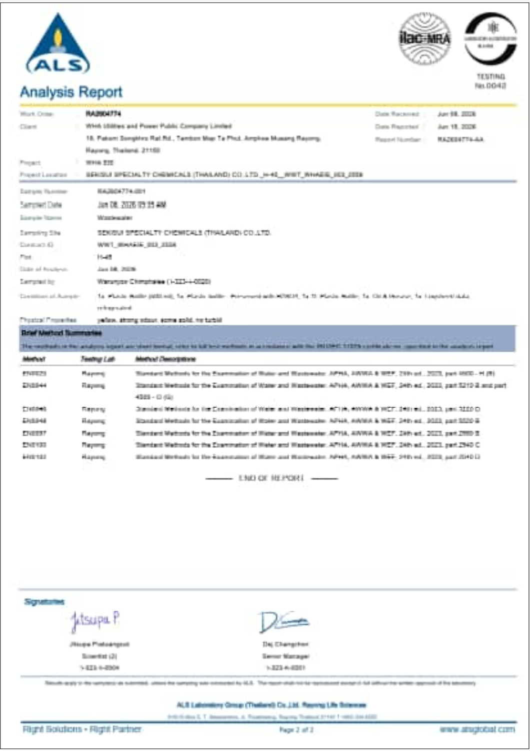

Analysis Report

TESTING No.0042

Work Order: RA2604774
Client: WHA Utilities and Power Public Company Limited
18, Pakorn Songkhro Rat Rd., Tambon Map Ta Phut, Amphoe Mueang Rayong, Rayong, Thailand, 21150
Date Received: Jun 08, 2026
Date Reported: Jun 15, 2026
Report Number: RA2604774-AA
Project: WHA ESIE
Project Location: SEKISUI SPECIALTY CHEMICALS (THAILAND) CO.,LTD._H-45__WWT_WHAESIE_003_2006

Sample Number: RA2604774-001
Sampled Date: Jun 08, 2026 09:35 AM
Sample Name: Wastewater
Sampling Site: SEKISUI SPECIALTY CHEMICALS (THAILAND) CO.,LTD.
Contact ID: WWT_WHAESIE_003_2006
Plot: H-45
Date of Analysis: Jun 08, 2026
Sampled by: Waranyoo Chimphalee (1-223-4-0020)
Physical Properties: yellow, strong odour, some solid, no turbid

Brief Method Summaries

Method	Testing Lab	Method Descriptions
EN0023	Rayong	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Rayong	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Rayong	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Rayong	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0097	Rayong	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2550 B
EN0100	Rayong	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 C
EN0102	Rayong	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

—— END OF REPORT ——

Signatories
Jitsupa P.
Scientist (2)
Senior Manager

ALS Laboratory Group (Thailand) Co.,Ltd. Rayong Life Sciences

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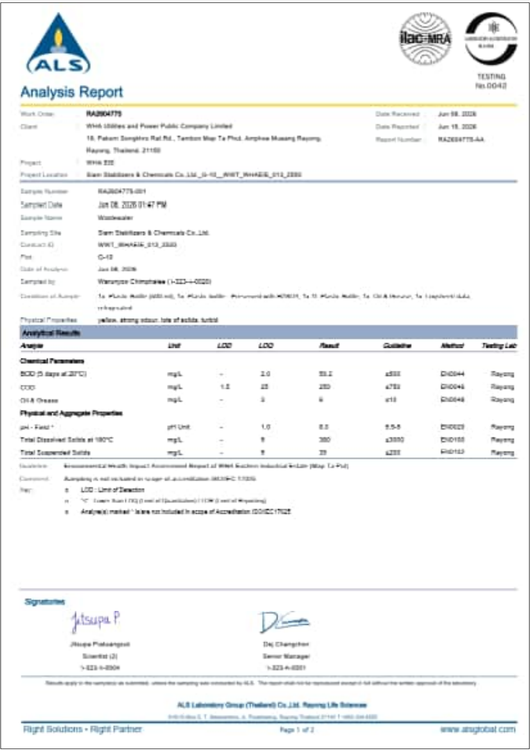

Analysis Report

TESTING No.0042

Work Order: RA2604775
Client: WHA Utilities and Power Public Company Limited
18, Pakorn Songkhro Rat Rd., Tambon Map Ta Phut, Amphoe Mueang Rayong, Rayong, Thailand, 21150
Date Received: Jun 08, 2026
Date Reported: Jun 15, 2026
Report Number: RA2604775-AA
Project: WHA ESIE
Project Location: Siam Stabilizers & Chemicals Co.,Ltd._G-10__WWT_WHAESIE_013_2003

Sample Number: RA2604775-001
Sampled Date: Jun 08, 2026 01:47 PM
Sample Name: Wastewater
Sampling Site: Siam Stabilizers & Chemicals Co.,Ltd.
Contact ID: WWT_WHAESIE_013_2003
Plot: G-10
Date of Analysis: Jun 08, 2026
Sampled by: Waranyoo Chimphalee (1-223-4-0020)
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	53.2	≤500	EN0044	Rayong
COD	mg/L	1.5	25	250	≤750	EN0046	Rayong
Oil & Grease	mg/L	-	3	6	≤10	EN0048	Rayong
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	8.3	5.5-9	EN0023	Rayong
Total Dissolved Solids at 180°C	mg/L	-	5	380	≤3000	EN0100	Rayong
Total Suspended Solids	mg/L	-	5	35	≤200	EN0102	Rayong

Key:
- LOD : Limit of Detection
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC17025

Signatories
Jitsupa P.
Scientist (2)
Senior Manager

ALS Laboratory Group (Thailand) Co.,Ltd. Rayong Life Sciences

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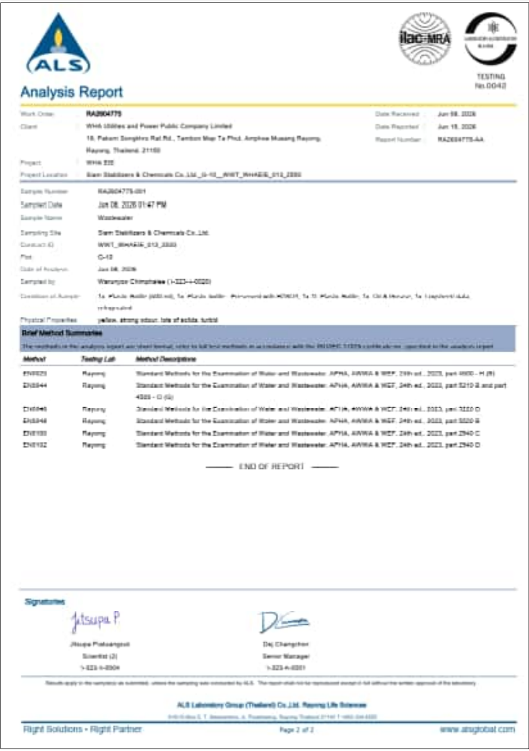

Analysis Report

TESTING No.0042

Work Order: RA2604775
Client: WHA Utilities and Power Public Company Limited
18, Pakorn Songkhro Rat Rd., Tambon Map Ta Phut, Amphoe Mueang Rayong, Rayong, Thailand, 21150
Date Received: Jun 08, 2026
Date Reported: Jun 15, 2026
Report Number: RA2604775-AA
Project: WHA ESIE
Project Location: Siam Stabilizers & Chemicals Co.,Ltd._G-10__WWT_WHAESIE_013_2003

Sample Number: RA2604775-001
Sampled Date: Jun 08, 2026 01:47 PM
Sample Name: Wastewater
Sampling Site: Siam Stabilizers & Chemicals Co.,Ltd.
Contact ID: WWT_WHAESIE_013_2003
Plot: G-10
Date of Analysis: Jun 08, 2026
Sampled by: Waranyoo Chimphalee (1-223-4-0020)
Physical Properties: yellow, strong odour, lots of solids, turbid

Brief Method Summaries

Method	Testing Lab	Method Descriptions
EN0023	Rayong	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Rayong	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Rayong	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Rayong	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0100	Rayong	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 C
EN0102	Rayong	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

—— END OF REPORT ——

Signatories
Jitsupa P.
Scientist (2)
Senior Manager

ALS Laboratory Group (Thailand) Co.,Ltd. Rayong Life Sciences

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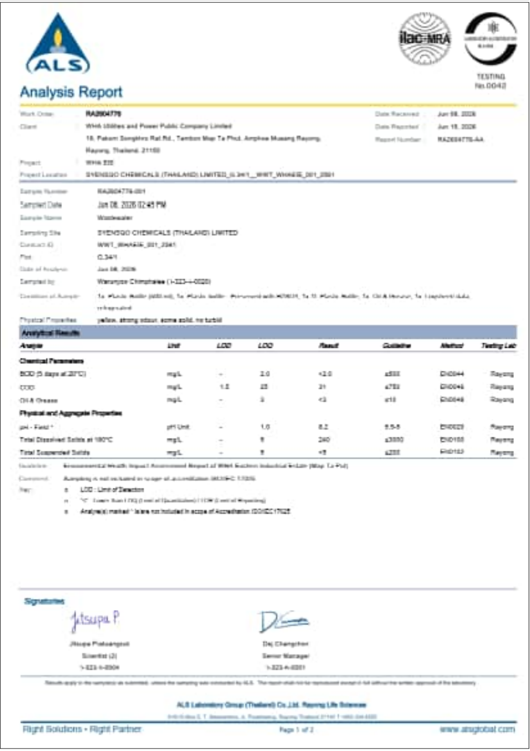

Analysis Report

TESTING No.0042

Work Order: RA2604776
Client: WHA Utilities and Power Public Company Limited
18, Pakorn Songkhro Rat Rd., Tambon Map Ta Phut, Amphoe Mueang Rayong, Rayong, Thailand, 21150
Date Received: Jun 08, 2026
Date Reported: Jun 15, 2026
Report Number: RA2604776-AA
Project: WHA ESIE
Project Location: SYENSQO CHEMICALS (THAILAND) LIMITED_G.3/41__WWT_WHAESIE_001_2001

Sample Number: RA2604776-001
Sampled Date: Jun 08, 2026 02:45 PM
Sample Name: Wastewater
Sampling Site: SYENSQO CHEMICALS (THAILAND) LIMITED
Contact ID: WWT_WHAESIE_001_2001
Plot: G.3/41
Date of Analysis: Jun 08, 2026
Sampled by: Waranyoo Chimphalee (1-223-4-0020)
Physical Properties: yellow, strong odour, some solid, no 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	Rayong
COD	mg/L	1.5	25	31	≤750	EN0046	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	EN0048	Rayong
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	8.2	5.5-9	EN0023	Rayong
Total Dissolved Solids at 180°C	mg/L	-	5	240	≤3000	EN0100	Rayong
Total Suspended Solids	mg/L	-	5	<5	≤200	EN0102	Rayong

Key:
- LOD : Limit of Detection
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC17025

Signatories
Jitsupa P.
Scientist (2)
Senior Manager

ALS Laboratory Group (Thailand) Co.,Ltd. Rayong Life Sciences

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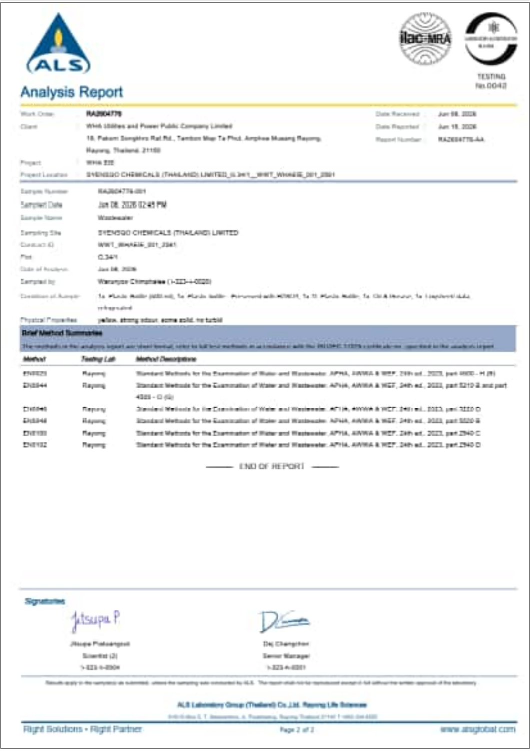

Analysis Report

TESTING No.0042

Work Order: RA2604776
Client: WHA Utilities and Power Public Company Limited
18, Pakorn Songkhro Rat Rd., Tambon Map Ta Phut, Amphoe Mueang Rayong, Rayong, Thailand, 21150
Date Received: Jun 08, 2026
Date Reported: Jun 15, 2026
Report Number: RA2604776-AA
Project: WHA ESIE
Project Location: SYENSQO CHEMICALS (THAILAND) LIMITED_G.3/41__WWT_WHAESIE_001_2001

Sample Number: RA2604776-001
Sampled Date: Jun 08, 2026 02:45 PM
Sample Name: Wastewater
Sampling Site: SYENSQO CHEMICALS (THAILAND) LIMITED
Contact ID: WWT_WHAESIE_001_2001
Plot: G.3/41
Date of Analysis: Jun 08, 2026
Sampled by: Waranyoo Chimphalee (1-223-4-0020)
Physical Properties: yellow, strong odour, some solid, no turbid

Brief Method Summaries

Method	Testing Lab	Method Descriptions
EN0023	Rayong	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Rayong	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Rayong	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Rayong	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0100	Rayong	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 C
EN0102	Rayong	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

—— END OF REPORT ——

Signatories
Jitsupa P.
Scientist (2)
Senior Manager

ALS Laboratory Group (Thailand) Co.,Ltd. Rayong Life Sciences

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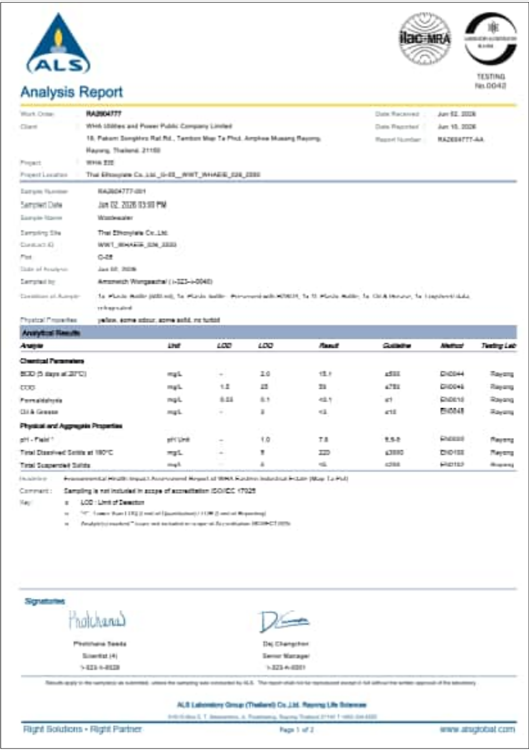


Analysis Report

TESTING No.0042

Work Order: RA2604777
Client: WHA Utilities and Power Public Company Limited
18, Pakorn Songkhro Rat Rd., Tambon Map Ta Phut, Amphoe Mueang Rayong, Rayong, Thailand, 21150
Date Received: Jun 02, 2026
Date Reported: Jun 10, 2026
Report Number: RA2604777-AA
Project: WHA ESIE
Project Location: Thai Ethoxylate Co.,Ltd._G-05__WWT_WHAESIE_026_2000

Sample Number: RA2604777-001
Sampled Date: Jun 02, 2026 03:00 PM
Sample Name: Wastewater
Sampling Site: Thai Ethoxylate Co.,Ltd.
Contact ID: WWT_WHAESIE_026_2000
Plot: G-05
Date of Analysis: Jun 02, 2026
Sampled by: Amornrich Wongsachai (1-223-4-0040)
Physical Properties: yellow, some odour, some solid, no turbid

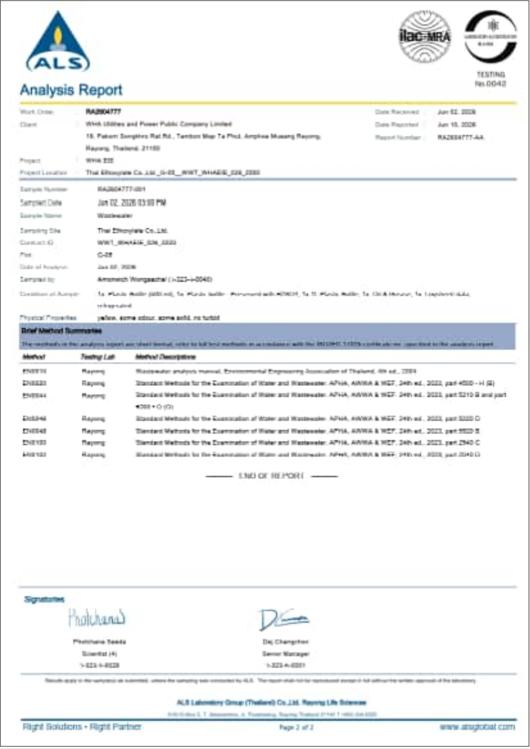
Analytical Results

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	Rayong
COD	mg/L	1.5	25	33	≤750	EN0046	Rayong
Formaldehyde	mg/L	0.03	0.1	<0.1	≤1	EN0010	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	EN0048	Rayong
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.8	5.5-9	EN0023	Rayong
Total Dissolved Solids at 180°C	mg/L	-	5	220	≤3000	EN0100	Rayong
Total Suspended Solids	mg/L	-	5	<5	≤200	EN0102	Rayong

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

Signatories
Pholchana
Scientist (4)
Senior Manager

ALS Laboratory Group (Thailand) Co.,Ltd. Rayong Life Sciences



Analysis Report

TESTING No.0042

Work Order: RA2604777
Client: WHA Utilities and Power Public Company Limited
[illegible]
Project: WHA EIE
Date Received: Jun 02, 2026
Date Reported: Jun 10, 2026
Report Number: RA2604777-AA

Sample Number: RA2604777-001
Sampled Date: Jun 02, 2026 03:00 PM
Sample Name: Wastewater
Sampling Site: Thai Ethoxylate Co.,Ltd.
Plot: G-05
Sampled by: Amornrich Wongsachai
Physical Properties: yellow, some odour, some solid, no turbid

Brief Method Summaries

Method	Testing Lab	Method Descriptions
ENE010	Rayong	Wastewater analysis manual, Environmental Engineering Association of Thailand, 4th ed., 2004
EN0023	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0100	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C
EN0102	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

——— END OF REPORT ———

Signatories
Photchana
Photchana Seeda, Scientist (4)
Dej Changchon, Senior Manager

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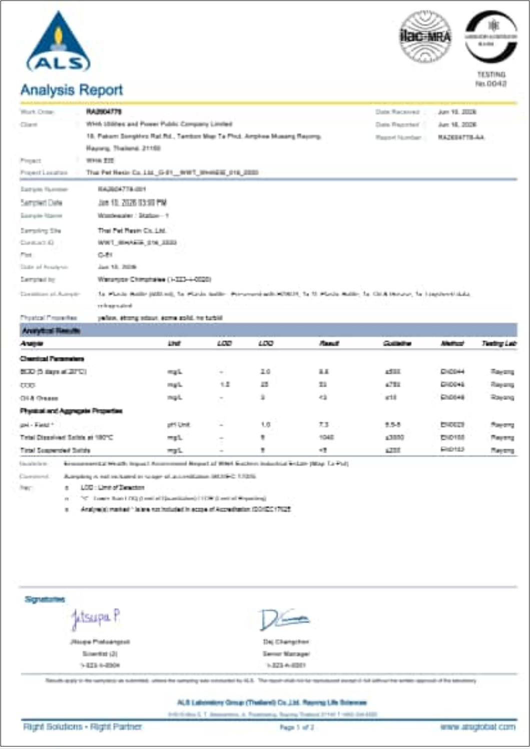

Analysis Report

TESTING No.0042

Work Order: RA2604778
Client: WHA Utilities and Power Public Company Limited
Project: WHA EIE
Project Location: Thai Pet Resin Co.,Ltd._G-01__WWT_WHAEIE_016_2000
Date Received: Jun 10, 2026
Date Reported: Jun 16, 2026
Report Number: RA2604778-AA

Sample Number: RA2604778-001
Sampled Date: Jun 10, 2026 03:00 PM
Sample Name: Wastewater : Station - 1
Sampling Site: Thai Pet Resin Co.,Ltd.
Plot: G-01
Sampled by: Waranyoo Chimphalee
Physical Properties: yellow, strong odour, some solid, no 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	Rayong
COD	mg/L	1.5	25	53	≤750	EN0046	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	EN0048	Rayong
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.3	5.5-9	EN0023	Rayong
Total Dissolved Solids at 180°C	mg/L	-	5	1040	≤3000	EN0100	Rayong
Total Suspended Solids	mg/L	-	5	<5	≤200	EN0102	Rayong

Key: LOD : Limit of Detection
Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC17025

Signatories
Jitsupa P.
Dej Changchon, Senior Manager

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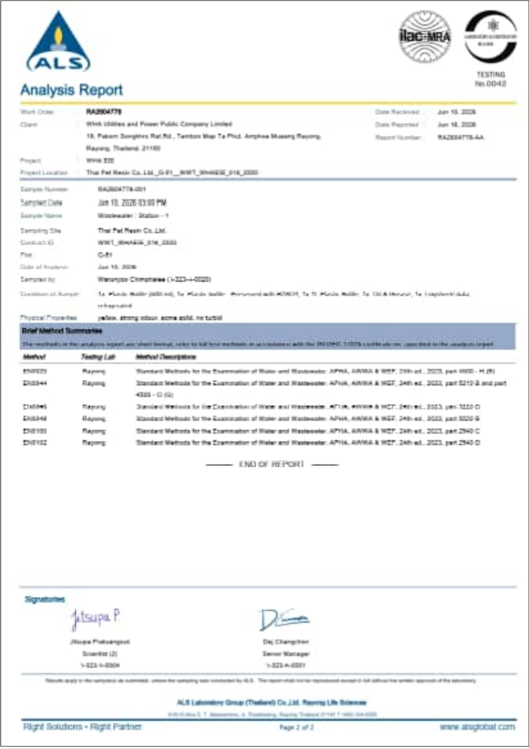

Analysis Report

TESTING No.0042

Work Order: RA2604778
Report Number: RA2604778-AA
Sample Number: RA2604778-001
Sampled Date: Jun 10, 2026 03:00 PM
Sample Name: Wastewater : Station - 1
Sampling Site: Thai Pet Resin Co.,Ltd.
Physical Properties: yellow, strong odour, some solid, no turbid

Brief Method Summaries

Method	Testing Lab	Method Descriptions
EN0023	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0100	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C
EN0102	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

——— END OF REPORT ———

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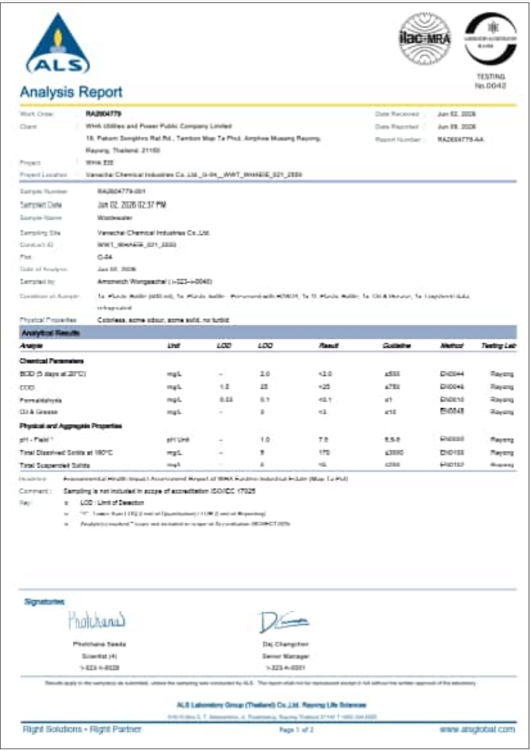

Analysis Report

Work Order: RA2604779
Project Location: Vanachai Chemical Industries Co.,Ltd._G-04__WWT_WHAEIE_021_2000
Date Received: Jun 02, 2026
Report Number: RA2604779-AA

Sample Number: RA2604779-001
Sampled Date: Jun 02, 2026 02:37 PM
Sample Name: Wastewater
Sampling Site: Vanachai Chemical Industries Co.,Ltd.
Plot: G-04
Physical Properties: Colorless, some odour, some solid, no 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	Rayong
COD	mg/L	1.5	25	<25	≤750	EN0046	Rayong
Formaldehyde	mg/L	0.03	0.1	<0.1	≤1	ENE010	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	EN0048	Rayong
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.5	5.5-9	EN0023	Rayong
Total Dissolved Solids at 180°C	mg/L	-	5	170	≤3000	EN0100	Rayong
Total Suspended Solids	mg/L	-	5	<5	≤200	EN0102	Rayong

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

Signatories
Photchana Seeda, Scientist (4)
Dej Changchon, Senior Manager

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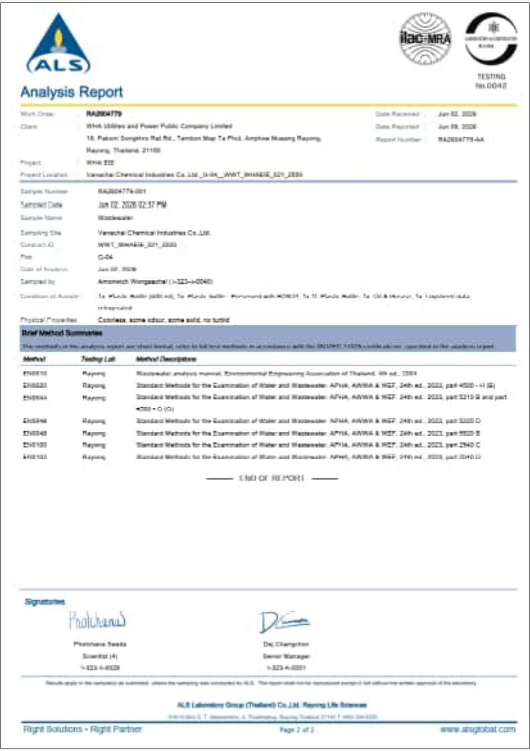

Analysis Report

Work Order: RA2604779
Sampled Date: Jun 02, 2026 02:37 PM
Sampling Site: Vanachai Chemical Industries Co.,Ltd.
Physical Properties: Colorless, some odour, some solid, no turbid

Brief Method Summaries

Method	Testing Lab	Method Descriptions
ENE010	Rayong	Wastewater analysis manual, Environmental Engineering Association of Thailand, 4th ed., 2004
EN0023	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0100	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C
EN0102	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

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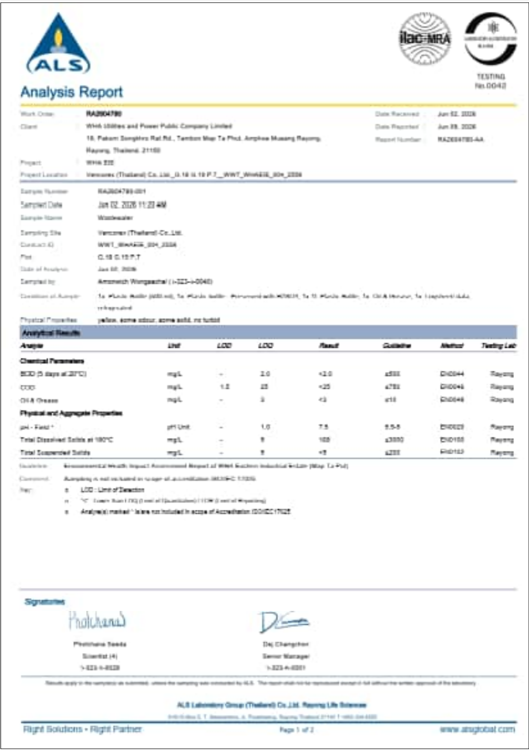

Analysis Report

Work Order: RA2604780
Project Location: Vencorex (Thailand) Co.,Ltd._G.18 & 19 P.T.__WWT_WHAEIE_004_2006
Date Received: Jun 02, 2026
Report Number: RA2604780-AA

Sample Number: RA2604780-001
Sampled Date: Jun 02, 2026 11:20 AM
Sample Name: Wastewater
Sampling Site: Vencorex (Thailand) Co.,Ltd.
Plot: G.18 G.19 P.T
Physical Properties: yellow, some odour, some solid, no 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	Rayong
COD	mg/L	1.5	25	<25	≤750	EN0046	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	EN0048	Rayong
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.5	5.5-9	EN0023	Rayong
Total Dissolved Solids at 180°C	mg/L	-	5	168	≤3000	EN0100	Rayong
Total Suspended Solids	mg/L	-	5	<5	≤200	EN0102	Rayong

Key: LOD : Limit of Detection
Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC17025

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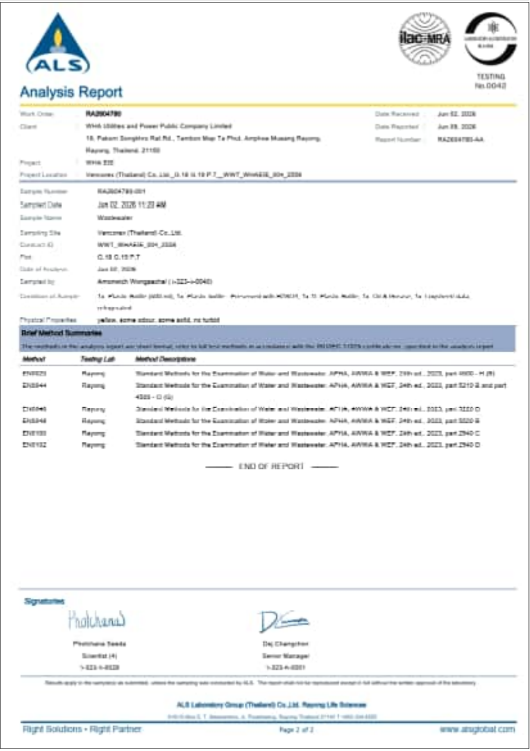

Analysis Report

Work Order: RA2604780
Sampled Date: Jun 02, 2026 11:20 AM
Sampling Site: Vencorex (Thailand) Co.,Ltd.
Plot: G.18 G.19 P.T
Physical Properties: yellow, some odour, some solid, no turbid

Brief Method Summaries

Method	Testing Lab	Method Descriptions
EN0023	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0100	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C
EN0102	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

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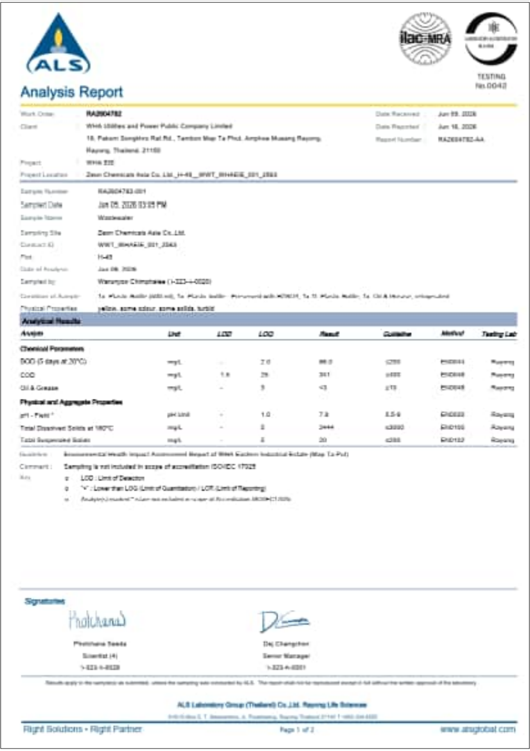

Analysis Report

Work Order: RA2604782
Project Location: Zeon Chemicals Asia Co.,Ltd._H-45__WWT_WHAEIE_001_2563
Date Reported: Jun 16, 2026
Report Number: RA2604782-AA

Sample Number: RA2604782-001
Sampled Date: Jun 05, 2026 03:05 PM
Sample Name: Wastewater
Sampling Site: Zeon Chemicals Asia Co.,Ltd.
Plot: H-45
Sampled by: Waranyoo Chimphalee
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	86.0	≤250	EN0044	Rayong
COD	mg/L	1.5	25	341	≤400	EN0046	Rayong
Oil & Grease	mg/L	-	3	<3	≤15	EN0048	Rayong
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.8	5.5-9	EN0023	Rayong
Total Dissolved Solids at 180°C	mg/L	-	5	2444	≤3000	EN0100	Rayong
Total Suspended Solids	mg/L	-	5	20	≤200	EN0102	Rayong

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)

Signatories
Photchana Seeda, Scientist (4)
Dej Changchon, Senior Manager

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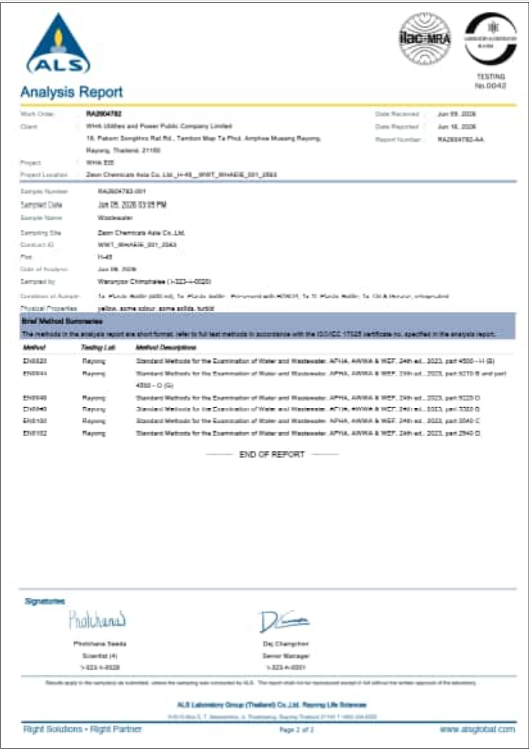

Analysis Report

Work Order: RA2604782
Sampled Date: Jun 05, 2026 03:05 PM
Sampling Site: Zeon Chemicals Asia Co.,Ltd.
Plot: H-45
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
EN0023	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0044	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0046	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN0048	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0100	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C
EN0102	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

——— END OF REPORT ———

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ภาคผนวก ค-7

ระดับเสียงโดยทั่วไป

Analysis / Test Report

TESTING
No.0042

Client : WHA Eastern Industrial Estate Co., Ltd.
18, Pakomsongkrohraj Road, Tambol Huaypong, Amphur Muang, Rayong Thailand 21150
P/O :
Project Name : Monitoring
Project Location : WHA EIE

Lot ID: 2613379
Date Received : Mar 09, 2026
Date Reported : Mar 12, 2026
Report Number : 3525944-1

Sample Number	2613379-2
Parameter	Noise (Leq 24 hrs)
Location	ริมรั้วนิคมฯ ทางด้านทิศเหนือ (บริเวณที่อยู่ใกล้เคียงพื้นที่ชุมชนมากที่สุด)(N1) (GPS 47P 729363, 1405578)
Measurement Date	Mar 02 - Mar 03, 2026
Measurement by	Nontachai Uppathamp
Sound Level meter	Serial No. 1173609

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
11:00 AM - 12:00 PM	52.1	74.1	47.7
12:00 PM - 01:00 PM	53.0	77.0	48.5
01:00 PM - 02:00 PM	54.7	75.5	48.9
02:00 PM - 03:00 PM	52.7	76.0	48.5
03:00 PM - 04:00 PM	52.0	71.7	48.6
04:00 PM - 05:00 PM	53.7	74.0	49.6
05:00 PM - 06:00 PM	53.6	74.4	49.7
06:00 PM - 07:00 PM	59.2	72.4	50.9
07:00 PM - 08:00 PM	52.9	68.9	50.7
08:00 PM - 09:00 PM	52.9	71.0	50.5
09:00 PM - 10:00 PM	56.2	67.2	50.4
10:00 PM - 11:00 PM	51.7	71.0	50.5
11:00 PM - 12:00 AM	53.2	66.0	50.1
12:00 AM - 01:00 AM	50.5	61.7	49.7
01:00 AM - 02:00 AM	57.9	69.0	49.9
02:00 AM - 03:00 AM	50.8	67.2	49.4
03:00 AM - 04:00 AM	51.0	76.8	49.2
04:00 AM - 05:00 AM	51.3	64.0	48.4
05:00 AM - 06:00 AM	62.4	74.3	48.9
06:00 AM - 07:00 AM	54.4	78.3	49.7
07:00 AM - 08:00 AM	53.2	77.5	47.5
08:00 AM - 09:00 AM	51.6	74.7	46.7
09:00 AM - 10:00 AM	51.1	74.9	45.0
10:00 AM - 11:00 AM	50.3	69.7	45.5
Leq Average 24 hrs. (dB(A))	54.8		
Lmax (dB(A))		78.3	
L90 (dB(A))			49.2
Ldn (dB(A))	62.1		
Standard (dB(A))	70	115	

Reference Method : ISO 1996-1 : 2016
Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป
2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดค่าระดับเสียงการรบกวน และระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548
Remark : The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management Chontichak
Chonticha Subongkoch
Scientist (3)

Approved by Supt S
Supot Salamteh
Section Head

Analysis / Test Report

TESTING
No.0042

Client : WHA Eastern Industrial Estate Co., Ltd.
18, Pakornsongkrohraj Road, Tambol Huaypong, Amphur Muang, Rayong Thailand 21150
P/O :
Project Name : Monitoring
Project Location : WHA EIE

Lot ID: 2613379
Date Received : Mar 09, 2026
Date Reported : Mar 12, 2026
Report Number: 3525943-1

Sample Number	2613379-1
Parameter	Noise (Leq 24 hrs)
Location	ริมรั้วนิคมฯ ทางด้านทิศเหนือ (บริเวณที่อยู่ใกล้เคียงพื้นที่ชุมชนมากที่สุด)(N1) (GPS 47P 729363, 1405578)
Measurement Date	Mar 01 - Mar 02, 2026
Measurement by	Nontachai Uppathamp
Sound Level meter	Serial No. 1173609

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
11:00 AM - 12:00 PM	50.7	72.1	47.8
12:00 PM - 01:00 PM	52.5	75.7	47.7
01:00 PM - 02:00 PM	51.0	69.8	48.4
02:00 PM - 03:00 PM	53.4	73.8	48.3
03:00 PM - 04:00 PM	54.8	75.4	48.2
04:00 PM - 05:00 PM	53.2	71.2	49.0
05:00 PM - 06:00 PM	52.5	72.1	49.4
06:00 PM - 07:00 PM	61.4	72.9	50.8
07:00 PM - 08:00 PM	53.0	70.4	50.8
08:00 PM - 09:00 PM	55.2	69.3	50.7
09:00 PM - 10:00 PM	57.4	86.0	51.1
10:00 PM - 11:00 PM	51.3	66.7	50.1
11:00 PM - 12:00 AM	55.1	70.2	50.1
12:00 AM - 01:00 AM	53.7	73.8	49.9
01:00 AM - 02:00 AM	50.9	62.7	50.0
02:00 AM - 03:00 AM	51.6	73.1	49.9
03:00 AM - 04:00 AM	52.1	77.4	49.4
04:00 AM - 05:00 AM	50.9	71.4	48.0
05:00 AM - 06:00 AM	60.6	72.1	48.2
06:00 AM - 07:00 AM	54.4	74.0	48.7
07:00 AM - 08:00 AM	54.8	74.6	47.9
08:00 AM - 09:00 AM	53.3	76.1	47.2
09:00 AM - 10:00 AM	55.9	83.7	46.7
10:00 AM - 11:00 AM	50.6	68.4	47.7
Leq Average 24 hrs. (dB(A))	54.9		
Lmax (dB(A))		86.0	
L90 (dB(A))			48.7
Ldn (dB(A))	61.2		
Standard (dB(A))	70	115	

Reference Method : ISO 1996-1 : 2016
Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป
2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดค่าระดับเสียงการรบกวน และระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548
Remark : The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management Chontichak
Chonticha Subongkoch
Scientist (3)

Approved by Supt S
Supot Salamteh
Section Head

LABORATORY ACCREDITATION
BLA-DSS

Analysis / Test Report

TESTING
No.0042

Client : WHA Eastern Industrial Estate Co., Ltd.
18, Pakornsongkrohraj Road, Tambol Huaypong, Amphur Muang, Rayong Thailand 21150
P/O :
Project Name : Monitoring
Project Location : WHA EIE

Lot ID: 2613379
Date Received : Mar 09, 2026
Date Reported : Mar 12, 2026
Report Number: 3525946-1

Sample Number	2613379-4
Parameter	Noise (Leq 24 hrs)
Location	ริมรั้วนิคมฯ ทางด้านทิศเหนือ (บริเวณที่อยู่ใกล้เคียงพื้นที่ชุมชนมากที่สุด)(N1) (GPS 47P 729363, 1405578)
Measurement Date	Mar 04 - Mar 05, 2026
Measurement by	Nontachai Uppathamp
Sound Level meter	Serial No. 1173609

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
11:00 AM - 12:00 PM	52.6	74.3	48.0
12:00 PM - 01:00 PM	53.2	73.8	48.6
01:00 PM - 02:00 PM	54.1	78.3	49.0
02:00 PM - 03:00 PM	53.7	74.4	49.1
03:00 PM - 04:00 PM	52.1	69.8	48.8
04:00 PM - 05:00 PM	53.9	84.4	49.0
05:00 PM - 06:00 PM	52.9	77.8	49.4
06:00 PM - 07:00 PM	58.2	69.9	51.5
07:00 PM - 08:00 PM	53.8	72.8	51.2
08:00 PM - 09:00 PM	54.0	71.1	50.7
09:00 PM - 10:00 PM	52.3	69.8	51.0
10:00 PM - 11:00 PM	55.4	83.2	50.6
11:00 PM - 12:00 AM	53.3	68.5	50.8
12:00 AM - 01:00 AM	52.0	67.1	50.4
01:00 AM - 02:00 AM	51.3	65.7	50.3
02:00 AM - 03:00 AM	55.8	70.5	50.5
03:00 AM - 04:00 AM	50.6	65.5	49.4
04:00 AM - 05:00 AM	50.2	63.9	49.2
05:00 AM - 06:00 AM	58.9	77.4	49.4
06:00 AM - 07:00 AM	53.3	69.5	48.9
07:00 AM - 08:00 AM	54.7	80.3	46.8
08:00 AM - 09:00 AM	54.5	79.2	47.0
09:00 AM - 10:00 AM	52.2	70.4	47.6
10:00 AM - 11:00 AM	51.5	77.1	47.7
Leq Average 24 hrs. (dB(A))	54.1		
Lmax (dB(A))		84.4	
L90 (dB(A))			49.2
Ldn (dB(A))	60.7		
Standard (dB(A))	70	115	

Reference Method : ISO 1996-1 : 2016
Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป
2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดค่าระดับเสียงการรบกวน และระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548
Remark : The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management Chontichak
Chonticha Subongkoch
Scientist (3)

Approved by Supt S
Supot Salamteh
Section Head

LABORATORY ACCREDITATION
BLA-DSS

Analysis / Test Report

TESTING
No.0042

Client : WHA Eastern Industrial Estate Co., Ltd.
18, Pakornsongkrohraj Road, Tambol Huaypong, Amphur Muang, Rayong Thailand 21150
P/O :
Project Name : Monitoring
Project Location : WHA EIE

Lot ID: 2613379
Date Received : Mar 09, 2026
Date Reported : Mar 12, 2026
Report Number: 3525945-1

Sample Number	2613379-3
Parameter	Noise (Leq 24 hrs)
Location	ริมรั้วนิคมฯ ทางด้านทิศเหนือ (บริเวณที่อยู่ใกล้เคียงพื้นที่ชุมชนมากที่สุด)(N1) (GPS 47P 729363, 1405578)
Measurement Date	Mar 03 - Mar 04, 2026
Measurement by	Nontachai Uppathamp
Sound Level meter	Serial No. 1173609

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
11:00 AM - 12:00 PM	50.6	69.2	47.1
12:00 PM - 01:00 PM	54.0	74.6	48.1
01:00 PM - 02:00 PM	51.2	71.0	47.7
02:00 PM - 03:00 PM	51.2	76.3	48.3
03:00 PM - 04:00 PM	52.5	74.3	48.1
04:00 PM - 05:00 PM	51.6	76.2	48.0
05:00 PM - 06:00 PM	53.4	76.2	48.8
06:00 PM - 07:00 PM	60.1	73.9	51.4
07:00 PM - 08:00 PM	52.9	78.9	49.7
08:00 PM - 09:00 PM	52.6	70.6	49.6
09:00 PM - 10:00 PM	53.2	64.8	50.9
10:00 PM - 11:00 PM	51.6	68.4	50.4
11:00 PM - 12:00 AM	55.4	72.3	50.3
12:00 AM - 01:00 AM	51.8	72.1	50.0
01:00 AM - 02:00 AM	50.6	63.9	49.7
02:00 AM - 03:00 AM	51.8	72.2	49.9
03:00 AM - 04:00 AM	51.5	68.8	49.5
04:00 AM - 05:00 AM	54.0	72.0	49.6
05:00 AM - 06:00 AM	59.8	74.6	49.8
06:00 AM - 07:00 AM	68.1	112.2	50.0
07:00 AM - 08:00 AM	53.2	70.1	46.7
08:00 AM - 09:00 AM	53.5	72.8	45.4
09:00 AM - 10:00 AM	51.3	71.9	44.9
10:00 AM - 11:00 AM	51.2	74.6	45.3
Leq Average 24 hrs. (dB(A))	57.1		
Lmax (dB(A))		112.2	
L90 (dB(A))			49.5
Ldn (dB(A))	65.8		
Standard (dB(A))	70	115	

Reference Method : ISO 1996-1 : 2016
Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป
2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดค่าระดับเสียงการรบกวน และระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548
Remark : The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management Chontichak
Chonticha Subongkoch
Scientist (3)

Approved by Supt S
Supot Salamteh
Section Head

Analysis / Test Report

TESTING
No.0042

Client : WHA Eastern Industrial Estate Co., Ltd.
18, Pakornsongkrohraj Road, Tambol Huaypong, Amphur Muang, Rayong Thailand 21150
P/O :
Project Name : Monitoring
Project Location : WHA EIE

Lot ID: 2613379
Date Received : Mar 09, 2026
Date Reported : Mar 12, 2026
Report Number: 3525948-1

Sample Number	2613379-6
Parameter	Noise (Leq 24 hrs)
Location	ริมรั้วนิคมฯ ทางด้านทิศใต้ (บริเวณที่อยู่ใกล้เคียงพื้นที่ชุมชนมากที่สุด)(N2) (GPS 47P 730277, 1403898)
Measurement Date	Mar 02 - Mar 03, 2026
Measurement by	Nontachai Uppathamp
Sound Level meter	Serial No. 623391

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
09:00 AM - 10:00 AM	58.6	72.7	54.1
10:00 AM - 11:00 AM	61.5	89.9	55.3
11:00 AM - 12:00 PM	59.1	78.2	55.9
12:00 PM - 01:00 PM	58.9	82.3	55.9
01:00 PM - 02:00 PM	58.5	76.8	55.3
02:00 PM - 03:00 PM	63.8	88.5	56.3
03:00 PM - 04:00 PM	59.4	75.4	56.6
04:00 PM - 05:00 PM	64.2	82.4	55.6
05:00 PM - 06:00 PM	62.8	81.8	55.0
06:00 PM - 07:00 PM	69.8	84.2	57.9
07:00 PM - 08:00 PM	62.8	84.9	54.5
08:00 PM - 09:00 PM	58.2	76.0	54.8
09:00 PM - 10:00 PM	60.1	78.9	54.9
10:00 PM - 11:00 PM	67.2	75.8	61.1
11:00 PM - 12:00 AM	63.0	72.1	57.8
12:00 AM - 01:00 AM	58.1	75.8	56.7
01:00 AM - 02:00 AM	59.0	72.4	57.7
02:00 AM - 03:00 AM	58.2	65.9	57.2
03:00 AM - 04:00 AM	69.0	82.1	57.4
04:00 AM - 05:00 AM	66.1	78.5	61.2
05:00 AM - 06:00 AM	60.0	71.1	57.2
06:00 AM - 07:00 AM	60.2	77.2	57.0
07:00 AM - 08:00 AM	59.9	81.8	56.5
08:00 AM - 09:00 AM	59.3	79.5	53.2
Leq Average 24 hrs. (dB(A))	63.2		
Lmax (dB(A))		89.9	
L90 (dB(A))			56.3
Ldn (dB(A))	70.4		
Standard (dB(A))	70	115	

Reference Method : ISO 1996-1 : 2016
Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป
2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดค่าระดับเสียงการรบกวน และระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548
Remark : The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management Chonticha
Chonticha Subongkoch
Scientist (3)

Approved by Supot S.
Supot Salamteh
Section Head

Analysis / Test Report

TESTING
No.0042

Client : WHA Eastern Industrial Estate Co., Ltd.
18, Pakornsongkrohraj Road, Tambol Huaypong, Amphur Muang, Rayong Thailand 21150
P/O :
Project Name : Monitoring
Project Location : WHA EIE

Lot ID: 2613379
Date Received : Mar 09, 2026
Date Reported : Mar 12, 2026
Report Number : 3525947-1

Sample Number	2613379-5
Parameter	Noise (Leq 24 hrs)
Location	ริมรั้วนิคมฯ ทางด้านทิศใต้ (บริเวณที่อยู่ใกล้เคียงพื้นที่ชุมชนมากที่สุด)(N2) (GPS 47P 730277, 1403898)
Measurement Date	Mar 01 - Mar 02, 2026
Measurement by	Nontachai Uppathamp
Sound Level meter	Serial No. 623391

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
09:00 AM - 10:00 AM	57.4	94.7	49.5
10:00 AM - 11:00 AM	54.6	79.1	49.8
11:00 AM - 12:00 PM	54.0	73.7	49.7
12:00 PM - 01:00 PM	54.6	73.4	49.7
01:00 PM - 02:00 PM	60.3	88.7	49.6
02:00 PM - 03:00 PM	54.4	77.4	49.6
03:00 PM - 04:00 PM	54.7	77.7	49.5
04:00 PM - 05:00 PM	55.2	76.6	50.2
05:00 PM - 06:00 PM	55.3	79.8	50.7
06:00 PM - 07:00 PM	56.3	76.4	51.6
07:00 PM - 08:00 PM	54.7	73.6	51.4
08:00 PM - 09:00 PM	53.6	72.6	51.4
09:00 PM - 10:00 PM	53.5	72.4	51.3
10:00 PM - 11:00 PM	52.9	73.7	51.0
11:00 PM - 12:00 AM	53.2	78.2	50.9
12:00 AM - 01:00 AM	52.4	72.7	50.9
01:00 AM - 02:00 AM	53.4	72.6	50.8
02:00 AM - 03:00 AM	58.5	78.8	51.0
03:00 AM - 04:00 AM	58.3	85.0	50.9
04:00 AM - 05:00 AM	53.7	74.2	51.0
05:00 AM - 06:00 AM	58.0	79.8	51.1
06:00 AM - 07:00 AM	63.4	84.4	52.3
07:00 AM - 08:00 AM	62.2	80.2	55.0
08:00 AM - 09:00 AM	60.9	75.9	57.7
Leq Average 24 hrs. (dB(A))	57.3		
Lmax (dB(A))		94.7	
L90 (dB(A))			50.9
Ldn (dB(A))	64.0		
Standard (dB(A))	70	115	

Reference Method : ISO 1996-1 : 2016
Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป
2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดค่าระดับเสียงการรบกวน และระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548
Remark : The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management Chonticha
Chonticha Subongkoch
Scientist (3)

Approved by Supot S.
Supot Salamteh
Section Head

Analysis / Test Report

TESTING
No.0042

Client : WHA Eastern Industrial Estate Co., Ltd.
18, Pakornsongkrohraj Road, Tambol Huaypong, Amphur Muang, Rayong Thailand 21150
P/O :
Project Name : Monitoring
Project Location : WHA EIE

Lot ID: 2613379
Date Received : Mar 09, 2026
Date Reported : Mar 12, 2026
Report Number: 3525950-1

Sample Number	2613379-8
Parameter	Noise (Leq 24 hrs)
Location	ริมรั้วนิคมฯ ทางด้านทิศใต้ (บริเวณที่อยู่ใกล้เคียงพื้นที่ชุมชนมากที่สุด)(N2) (GPS 47P 730277, 1403898)
Measurement Date	Mar 04 - Mar 05, 2026
Measurement by	Nontachai Uppathamp
Sound Level meter	Serial No. 623391

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
09:00 AM - 10:00 AM	57.0	76.0	49.6
10:00 AM - 11:00 AM	54.6	71.1	49.7
11:00 AM - 12:00 PM	56.5	76.2	50.8
12:00 PM - 01:00 PM	55.7	75.5	50.5
01:00 PM - 02:00 PM	56.3	80.8	50.3
02:00 PM - 03:00 PM	55.5	76.8	50.3
03:00 PM - 04:00 PM	60.9	87.2	50.1
04:00 PM - 05:00 PM	57.8	81.1	50.7
05:00 PM - 06:00 PM	57.5	74.4	51.1
06:00 PM - 07:00 PM	58.5	90.6	52.3
07:00 PM - 08:00 PM	55.5	78.7	51.5
08:00 PM - 09:00 PM	59.9	82.8	51.6
09:00 PM - 10:00 PM	57.3	79.8	51.5
10:00 PM - 11:00 PM	53.6	69.0	51.5
11:00 PM - 12:00 AM	53.3	73.0	51.7
12:00 AM - 01:00 AM	53.2	77.1	51.1
01:00 AM - 02:00 AM	52.8	67.2	51.0
02:00 AM - 03:00 AM	52.2	68.0	50.7
03:00 AM - 04:00 AM	54.1	76.8	50.6
04:00 AM - 05:00 AM	55.6	75.9	50.8
05:00 AM - 06:00 AM	55.7	74.2	50.8
06:00 AM - 07:00 AM	61.9	87.4	52.5
07:00 AM - 08:00 AM	58.4	78.5	52.7
08:00 AM - 09:00 AM	55.6	75.9	50.6
Leq Average 24 hrs. (dB(A))	57.0		
Lmax (dB(A))		90.6	
L90 (dB(A))			50.8
Ldn (dB(A))	62.6		
Standard (dB(A))	70	115	

Reference Method : ISO 1996-1 : 2016
Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป
2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดค่าระดับเสียงการรบกวน และระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548
Remark : The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management Chontichak
Chonticha Subongkoch
Scientist (3)

Approved by Supt S
Supot Salamteh
Section Head

Analysis / Test Report

TESTING
No.0042

Client : WHA Eastern Industrial Estate Co., Ltd.
18, Pakornsongkrohraj Road, Tambol Huaypong, Amphur Muang, Rayong Thailand 21150
P/O :
Project Name : Monitoring
Project Location : WHA EIE

Lot ID: 2613379
Date Received : Mar 09, 2026
Date Reported : Mar 12, 2026
Report Number: 3525949-1

Sample Number	2613379-7
Parameter	Noise (Leq 24 hrs)
Location	ริมรั้วนิคมฯ ทางด้านทิศใต้ (บริเวณที่อยู่ใกล้เคียงพื้นที่ชุมชนมากที่สุด)(N2) (GPS 47P 730277, 1403898)
Measurement Date	Mar 03 - Mar 04, 2026
Measurement by	Nontachai Uppathamp
Sound Level meter	Serial No. 623391

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
09:00 AM - 10:00 AM	58.3	77.3	53.6
10:00 AM - 11:00 AM	57.9	75.0	55.1
11:00 AM - 12:00 PM	58.0	83.3	55.0
12:00 PM - 01:00 PM	57.7	72.6	55.1
01:00 PM - 02:00 PM	57.8	72.3	55.0
02:00 PM - 03:00 PM	61.4	82.8	55.5
03:00 PM - 04:00 PM	58.1	77.5	55.4
04:00 PM - 05:00 PM	58.9	89.0	54.4
05:00 PM - 06:00 PM	56.5	76.5	53.3
06:00 PM - 07:00 PM	57.9	78.6	54.0
07:00 PM - 08:00 PM	56.1	70.4	53.3
08:00 PM - 09:00 PM	55.3	77.2	52.4
09:00 PM - 10:00 PM	55.3	74.7	52.8
10:00 PM - 11:00 PM	55.7	66.9	53.6
11:00 PM - 12:00 AM	55.8	77.0	52.1
12:00 AM - 01:00 AM	58.2	80.0	51.7
01:00 AM - 02:00 AM	58.5	79.4	51.6
02:00 AM - 03:00 AM	53.5	77.9	51.5
03:00 AM - 04:00 AM	53.3	69.2	51.5
04:00 AM - 05:00 AM	53.5	67.6	51.3
05:00 AM - 06:00 AM	54.7	72.3	51.5
06:00 AM - 07:00 AM	60.1	77.7	52.8
07:00 AM - 08:00 AM	60.1	79.5	51.9
08:00 AM - 09:00 AM	56.2	86.5	50.3
Leq Average 24 hrs. (dB(A))	57.5		
Lmax (dB(A))		89.0	
L90 (dB(A))			52.8
Ldn (dB(A))	63.2		
Standard (dB(A))	70	115	

Reference Method : ISO 1996-1 : 2016
Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป
2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดค่าระดับเสียงการรบกวน และระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548
Remark : The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management Chontichak
Chonticha Subongkoch
Scientist (3)

Approved by Supt S
Supot Salamteh
Section Head

LABORATORY ACCREDITATION
BLA-DSS

Analysis / Test Report

TESTING
No.0042

Client : WHA Eastern Industrial Estate Co., Ltd.
18, Pakornsongkrohraj Road, Tambol Huaypong, Amphur Muang, Rayong Thailand 21150
P/O :
Project Name : Monitoring
Project Location : WHA EIE

Lot ID: 2613379
Date Received : Mar 09, 2026
Date Reported : Mar 12, 2026
Report Number: 3525952-1

Sample Number 2613379-10
Parameter Noise (Leq 24 hrs)
Location สำนักงานนิคมอุตสาหกรรมดับบลิวเอชเอตะวันออก(มาบตาพุด)(N3) (GPS 47P 0730910, 1405267)
Measurement Date Mar 02 - Mar 03, 2026
Measurement by Nontachai Uppathamp
Sound Level meter Serial No. 873109

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
10:00 AM - 11:00 AM	59.6	75.5	56.2
11:00 AM - 12:00 PM	58.7	79.3	55.7
12:00 PM - 01:00 PM	58.5	76.0	55.9
01:00 PM - 02:00 PM	59.2	81.8	56.0
02:00 PM - 03:00 PM	59.5	79.9	56.2
03:00 PM - 04:00 PM	58.8	75.6	55.9
04:00 PM - 05:00 PM	60.3	80.1	56.7
05:00 PM - 06:00 PM	60.9	81.1	57.1
06:00 PM - 07:00 PM	61.3	78.2	57.6
07:00 PM - 08:00 PM	59.1	76.3	56.7
08:00 PM - 09:00 PM	58.1	78.1	56.5
09:00 PM - 10:00 PM	58.1	75.6	56.8
10:00 PM - 11:00 PM	58.2	71.2	57.0
11:00 PM - 12:00 AM	57.8	75.6	56.6
12:00 AM - 01:00 AM	57.5	76.7	56.7
01:00 AM - 02:00 AM	57.5	73.6	56.6
02:00 AM - 03:00 AM	57.5	69.6	56.5
03:00 AM - 04:00 AM	57.9	78.0	56.8
04:00 AM - 05:00 AM	61.3	90.3	57.0
05:00 AM - 06:00 AM	61.7	76.2	57.0
06:00 AM - 07:00 AM	60.1	77.5	56.9
07:00 AM - 08:00 AM	59.5	81.6	56.1
08:00 AM - 09:00 AM	58.7	77.7	55.6
09:00 AM - 10:00 AM	58.7	77.6	55.7

Leq Average 24 hrs. (dB(A))	59.3		
Lmax (dB(A))		90.3	
L90 (dB(A))			56.6
Ldn (dB(A))	65.6		
Standard (dB(A))	70	115	

Reference Method : ISO 1996-1 : 2016
Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป
2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดค่าระดับเสียงการรบกวน และระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548
Remark : The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management Chonticha
Chonticha Subongkoch
Scientist (3)

Approved by Supot S
Supot Salamteh
Section Head

LABORATORY ACCREDITATION
BLA-DSS

Analysis / Test Report

TESTING
No.0042

Client : WHA Eastern Industrial Estate Co., Ltd.
18, Pakornsongkrohraj Road, Tambol Huaypong, Amphur Muang, Rayong Thailand 21150
P/O :
Project Name : Monitoring
Project Location : WHA EIE

Lot ID: 2613379
Date Received : Mar 09, 2026
Date Reported : Mar 12, 2026
Report Number: 3525951-1

Sample Number 2613379-9
Parameter Noise (Leq 24 hrs)
Location สำนักงานนิคมอุตสาหกรรมดับบลิวเอชเอตะวันออก(มาบตาพุด)(N3) (GPS 47P 0730910, 1405267)
Measurement Date Mar 01 - Mar 02, 2026
Measurement by Nontachai Uppathamp
Sound Level meter Serial No. 873109

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
10:00 AM - 11:00 AM	58.8	81.8	55.6
11:00 AM - 12:00 PM	58.0	77.0	55.3
12:00 PM - 01:00 PM	58.1	82.7	55.4
01:00 PM - 02:00 PM	57.8	75.2	55.7
02:00 PM - 03:00 PM	58.7	78.6	55.4
03:00 PM - 04:00 PM	59.5	75.5	55.4
04:00 PM - 05:00 PM	58.7	75.5	56.0
05:00 PM - 06:00 PM	59.6	81.7	56.2
06:00 PM - 07:00 PM	60.0	80.7	56.8
07:00 PM - 08:00 PM	58.5	76.3	56.3
08:00 PM - 09:00 PM	58.5	78.1	56.3
09:00 PM - 10:00 PM	58.0	77.9	56.3
10:00 PM - 11:00 PM	57.6	73.9	56.3
11:00 PM - 12:00 AM	57.5	70.4	56.4
12:00 AM - 01:00 AM	57.8	74.6	56.6
01:00 AM - 02:00 AM	57.6	72.8	56.5
02:00 AM - 03:00 AM	57.5	72.4	56.5
03:00 AM - 04:00 AM	57.9	77.0	56.6
04:00 AM - 05:00 AM	58.5	76.3	56.7
05:00 AM - 06:00 AM	59.5	77.7	56.8
06:00 AM - 07:00 AM	60.0	73.9	57.0
07:00 AM - 08:00 AM	61.9	78.6	57.0
08:00 AM - 09:00 AM	59.0	79.2	55.5
09:00 AM - 10:00 AM	59.8	75.4	55.4

Leq Average 24 hrs. (dB(A))	58.8		
Lmax (dB(A))		82.7	
L90 (dB(A))			56.3
Ldn (dB(A))	64.8		
Standard (dB(A))	70	115	

Reference Method : ISO 1996-1 : 2016
Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป
2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดค่าระดับเสียงการรบกวน และระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548
Remark : The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management Chonticha
Chonticha Subongkoch
Scientist (3)

Approved by Supot S
Supot Salamteh
Section Head

LABORATORY ACCREDITATION
BLA-DSS

TESTING
No.0042

Analysis / Test Report

Client : WHA Eastern Industrial Estate Co., Ltd.
18, Pakornsongkrohraj Road, Tambol Huaypong, Amphur Muang, Rayong Thailand 21150
P/O :
Project Name : Monitoring
Project Location : WHA EIE

Lot ID: 2613379
Date Received : Mar 09, 2026
Date Reported : Mar 12, 2026
Report Number: 3525954-1

Page 1 of 1

Sample Number	2613379-12
Parameter	Noise (Leq 24 hrs)
Location	สำนักงานนิคมอุตสาหกรรมดับบลิวเอชเอตะวันออก(มาบตาพุด)(N3) (GPS 47P 0730910, 1405267)
Measurement Date	Mar 04 - Mar 05, 2026
Measurement by	Nontachai Uppathamp
Sound Level meter	Serial No. 873109

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
10:00 AM - 11:00 AM	60.5	76.7	55.8
11:00 AM - 12:00 PM	59.5	81.1	56.0
12:00 PM - 01:00 PM	59.4	79.2	56.0
01:00 PM - 02:00 PM	59.7	77.6	56.4
02:00 PM - 03:00 PM	60.1	81.9	56.6
03:00 PM - 04:00 PM	60.5	77.2	56.5
04:00 PM - 05:00 PM	58.5	76.2	56.2
05:00 PM - 06:00 PM	59.8	77.9	56.7
06:00 PM - 07:00 PM	60.4	81.9	57.1
07:00 PM - 08:00 PM	59.3	76.2	56.6
08:00 PM - 09:00 PM	59.9	79.1	56.8
09:00 PM - 10:00 PM	59.2	74.9	56.5
10:00 PM - 11:00 PM	58.6	77.4	56.4
11:00 PM - 12:00 AM	58.7	73.3	56.8
12:00 AM - 01:00 AM	58.7	77.0	56.9
01:00 AM - 02:00 AM	58.6	77.6	56.8
02:00 AM - 03:00 AM	57.8	75.5	56.5
03:00 AM - 04:00 AM	57.9	73.5	56.5
04:00 AM - 05:00 AM	58.0	73.5	56.7
05:00 AM - 06:00 AM	59.4	74.9	56.9
06:00 AM - 07:00 AM	60.3	75.5	57.2
07:00 AM - 08:00 AM	61.1	78.0	56.8
08:00 AM - 09:00 AM	59.8	77.1	55.9
09:00 AM - 10:00 AM	58.9	78.1	55.7
Leq Average 24 hrs. (dB(A))	59.4		
Lmax (dB(A))		81.9	
L90 (dB(A))			56.5
Ldn (dB(A))	65.3		
Standard (dB(A))	70	115	

Reference Method : ISO 1996-1 : 2016

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

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

Technical Management Chontichak
Chonticha Subongkoch
Scientist (3)

Approved by
Supot Salamteh
Section Head

LABORATORY ACCREDITATION
BLA-DSS

TESTING
No.0042

Analysis / Test Report

Client : WHA Eastern Industrial Estate Co., Ltd.
18, Pakornsongkrohraj Road, Tambol Huaypong, Amphur Muang, Rayong Thailand 21150
P/O :
Project Name : Monitoring
Project Location : WHA EIE

Lot ID: 2613379
Date Received : Mar 09, 2026
Date Reported : Mar 12, 2026
Report Number: 3525953-1

Page 1 of 1

Sample Number	2613379-11
Parameter	Noise (Leq 24 hrs)
Location	สำนักงานนิคมอุตสาหกรรมดับบลิวเอชเอตะวันออก(มาบตาพุด)(N3) (GPS 47P 0730910, 1405267)
Measurement Date	Mar 03 - Mar 04, 2026
Measurement by	Nontachai Uppathamp
Sound Level meter	Serial No. 873109

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
10:00 AM - 11:00 AM	58.6	75.8	55.9
11:00 AM - 12:00 PM	58.2	77.5	55.4
12:00 PM - 01:00 PM	59.6	80.1	55.5
01:00 PM - 02:00 PM	58.3	77.9	55.6
02:00 PM - 03:00 PM	58.1	73.2	56.1
03:00 PM - 04:00 PM	58.3	78.8	55.8
04:00 PM - 05:00 PM	59.2	75.9	55.6
05:00 PM - 06:00 PM	58.7	78.2	56.0
06:00 PM - 07:00 PM	60.2	79.2	56.6
07:00 PM - 08:00 PM	58.8	77.7	56.4
08:00 PM - 09:00 PM	58.7	78.2	56.7
09:00 PM - 10:00 PM	58.3	75.6	56.9
10:00 PM - 11:00 PM	57.7	73.8	56.8
11:00 PM - 12:00 AM	58.4	77.0	56.9
12:00 AM - 01:00 AM	58.3	72.0	56.9
01:00 AM - 02:00 AM	58.3	76.4	56.9
02:00 AM - 03:00 AM	58.2	71.0	56.9
03:00 AM - 04:00 AM	58.3	75.2	56.8
04:00 AM - 05:00 AM	58.6	75.5	56.8
05:00 AM - 06:00 AM	59.5	81.0	56.8
06:00 AM - 07:00 AM	60.5	78.4	56.9
07:00 AM - 08:00 AM	60.6	74.9	56.2
08:00 AM - 09:00 AM	60.1	78.5	55.4
09:00 AM - 10:00 AM	59.7	77.1	55.7
Leq Average 24 hrs. (dB(A))	59.0		
Lmax (dB(A))		81.0	
L90 (dB(A))			56.4
Ldn (dB(A))	65.2		
Standard (dB(A))	70	115	

Reference Method : ISO 1996-1 : 2016

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

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

Technical Management Chontichak
Chonticha Subongkoch
Scientist (3)

Approved by
Supot Salamteh
Section Head

Analysis / Test Report

LABORATORY ACCREDITATION
BLA-DSS
TESTING
No.0042

Client : WHA Eastern Industrial Estate Co., Ltd.
18, Pakornsongkrohraj Road, Tambol Huaypong, Amphur Muang, Rayong Thailand 21150
P/O :
Project Name : Monitoring
Project Location : WHA EIE

Lot ID: 2613379
Date Received : Mar 09, 2026
Date Reported : Mar 12, 2026
Report Number: 3525956-1

Sample Number	2613379-14
Parameter	Noise (Leq 24 hrs)
Location	วัดหนองแฟบ (N4) (GPS 47P 0729830, 1403321)
Measurement Date	Mar 02 - Mar 03, 2026
Measurement by	Nontachai Uppathamp
Sound Level meter	Serial No. 296516

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
09:00 AM - 10:00 AM	54.3	74.3	45.4
10:00 AM - 11:00 AM	51.5	73.4	45.5
11:00 AM - 12:00 PM	54.0	74.1	46.9
12:00 PM - 01:00 PM	51.7	79.9	45.7
01:00 PM - 02:00 PM	50.0	67.7	45.7
02:00 PM - 03:00 PM	51.2	70.2	48.2
03:00 PM - 04:00 PM	57.6	77.8	48.6
04:00 PM - 05:00 PM	59.5	77.4	48.4
05:00 PM - 06:00 PM	66.4	77.9	60.9
06:00 PM - 07:00 PM	67.2	76.9	50.4
07:00 PM - 08:00 PM	52.8	72.2	45.9
08:00 PM - 09:00 PM	47.3	62.6	44.6
09:00 PM - 10:00 PM	47.2	65.4	43.7
10:00 PM - 11:00 PM	53.7	68.7	48.0
11:00 PM - 12:00 AM	50.8	68.9	47.4
12:00 AM - 01:00 AM	62.2	73.4	44.0
01:00 AM - 02:00 AM	56.2	70.9	45.9
02:00 AM - 03:00 AM	46.8	61.8	44.7
03:00 AM - 04:00 AM	53.2	64.4	44.7
04:00 AM - 05:00 AM	54.5	65.0	48.9
05:00 AM - 06:00 AM	61.6	75.1	49.1
06:00 AM - 07:00 AM	70.0	79.4	56.1
07:00 AM - 08:00 AM	62.9	77.4	51.0
08:00 AM - 09:00 AM	54.2	75.2	45.6
Leq Average 24 hrs. (dB(A))	60.8		
Lmax (dB(A))		79.9	
L90 (dB(A))			45.9
Ldn (dB(A))	68.2		
Standard (dB(A))	70	115	

Reference Method : ISO 1996-1 : 2016
Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป
2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดค่าระดับเสียงการรบกวน และระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548
Remark : The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management Chonticha
Chonticha Subongkoch
Scientist (3)

Approved by Supot S
Supot Salamteh
Section Head

Analysis / Test Report

LABORATORY ACCREDITATION
BLA-DSS
TESTING
No.0042

Client : WHA Eastern Industrial Estate Co., Ltd.
18, Pakornsongkrohraj Road, Tambol Huaypong, Amphur Muang, Rayong Thailand 21150
P/O :
Project Name : Monitoring
Project Location : WHA EIE

Lot ID: 2613379
Date Received : Mar 09, 2026
Date Reported : Mar 12, 2026
Report Number: 3525955-1

Sample Number	2613379-13
Parameter	Noise (Leq 24 hrs)
Location	วัดหนองแฟบ (N4) (GPS 47P 0729830, 1403321)
Measurement Date	Mar 01 - Mar 02, 2026
Measurement by	Nontachai Uppathamp
Sound Level meter	Serial No. 296516

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
09:00 AM - 10:00 AM	54.0	85.4	43.7
10:00 AM - 11:00 AM	50.4	66.2	44.2
11:00 AM - 12:00 PM	50.4	68.7	44.7
12:00 PM - 01:00 PM	51.7	75.9	44.3
01:00 PM - 02:00 PM	51.2	71.7	44.3
02:00 PM - 03:00 PM	47.9	63.8	43.2
03:00 PM - 04:00 PM	50.0	73.1	42.8
04:00 PM - 05:00 PM	49.3	72.7	42.5
05:00 PM - 06:00 PM	49.2	72.7	43.9
06:00 PM - 07:00 PM	62.3	80.4	44.2
07:00 PM - 08:00 PM	47.6	70.3	42.6
08:00 PM - 09:00 PM	51.1	65.5	42.2
09:00 PM - 10:00 PM	51.4	68.9	42.2
10:00 PM - 11:00 PM	58.5	71.8	40.8
11:00 PM - 12:00 AM	43.0	63.6	39.7
12:00 AM - 01:00 AM	43.0	66.6	39.9
01:00 AM - 02:00 AM	60.9	71.9	40.9
02:00 AM - 03:00 AM	42.1	59.7	39.5
03:00 AM - 04:00 AM	44.3	70.5	39.1
04:00 AM - 05:00 AM	44.4	67.3	39.1
05:00 AM - 06:00 AM	48.7	71.9	39.4
06:00 AM - 07:00 AM	67.2	78.0	45.9
07:00 AM - 08:00 AM	63.5	79.5	49.9
08:00 AM - 09:00 AM	56.0	76.8	47.8
Leq Average 24 hrs. (dB(A))	57.4		
Lmax (dB(A))		85.4	
L90 (dB(A))			42.6
Ldn (dB(A))	65.2		
Standard (dB(A))	70	115	

Reference Method : ISO 1996-1 : 2016
Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป
2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดค่าระดับเสียงการรบกวน และระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548
Remark : The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management Chonticha
Chonticha Subongkoch
Scientist (3)

Approved by Supot S
Supot Salamteh
Section Head

Analysis / Test Report

TESTING
No.0042

Client : WHA Eastern Industrial Estate Co., Ltd.
18, Pakornsongkrohraj Road, Tambol Huaypong, Amphur Muang, Rayong Thailand 21150
P/O :
Project Name : Monitoring
Project Location : WHA EIE

Lot ID: 2613379
Date Received : Mar 09, 2026
Date Reported : Mar 12, 2026
Report Number: 3525958-1

Sample Number	2613379-16
Parameter	Noise (Leq 24 hrs)
Location	วัดหนองแฟบ (N4) (GPS 47P 0729830, 1403321)
Measurement Date	Mar 04 - Mar 05, 2026
Measurement by	Nontachai Uppathamp
Sound Level meter	Serial No. 296516

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
09:00 AM - 10:00 AM	50.9	73.6	45.2
10:00 AM - 11:00 AM	50.7	73.4	45.7
11:00 AM - 12:00 PM	53.5	71.8	46.8
12:00 PM - 01:00 PM	51.0	70.5	45.5
01:00 PM - 02:00 PM	50.1	65.6	45.4
02:00 PM - 03:00 PM	51.6	79.0	46.0
03:00 PM - 04:00 PM	49.4	72.5	45.3
04:00 PM - 05:00 PM	54.4	76.5	45.7
05:00 PM - 06:00 PM	49.7	68.1	44.1
06:00 PM - 07:00 PM	68.3	78.9	45.3
07:00 PM - 08:00 PM	47.5	64.0	44.4
08:00 PM - 09:00 PM	46.9	67.3	43.4
09:00 PM - 10:00 PM	58.2	71.2	43.7
10:00 PM - 11:00 PM	45.8	63.8	43.1
11:00 PM - 12:00 AM	46.4	61.3	43.2
12:00 AM - 01:00 AM	43.2	60.8	40.0
01:00 AM - 02:00 AM	44.7	66.6	39.2
02:00 AM - 03:00 AM	43.9	71.9	38.9
03:00 AM - 04:00 AM	42.6	65.6	38.7
04:00 AM - 05:00 AM	42.5	62.5	38.4
05:00 AM - 06:00 AM	61.4	77.5	39.6
06:00 AM - 07:00 AM	68.0	78.9	46.6
07:00 AM - 08:00 AM	53.2	73.0	46.6
08:00 AM - 09:00 AM	51.2	73.2	44.2
Leq Average 24 hrs. (dB(A))	58.5		
Lmax (dB(A))		79.0	
L90 (dB(A))			44.2
Ldn (dB(A))	65.6		
Standard (dB(A))	70	115	

Reference Method : ISO 1996-1 : 2016
Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป
2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดค่าระดับเสียงการรบกวน และระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548
Remark : The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management Chonticha
Chonticha Subongkoch
Scientist (3)

Approved by
Supot Salamteh
Section Head

Analysis / Test Report

TESTING
No.0042

Client : WHA Eastern Industrial Estate Co., Ltd.
18, Pakornsongkrohraj Road, Tambol Huaypong, Amphur Muang, Rayong Thailand 21150
P/O :
Project Name : Monitoring
Project Location : WHA EIE

Lot ID: 2613379
Date Received : Mar 09, 2026
Date Reported : Mar 12, 2026
Report Number: 3525957-1

Sample Number	2613379-15
Parameter	Noise (Leq 24 hrs)
Location	วัดหนองแฟบ (N4) (GPS 47P 0729830, 1403321)
Measurement Date	Mar 03 - Mar 04, 2026
Measurement by	Nontachai Uppathamp
Sound Level meter	Serial No. 296516

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
09:00 AM - 10:00 AM	54.1	75.0	45.6
10:00 AM - 11:00 AM	55.6	76.6	48.0
11:00 AM - 12:00 PM	55.2	75.1	49.9
12:00 PM - 01:00 PM	54.8	78.5	47.3
01:00 PM - 02:00 PM	51.3	71.0	46.7
02:00 PM - 03:00 PM	51.7	73.7	46.8
03:00 PM - 04:00 PM	51.1	70.3	45.8
04:00 PM - 05:00 PM	51.1	74.4	45.5
05:00 PM - 06:00 PM	52.6	73.6	44.0
06:00 PM - 07:00 PM	68.2	77.3	50.1
07:00 PM - 08:00 PM	49.0	61.9	46.3
08:00 PM - 09:00 PM	47.8	66.7	43.5
09:00 PM - 10:00 PM	47.8	70.9	42.7
10:00 PM - 11:00 PM	53.8	65.0	42.7
11:00 PM - 12:00 AM	53.3	79.7	41.4
12:00 AM - 01:00 AM	44.9	59.3	40.3
01:00 AM - 02:00 AM	61.6	71.3	39.9
02:00 AM - 03:00 AM	42.7	61.9	39.7
03:00 AM - 04:00 AM	42.7	60.8	39.8
04:00 AM - 05:00 AM	43.4	65.3	38.9
05:00 AM - 06:00 AM	62.0	78.0	39.4
06:00 AM - 07:00 AM	67.4	78.3	47.4
07:00 AM - 08:00 AM	57.4	79.2	48.9
08:00 AM - 09:00 AM	54.2	74.9	46.5
Leq Average 24 hrs. (dB(A))	58.9		
Lmax (dB(A))		79.7	
L90 (dB(A))			45.5
Ldn (dB(A))	66.2		
Standard (dB(A))	70	115	

Reference Method : ISO 1996-1 : 2016
Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป
2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดค่าระดับเสียงการรบกวน และระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548
Remark : The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management Chonticha
Chonticha Subongkoch
Scientist (3)

Approved by
Supot Salamteh
Section Head

Analysis / Test Report

LABORATORY ACCREDITATION
BLA-DSS
TESTING
No.0042

Client : WHA Eastern Industrial Estate Co., Ltd.
18, Pakornsongkrohraj Road, Tambol Huaypong, Amphur Muang, Rayong Thailand 21150
P/O :
Project Name : Monitoring
Project Location : WHA EIE

Lot ID: 2613379
Date Received : Mar 09, 2026
Date Reported : Mar 12, 2026
Report Number: 3525960-1

Page 1 of 1

Sample Number 2613379-18
Parameter Noise (Leq 24 hrs)
Location วัดมาบชลูด(N5) (GPS 47P 0730831, 1407365)
Measurement Date Mar 02 - Mar 03, 2026
Measurement by Nontachai Uppathamp
Sound Level meter Serial No. 1073423

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
10:00 AM - 11:00 AM	60.0	69.5	47.7
11:00 AM - 12:00 PM	55.4	71.5	45.9
12:00 PM - 01:00 PM	59.2	78.2	46.7
01:00 PM - 02:00 PM	51.8	69.0	46.4
02:00 PM - 03:00 PM	58.7	69.0	47.3
03:00 PM - 04:00 PM	52.0	76.6	45.8
04:00 PM - 05:00 PM	54.8	78.5	47.1
05:00 PM - 06:00 PM	51.0	73.8	46.5
06:00 PM - 07:00 PM	61.9	72.9	49.0
07:00 PM - 08:00 PM	51.8	67.0	48.6
08:00 PM - 09:00 PM	50.0	66.1	46.8
09:00 PM - 10:00 PM	59.3	71.3	45.0
10:00 PM - 11:00 PM	57.6	72.2	44.4
11:00 PM - 12:00 AM	50.7	81.2	44.3
12:00 AM - 01:00 AM	61.7	73.3	43.6
01:00 AM - 02:00 AM	48.5	71.5	43.5
02:00 AM - 03:00 AM	65.2	75.3	43.8
03:00 AM - 04:00 AM	47.4	78.2	42.5
04:00 AM - 05:00 AM	51.4	79.6	43.7
05:00 AM - 06:00 AM	63.2	74.5	46.0
06:00 AM - 07:00 AM	60.2	81.2	49.5
07:00 AM - 08:00 AM	53.4	75.3	48.0
08:00 AM - 09:00 AM	53.6	81.8	45.0
09:00 AM - 10:00 AM	54.0	78.0	44.8
Leq Average 24 hrs. (dB(A))	58.2		
Lmax (dB(A))		81.8	
L90 (dB(A))			45.9
Ldn (dB(A))	66.0		
Standard (dB(A))	70	115	

Reference Method : ISO 1996-1 : 2016
Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป
2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดค่าระดับเสียงการรบกวน และระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548
Remark : The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management Chontichak
Chonticha Subongkoch
Scientist (3)

Approved by Supt S
Supot Salamteh
Section Head

Analysis / Test Report

LABORATORY ACCREDITATION
BLA-DSS
TESTING
No.0042

Client : WHA Eastern Industrial Estate Co., Ltd.
18, Pakornsongkrohraj Road, Tambol Huaypong, Amphur Muang, Rayong Thailand 21150
P/O :
Project Name : Monitoring
Project Location : WHA EIE

Lot ID: 2613379
Date Received : Mar 09, 2026
Date Reported : Mar 12, 2026
Report Number: 3525959-1

Page 1 of 1

Sample Number 2613379-17
Parameter Noise (Leq 24 hrs)
Location วัดมาบชลูด(N5) (GPS 47P 0730831, 1407365)
Measurement Date Mar 01 - Mar 02, 2026
Measurement by Nontachai Uppathamp
Sound Level meter Serial No. 1073423

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
10:00 AM - 11:00 AM	51.1	75.4	44.8
11:00 AM - 12:00 PM	52.5	77.1	45.8
12:00 PM - 01:00 PM	52.7	82.7	43.2
01:00 PM - 02:00 PM	48.7	69.7	44.8
02:00 PM - 03:00 PM	50.2	73.4	44.7
03:00 PM - 04:00 PM	51.5	75.5	44.8
04:00 PM - 05:00 PM	50.1	71.9	45.0
05:00 PM - 06:00 PM	50.7	75.5	45.0
06:00 PM - 07:00 PM	59.2	81.6	48.4
07:00 PM - 08:00 PM	50.2	62.8	47.7
08:00 PM - 09:00 PM	49.2	72.5	46.0
09:00 PM - 10:00 PM	48.6	61.8	46.3
10:00 PM - 11:00 PM	50.6	81.8	45.3
11:00 PM - 12:00 AM	52.7	68.0	44.8
12:00 AM - 01:00 AM	47.0	68.6	44.2
01:00 AM - 02:00 AM	46.9	72.0	43.9
02:00 AM - 03:00 AM	54.1	66.7	43.9
03:00 AM - 04:00 AM	55.4	83.7	43.2
04:00 AM - 05:00 AM	51.5	79.9	43.7
05:00 AM - 06:00 AM	61.9	80.9	45.5
06:00 AM - 07:00 AM	61.6	73.3	49.2
07:00 AM - 08:00 AM	55.7	76.9	49.9
08:00 AM - 09:00 AM	54.0	72.6	47.0
09:00 AM - 10:00 AM	52.7	79.1	45.1
Leq Average 24 hrs. (dB(A))	54.7		
Lmax (dB(A))		83.7	
L90 (dB(A))			45.0
Ldn (dB(A))	62.7		
Standard (dB(A))	70	115	

Reference Method : ISO 1996-1 : 2016
Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป
2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดค่าระดับเสียงการรบกวน และระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548
Remark : The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management Chontichak
Chonticha Subongkoch
Scientist (3)

Approved by Supt S
Supot Salamteh
Section Head

Analysis / Test Report

TESTING
No.0042

Client : WHA Eastern Industrial Estate Co., Ltd.
18, Pakornsongkrohraj Road, Tambol Huaypong, Amphur Muang, Rayong Thailand 21150
P/O :
Project Name : Monitoring
Project Location : WHA EIE

Lot ID: 2613379
Date Received : Mar 09, 2026
Date Reported : Mar 12, 2026
Report Number: 3525962-1

Sample Number	2613379-20
Parameter	Noise (Leq 24 hrs)
Location	วัดมาบชลูด(N5) (GPS 47P 0730831, 1407365)
Measurement Date	Mar 04 - Mar 05, 2026
Measurement by	Nontachai Uppathamp
Sound Level meter	Serial No. 1073423

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
10:00 AM - 11:00 AM	56.9	75.4	47.9
11:00 AM - 12:00 PM	57.8	75.6	46.2
12:00 PM - 01:00 PM	56.1	78.8	45.4
01:00 PM - 02:00 PM	58.4	73.2	46.7
02:00 PM - 03:00 PM	59.1	73.9	47.3
03:00 PM - 04:00 PM	55.6	75.0	48.0
04:00 PM - 05:00 PM	54.8	80.7	47.3
05:00 PM - 06:00 PM	53.2	72.5	47.5
06:00 PM - 07:00 PM	61.7	74.5	49.5
07:00 PM - 08:00 PM	50.0	64.3	48.0
08:00 PM - 09:00 PM	50.1	64.8	46.8
09:00 PM - 10:00 PM	55.5	71.2	45.6
10:00 PM - 11:00 PM	52.0	66.8	45.3
11:00 PM - 12:00 AM	50.6	70.2	45.4
12:00 AM - 01:00 AM	55.6	67.9	44.9
01:00 AM - 02:00 AM	46.8	66.7	44.2
02:00 AM - 03:00 AM	45.9	71.6	43.4
03:00 AM - 04:00 AM	49.9	77.6	42.8
04:00 AM - 05:00 AM	49.0	67.8	43.6
05:00 AM - 06:00 AM	61.5	72.6	44.9
06:00 AM - 07:00 AM	59.0	74.3	49.2
07:00 AM - 08:00 AM	56.7	73.0	50.1
08:00 AM - 09:00 AM	55.8	76.5	47.1
09:00 AM - 10:00 AM	56.4	87.5	44.9
Leq Average 24 hrs. (dB(A))	56.3		
Lmax (dB(A))		87.5	
L90 (dB(A))			46.2
Ldn (dB(A))	62.0		
Standard (dB(A))	70	115	

Reference Method : ISO 1996-1 : 2016
Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป
2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดค่าระดับเสียงการรบกวน และระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548
Remark : The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management Chontichak
Chonticha Subongkoch
Scientist (3)

Approved by Supt S
Supot Salamteh
Section Head

Analysis / Test Report

TESTING
No.0042

Client : WHA Eastern Industrial Estate Co., Ltd.
18, Pakornsongkrohraj Road, Tambol Huaypong, Amphur Muang, Rayong Thailand 21150
P/O :
Project Name : Monitoring
Project Location : WHA EIE

Lot ID: 2613379
Date Received : Mar 09, 2026
Date Reported : Mar 12, 2026
Report Number: 3525961-1

Sample Number	2613379-19
Parameter	Noise (Leq 24 hrs)
Location	วัดมาบชลูด(N5) (GPS 47P 0730831, 1407365)
Measurement Date	Mar 03 - Mar 04, 2026
Measurement by	Nontachai Uppathamp
Sound Level meter	Serial No. 1073423

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
10:00 AM - 11:00 AM	54.9	77.7	44.3
11:00 AM - 12:00 PM	52.5	79.6	45.1
12:00 PM - 01:00 PM	53.6	76.5	47.3
01:00 PM - 02:00 PM	56.8	78.6	49.2
02:00 PM - 03:00 PM	56.5	70.1	49.9
03:00 PM - 04:00 PM	54.9	78.4	45.5
04:00 PM - 05:00 PM	50.5	75.7	44.2
05:00 PM - 06:00 PM	51.6	76.8	44.9
06:00 PM - 07:00 PM	60.0	79.1	47.4
07:00 PM - 08:00 PM	53.2	66.4	50.1
08:00 PM - 09:00 PM	50.9	65.1	47.6
09:00 PM - 10:00 PM	49.5	70.0	46.1
10:00 PM - 11:00 PM	49.5	61.0	45.9
11:00 PM - 12:00 AM	48.1	67.5	43.8
12:00 AM - 01:00 AM	51.4	69.0	43.8
01:00 AM - 02:00 AM	46.8	63.0	43.2
02:00 AM - 03:00 AM	50.1	77.6	43.0
03:00 AM - 04:00 AM	48.7	69.5	43.8
04:00 AM - 05:00 AM	47.6	66.4	42.9
05:00 AM - 06:00 AM	61.3	80.6	46.3
06:00 AM - 07:00 AM	59.5	82.5	50.4
07:00 AM - 08:00 AM	57.6	74.5	49.2
08:00 AM - 09:00 AM	57.9	72.4	46.5
09:00 AM - 10:00 AM	57.2	73.3	44.0
Leq Average 24 hrs. (dB(A))	55.3		
Lmax (dB(A))		82.5	
L90 (dB(A))			45.5
Ldn (dB(A))	61.4		
Standard (dB(A))	70	115	

Reference Method : ISO 1996-1 : 2016
Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป
2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดค่าระดับเสียงการรบกวน และระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548
Remark : The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management Chontichak
Chonticha Subongkoch
Scientist (3)

Approved by Supt S
Supot Salamteh
Section Head

ภาคผนวก ค-8

กากตะกอนจากระบบบำบัดน้ำเสียและระบบผลิตน้ำประปา

Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
18, Pakornsongkrohraj Road, Tambol Huaypong, Amphur Muang, Rayong Thailand 21150
P/O :
Project Name :
Project Location: WHA EIE

Lot ID: 2651620
Date Received : Jun 16, 2026
Date Reported : Jun 24, 2026
Report Number : 3604923-1

Sample Number	2651620-2
Sampled Date	Jun 16, 2026 1:33 PM
Sample Description	Sludge
Location	WHA EIE : ตะกอนจากระบบผลิตน้ำประปา (WTP)
Date Analysis Commenced	Jun 18, 2026
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							
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	3.65	<2500	United States Environmental Protection Agency, EPA Method 3050 B and 6010 D	Bangkok
Hexavalent Chromium	mg/kg	-	1.00	<1.00	<500	United States Environmental Protection Agency, EPA Method 3060 A and 7196 A	Bangkok
Lead	mg/kg	-	1.00	1.35	<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	2.96	<2000	United States Environmental Protection Agency, EPA Method 3050 B and 6010 D	Bangkok
Selenium	mg/kg	-	0.50	0.89	<100	United States Environmental Protection Agency, EPA Method 3050 B and 6010 D	Bangkok
Zinc	mg/kg	-	1.00	11.9	<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 : Thanasoun Namakunna ทะเบียนเลขที่ ว-204-จ-0101

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

Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
18, Pakornsongkrohraj Road, Tambol Huaypong, Amphur Muang, Rayong Thailand 21150
P/O :
Project Name :
Project Location: WHA EIE

Lot ID: 2651620
Date Received : Jun 16, 2026
Date Reported : Jun 24, 2026
Report Number : 3604923-2

Sample Number	2651620-2
Sampled Date	Jun 16, 2026 1:33 PM
Sample Description	Sludge
Location	WHA EIE : ตะกอนจากระบบผลิตน้ำประปา (WTP)
Date Analysis Commenced	Jun 18, 2026
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
Physical Parameters							
Moisture	%	-	0.1	86.8	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
Total Concentration Test (TTLC) : Metals							
Iron	mg/kg	-	1.00	814	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 : Thanasoun Namakunna

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

Approved by Sawitree N.

Sawitree Noisangiam
Manager

Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
18, Pakornsongkrohraj Road, Tambol Huaypong, Amphur Muang, Rayong Thailand 21150
P/O :
Project Name :
Project Location: WHA EIE

Lot ID: 2652054
Date Received : Jun 26, 2026
Date Reported : Jul 04, 2026
Report Number : 3597889-1

Page 1 of 1

Sample Number	2652054-1
Sampled Date	Jun 26, 2026 11:30 AM
Sample Description	Sludge
Location	WHA EIE : ตะกอนจากระบบบำบัดน้ำเสียส่วนกลาง (WWTP)
Date Analysis Commenced	Jun 29, 2026
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							
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	23.8	<2500	United States Environmental Protection Agency, EPA Method 3050 B and 6010 D	Bangkok
Hexavalent Chromium	mg/kg	-	1.00	<1.00	<500	United States Environmental Protection Agency, EPA Method 3060 A and 7196 A	Bangkok
Iron	mg/kg	-	1.00	10029	No Standard	United States Environmental Protection Agency, EPA Method 3050 B and 6010 D	Bangkok
Lead	mg/kg	-	1.00	3.90	<1000	United States Environmental Protection Agency, EPA Method 3050 B and 6010 D	Bangkok
Mercury	mg/kg	-	0.10	0.29	<20	United States Environmental Protection Agency, EPA Method 7473	Bangkok
Nickel	mg/kg	-	1.00	33.9	<2000	United States Environmental Protection Agency, EPA Method 3050 B and 6010 D	Bangkok
Selenium	mg/kg	-	0.50	0.89	<100	United States Environmental Protection Agency, EPA Method 3050 B and 6010 D	Bangkok
Zinc	mg/kg	-	1.00	1223	<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 : Thanasoun Namakunna ทะเบียนเลขที่ ว-204-จ-0101

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

Technical Management

Chanatt L.

Chanattagarn Imchom
Section Head
ทะเบียนเลขที่ ว-204-จ-0008

Approved by

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

Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
18, Pakornsongkrohraj Road, Tambol Huaypong, Amphur Muang, Rayong Thailand 21150
P/O :
Project Name :
Project Location: WHA EIE

Lot ID: 2652054
Date Received : Jun 26, 2026
Date Reported : Jul 03, 2026
Report Number : 3597889-2

Sample Number	2652054-1
Sampled Date	Jun 26, 2026 11:30 AM
Sample Description	Sludge
Location	WHA EIE : ตะกอนจากระบบบำบัดน้ำเสียส่วนกลาง (WWTP)
Date Analysis Commenced	Jun 29, 2026
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
Physical Parameters							
Moisture	%	-	0.1	87.9	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

Guideline : Notification of the Ministry of Industry regarding Waste or Used Material Disposal, B.E. 2566 (2023).

Sampling By : Thanasoun Namakunna

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

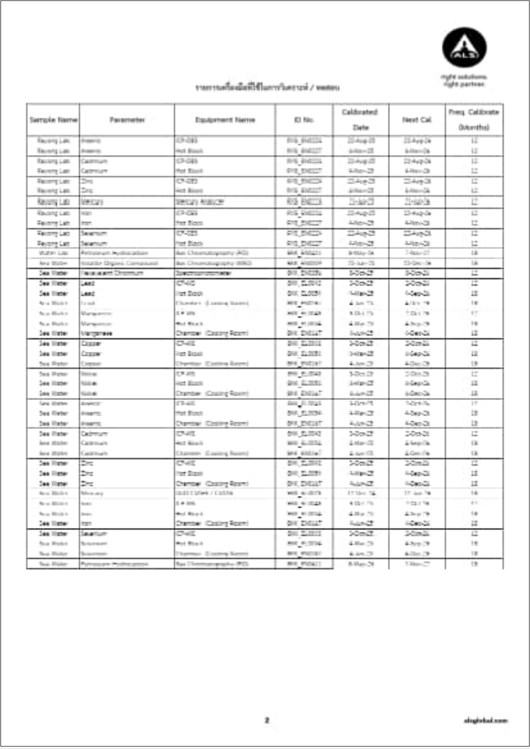
Approved by Siriluk P.

Siriluk Bunnak
Section Head

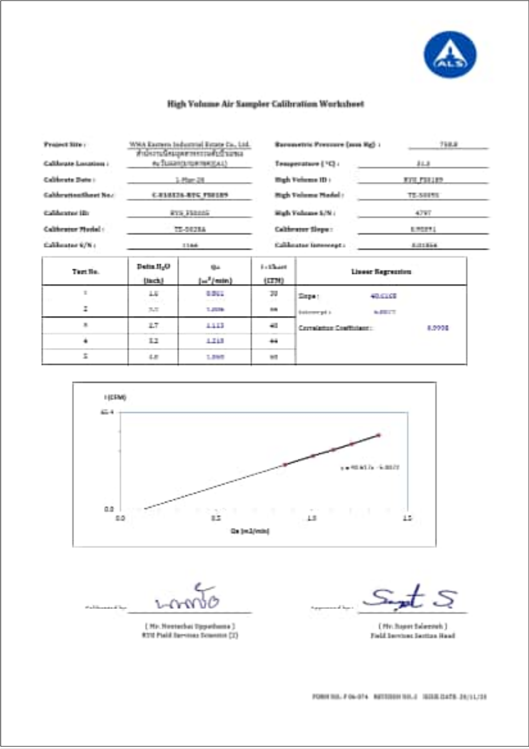
ภาคผนวก ง

เอกสารสอบเทียบเครื่องมือที่ใช้ในการวิเคราะห์

Sample Name	Parameter	Equipment Name	ID No.	Calibrated Date	Next Cal	Freq. Calibrate (Months)



Sample Name	Parameter	Equipment Name	ID No.	Calibrated Date	Next Cal	Freq. Calibrate (Months)

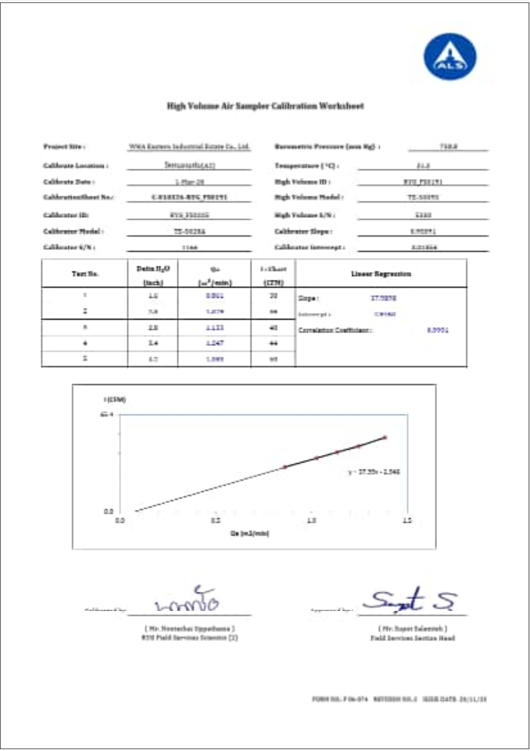


High Volume Air Sampler Calibration Worksheet

Project Site : WHA Eastern Industrial Estate Co., Ltd.

Barometric Pressure (mm Hg) : 758.8

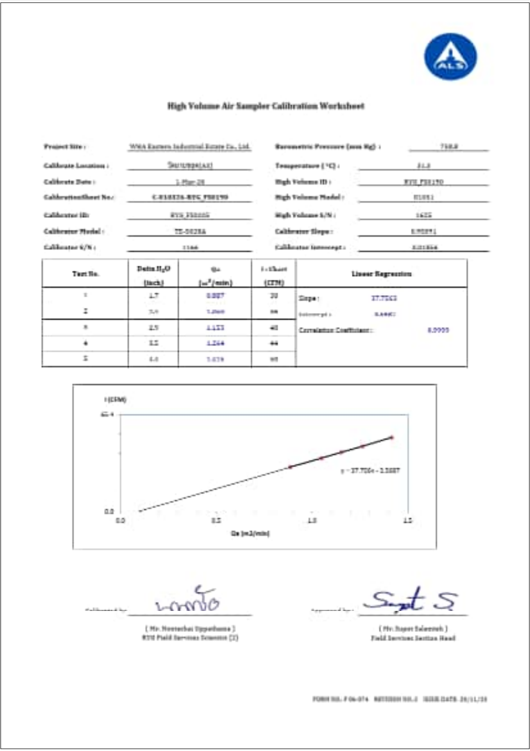
Test No.	Delta H_2O (inch)	Qa (m^3/min)	I : Chart (CFM)	Linear Regression



High Volume Air Sampler Calibration Worksheet

Project Site : WHA Eastern Industrial Estate Co., Ltd.

Test No.	Delta H_2O (inch)	Qa (m^3/min)	I : Chart (CFM)	Linear Regression



High Volume Air Sampler Calibration Worksheet

Project Site : WHA Eastern Industrial Estate Co., Ltd.

Test No.	Delta H_2O (inch)	Qa (m^3/min)	I : Chart (CFM)	Linear Regression

Accredited by

NSC-TISI-TIS 17025

Calibration 0426

Calibration certificate

Calibration Certificate No. 26BCI0067

Object	Electronic non automatic weighing instrument
Manufacturer	Sartorius
Type	LA130S-F
Serial | QM Ident. no.	25409664 | RYG_EN0001
Customer	ALS Laboratory Group (Thailand) Co.,Ltd. (Rayong Branch) 616/10 Moo 5 T.Maenamkoo, A.Pluak Daeng, Rayong 21140, Thailand
Order no	278579
Number of pages	4
Date of calibration	03 Feb 2026

REVIEW BY Thanitak.

APPROVED BY

NEXT CAL DATE 03/02/27

This calibration certificate may not be reproduced other than in full except with the permission of NSC-TISI-TIS-17025 and the issuing laboratory. Calibration certificates without signature are not valid.

The user is obliged to have the object recalibrated at appropriate intervals.

Date of issue 03 Feb 2026

Approval of the Calibration Certificate

Mr. Chonchai Inthana

Person in charge

Chonchai Inthana

Calibration object

Single range instrument

Model	LA130S-F
Serial Number	25409664
QM Ident. no | Inventory no	RYG_EN0001 | —
Maximum capacity (Max. load)	150.0000 g
Measured up to	150.0000 g
Scale interval	0.0001 g

Place of calibration

Address	According to page 1
Department | Cost center	Laboratory Department | —
Building | Floor	— | 1st Floor
Room	Balance Room
Maximum temperature variation at place of calibration	5 K

Calibration procedure

EURAMET Calibration Guide No. 18, Version 4.0 (11/2015) - Guidelines on the Calibration of Non-Automatic Weighing Instruments

Test equipment

Test equipment type	Test equipment ID	Valid until
Thermometer	Testo 174H H/T250743 (Traceable to SI unit through FNTECH)	18 Nov 2026
Test weight set OIML R111 E2	Certificate No.M25081495 .E2(Traceable to SI unit through TCS)	19 Aug 2027

Adjustment Status

The measuring device was internally adjusted before the calibration.

Environmental and measuring conditions

Date of calibration	03 Feb 2026
Temperature at place of calibration | Temp. diff. $T_{weights} - T_{place}$	24.5 °C | 0.5 K
Measuring conditions	The installation site is suitable. The device is level. Balance was loaded up to Max before test
Comments	Humidity 52.0 %RH

Measurement results | Measurement uncertainties

Repeatability

Test load (nominal): 10 g | 100 g

	10 g	100 g
1	10.0000 g	100.0000 g
2	10.0000 g	99.9999 g
3	9.9999 g	100.0000 g
4	10.0001 g	100.0000 g
5	10.0000 g	99.9999 g
6	9.9999 g	100.0000 g
7	9.9999 g	99.9999 g
8	9.9999 g	100.0000 g
9	9.9999 g	100.0000 g
10	9.9999 g	99.9999 g
	s = 0.00007 g	s = 0.00007 g

Eccentricity

Test load (nominal):	50 g
Center	50.0000 g
Front left	50.0001 g
Back left	50.0001 g
Back right	50.0000 g
Front right	50.0001 g

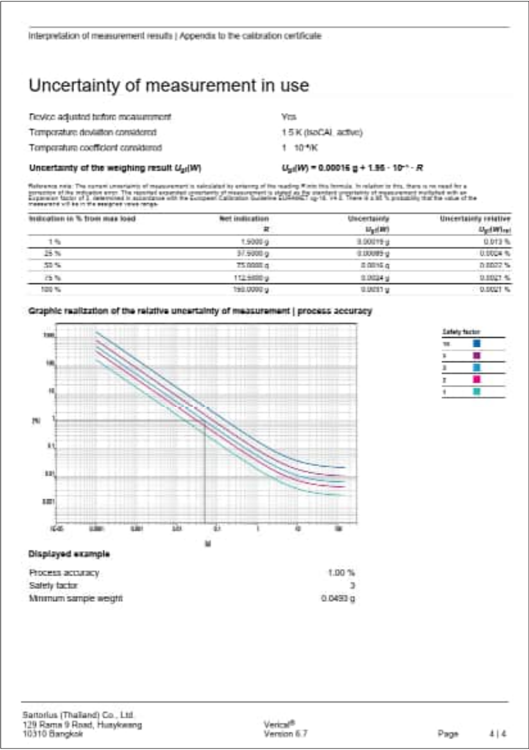
Maximum deviation from centric loading indication
|ΔEcc| max = 0.0001 g

Error of indication

Testload L	Indication I	Error E	Expansion factor k	Uncertainty U(E)	Uncertainty relative $U_{rel}(E)$
0.0100 g	0.0100 g	0.0000 g	2.00	0.00019 g	1.9 %
0.0500 g	0.0500 g	0.0000 g	2.00	0.00016 g	0.33 %
0.1000 g	0.1000 g	0.0000 g	2.00	0.00018 g	0.18 %
0.5000 g	0.5000 g	0.0000 g	2.00	0.00018 g	0.035 %
1.0000 g	1.0000 g	0.0000 g	2.00	0.00016 g	0.016 %
2.0000 g	2.0000 g	0.0000 g	2.00	0.00017 g	0.0085 %
5.0000 g	5.0001 g	0.0001 g	2.00	0.00017 g	0.0033 %
10.0000 g	10.0001 g	0.0001 g	2.00	0.00017 g	0.0017 %
20.0000 g	20.0000 g	0.0000 g	2.00	0.00017 g	0.00086 %
100.0000 g	100.0001 g	0.0001 g	2.00	0.00023 g	0.00023 %
150.0000 g	150.0001 g	0.0001 g	2.00	0.00030 g	0.00020 %

Maximum error of indication: |E|max = 0.0001 g

End of calibration certificate



Uncertainty of measurement in use

Device adjusted before measurement	Yes
Temperature deviation considered	1.5 K (isoCAL active)
Temperature coefficient considered	1 · 10⁻⁶/K
Uncertainty of the weighing result $U_{gl}(W)$	**$U_{gl}(W) = 0.00016\ g + 1.96 \cdot 10^{-5} \cdot R$**

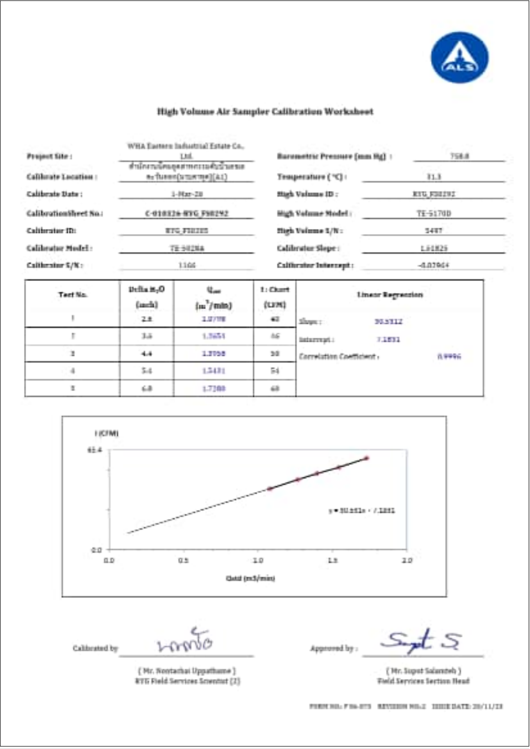
Indication in % from max load	Net indication R	Uncertainty $U_{gl}(W)$	Uncertainty relative $U_{gl}(W)_{rel}$
1 %	1.5000 g	0.00019 g	0.013 %
25 %	37.5000 g	0.00089 g	0.0024 %
50 %	75.0000 g	0.0016 g	0.0022 %
75 %	112.5000 g	0.0024 g	0.0021 %
100 %	150.0000 g	0.0031 g	0.0021 %

Graphic realization of the relative uncertainty of measurement | process accuracy

Safety factor

Displayed example

Process accuracy	1.00 %
Safety factor	3
Minimum sample weight	0.0493 g



High Volume Air Sampler Calibration Worksheet

Project Site :	WHA Eastern Industrial Estate Co., Ltd.	Barometric Pressure (mm Hg) :	758.8
Calibrate Location :	สำนักงานนิคมอุตสาหกรรมดับบลิวเอชเอตะวันออก(มาบตาพุด)(A1)	Temperature (°C) :	31.3
Calibrate Date :	1-Mar-26	High Volume ID :	RYG_FS0292
CalibrationSheet No.:	C-010326-RYG_FS0292	High Volume Model :	TE-5170D
Calibrator ID:	RYG_FS0285	High Volume S/N :	5497
Calibrator Model :	TE-5028A	Calibrator Slope :	1.01825
Calibrator S/N :	1166	Calibrator Intercept :	-0.02964

Test No.	Delta H_2O (inch)	Q_{std} (m^3/min)	I : Chart (CFM)	Linear Regression
1	2.8	1.0798	40	Slope : 30.5312
2	3.6	1.1654	46	Intercept : 7.1851
3	4.4	1.2958	50	Correlation Coefficient : 0.9996
4	5.4	1.3431	54	
5	6.8	1.7288	60	

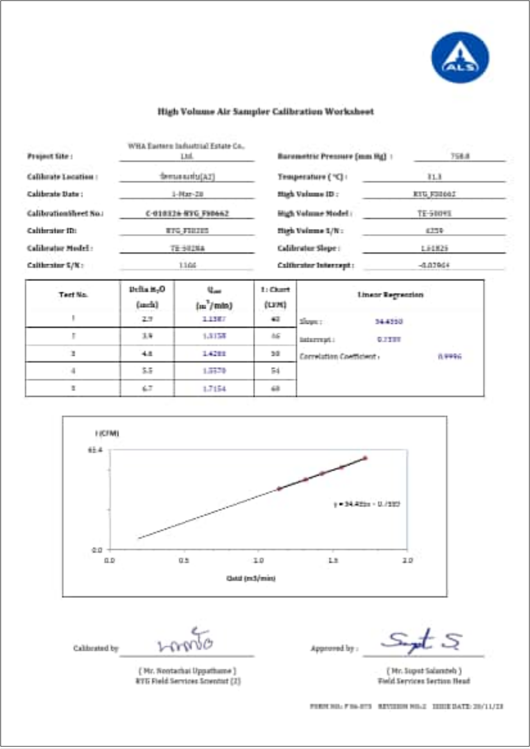
Calibrated by

(Mr. Nontachai Uppathame)
RYG Field Services Scientist (2)

Approved by :

(Mr. Supot Salamteh)
Field Services Section Head

FORM NO.: F 06-073 REVISION NO.2 ISSUE DATE: 20/11/23



High Volume Air Sampler Calibration Worksheet

Project Site :	WHA Eastern Industrial Estate Co., Ltd.	Barometric Pressure (mm Hg) :	758.8
Calibrate Location :	[illegible](A2)	Temperature (°C) :	31.3
Calibrate Date :	1-Mar-26	High Volume ID :	RYG_FS0662
CalibrationSheet No.:	C-010326-RYG_FS0662	High Volume Model :	TE-5000X
Calibrator ID:	RYG_FS0285	High Volume S/N :	4259
Calibrator Model :	TE-5028A	Calibrator Slope :	1.01825
Calibrator S/N :	1166	Calibrator Intercept :	-0.02964

Test No.	Delta H_2O (inch)	Q_{std} (m^3/min)	I : Chart (CFM)	Linear Regression
1	2.9	1.1387	40	Slope : 34.4550
2	3.9	1.3158	46	Intercept : 0.7337
3	4.8	1.4288	50	Correlation Coefficient : 0.9996
4	5.5	1.5570	54	
5	6.7	1.7154	60	

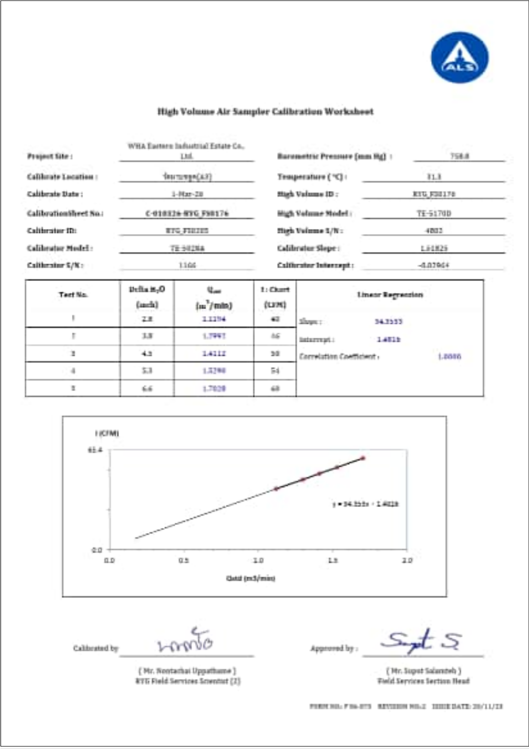
Calibrated by

(Mr. Nontachai Uppathame)
RYG Field Services Scientist (2)

Approved by :

(Mr. Supot Salamteh)
Field Services Section Head

FORM NO.: F 06-073 REVISION NO.2 ISSUE DATE: 20/11/23



High Volume Air Sampler Calibration Worksheet

Project Site :	WHA Eastern Industrial Estate Co., Ltd.	Barometric Pressure (mm Hg) :	758.8
Calibrate Location :	[illegible](A3)	Temperature (°C) :	31.3
Calibrate Date :	1-Mar-26	High Volume ID :	RYG_FS0176
CalibrationSheet No.:	C-010326-RYG_FS0176	High Volume Model :	TE-5170D
Calibrator ID:	RYG_FS0285	High Volume S/N :	4802
Calibrator Model :	TE-5028A	Calibrator Slope :	1.01825
Calibrator S/N :	1166	Calibrator Intercept :	-0.02964

Test No.	Delta H_2O (inch)	Q_{std} (m^3/min)	I : Chart (CFM)	Linear Regression
1	2.8	1.1194	40	Slope : 34.3553
2	3.8	1.2997	46	Intercept : 1.4816
3	4.5	1.4112	50	Correlation Coefficient : 1.0000
4	5.3	1.5290	54	
5	6.6	1.7028	60	

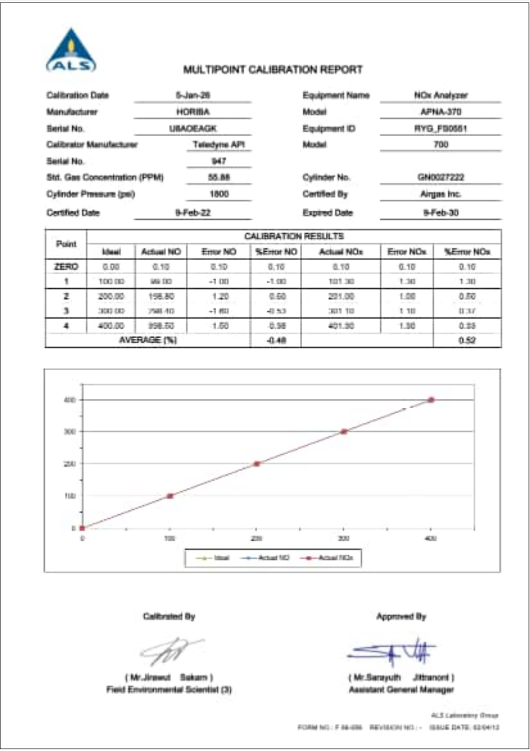
Calibrated by

(Mr. Nontachai Uppathame)
RYG Field Services Scientist (2)

Approved by :

(Mr. Supot Salamteh)
Field Services Section Head

FORM NO.: F 06-073 REVISION NO.2 ISSUE DATE: 20/11/23



MULTIPOINT CALIBRATION REPORT

Calibration Date	5-Jan-26	Equipment Name	NOx Analyzer
Manufacturer	HORIBA	Model	APNA-370
Serial No.	UBAOEAGK	Equipment ID	RYG_FS0551
Calibrator Manufacturer	Teledyne API	Model	700
Serial No.	947		
Std. Gas Concentration (PPM)	55.88	Cylinder No.	GN0027222
Cylinder Pressure (psi)	1800	Certified By	Airgas Inc.
Certified Date	9-Feb-22	Expired Date	9-Feb-30

Point	CALIBRATION RESULTS						
	Ideal	Actual NO	Error NO	%Error NO	Actual NOx	Error NOx	%Error NOx
ZERO	0.00	0.10	0.10	0.10	0.10	0.10	0.10
1	100.00	99.00	-1.00	-1.00	101.30	1.30	1.30
2	200.00	198.80	1.20	0.60	201.00	1.00	0.50
3	300.00	298.40	-1.60	-0.53	301.10	1.10	0.37
4	400.00	398.50	-1.50	-0.38	401.30	1.30	0.33
AVERAGE (%)				-0.48			0.52

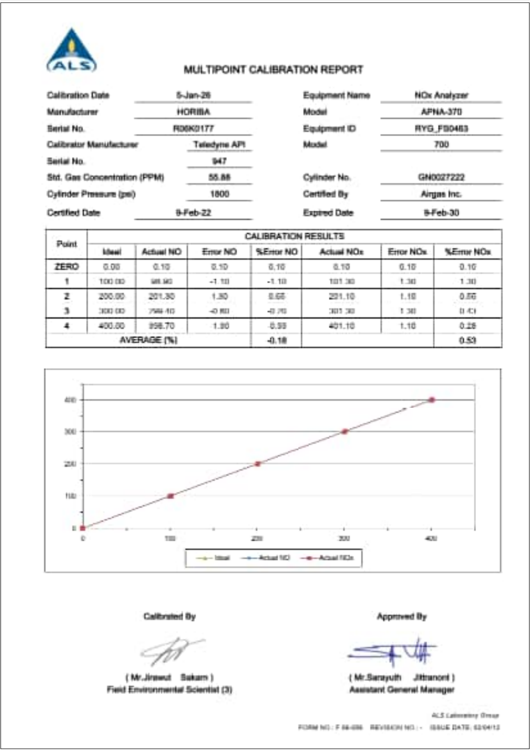
Calibrated By

(Mr.Jirawut Sakam)
Field Environmental Scientist (3)

Approved By

(Mr.Sarayuth Jittranont)
Assistant General Manager

ALS Laboratory Group
FORM NO.: F 06-056 REVISION NO.: - ISSUE DATE: 02/04/12



MULTIPOINT CALIBRATION REPORT

Calibration Date	5-Jan-26	Equipment Name	NOx Analyzer
Manufacturer	HORIBA	Model	APNA-370
Serial No.	R06K0177	Equipment ID	RYG_FS0483
Calibrator Manufacturer	Teledyne API	Model	700
Serial No.	947		
Std. Gas Concentration (PPM)	55.88	Cylinder No.	GN0027222
Cylinder Pressure (psi)	1800	Certified By	Airgas Inc.
Certified Date	9-Feb-22	Expired Date	9-Feb-30

Point	CALIBRATION RESULTS						
	Ideal	Actual NO	Error NO	%Error NO	Actual NOx	Error NOx	%Error NOx
ZERO	0.00	0.10	0.10	0.10	0.10	0.10	0.10
1	100.00	98.90	-1.10	-1.10	101.30	1.30	1.30
2	200.00	201.30	1.30	0.65	201.10	1.10	0.55
3	300.00	299.40	-0.60	-0.20	301.30	1.30	0.43
4	400.00	398.70	-1.30	-0.33	401.10	1.10	0.28
AVERAGE (%)				-0.18			0.53

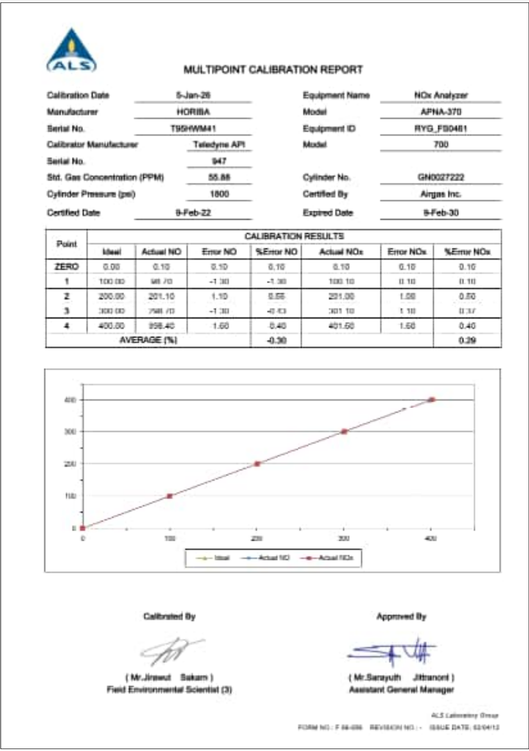
Calibrated By

(Mr.Jirawut Sakam)
Field Environmental Scientist (3)

Approved By

(Mr.Sarayuth Jittranont)
Assistant General Manager

ALS Laboratory Group
FORM NO.: F 06-056 REVISION NO.: - ISSUE DATE: 02/04/12



MULTIPOINT CALIBRATION REPORT

Calibration Date	5-Jan-26	Equipment Name	NOx Analyzer
Manufacturer	HORIBA	Model	APNA-370
Serial No.	T95HWM41	Equipment ID	RYG_FS0481
Calibrator Manufacturer	Teledyne API	Model	700
Serial No.	947		
Std. Gas Concentration (PPM)	55.88	Cylinder No.	GN0027222
Cylinder Pressure (psi)	1800	Certified By	Airgas Inc.
Certified Date	9-Feb-22	Expired Date	9-Feb-30

Point	CALIBRATION RESULTS						
	Ideal	Actual NO	Error NO	%Error NO	Actual NOx	Error NOx	%Error NOx
ZERO	0.00	0.10	0.10	0.10	0.10	0.10	0.10
1	100.00	98.70	-1.30	-1.30	100.10	0.10	0.10
2	200.00	201.10	1.10	0.55	201.00	1.00	0.50
3	300.00	298.70	-1.30	-0.43	301.10	1.10	0.37
4	400.00	398.40	-1.60	-0.40	401.60	1.60	0.40
AVERAGE (%)				-0.30			0.29

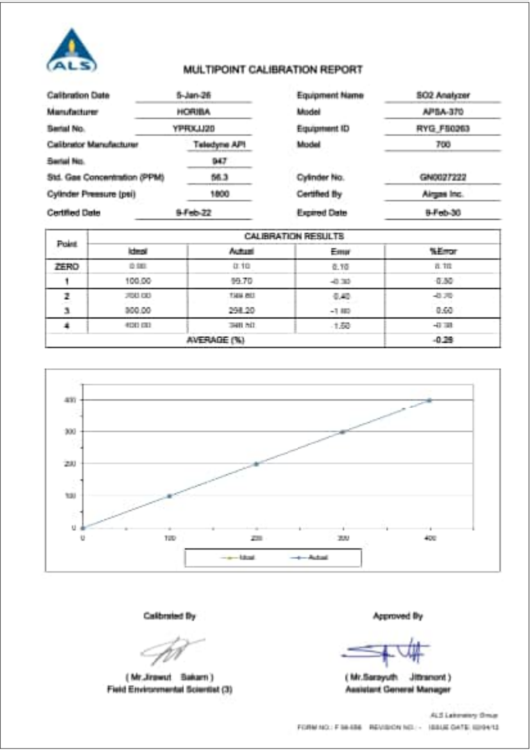
Calibrated By

(Mr.Jirawut Sakam)
Field Environmental Scientist (3)

Approved By

(Mr.Sarayuth Jittranont)
Assistant General Manager

ALS Laboratory Group
FORM NO.: F 06-056 REVISION NO.: - ISSUE DATE: 02/04/12



MULTIPOINT CALIBRATION REPORT

Calibration Date	5-Jan-26	Equipment Name	SO2 Analyzer
Manufacturer	HORIBA	Model	APSA-370
Serial No.	YPRXJJ20	Equipment ID	RYG_FS0263
Calibrator Manufacturer	Teledyne API	Model	700
Serial No.	947		
Std. Gas Concentration (PPM)	56.3	Cylinder No.	GN0027222
Cylinder Pressure (psi)	1800	Certified By	Airgas Inc.
Certified Date	9-Feb-22	Expired Date	9-Feb-30

Point	CALIBRATION RESULTS			
	Ideal	Actual	Error	%Error
ZERO	0.00	0.10	0.10	0.10
1	100.00	99.70	-0.30	-0.30
2	200.00	198.60	-1.40	-0.70
3	300.00	298.20	-1.80	-0.60
4	400.00	398.50	-1.50	-0.38
AVERAGE (%)				-0.28

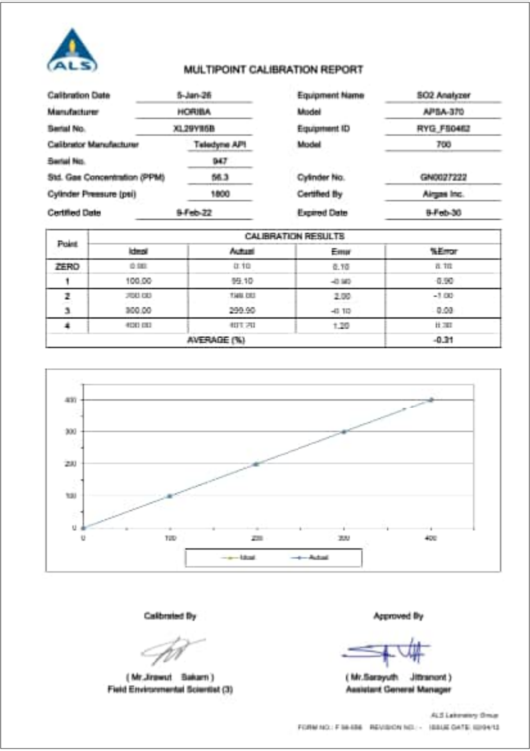
Calibrated By

(Mr.Jirawut Sakam)
Field Environmental Scientist (3)

Approved By

(Mr.Sarayuth Jittranont)
Assistant General Manager

ALS Laboratory Group
FORM NO.: F 06-056 REVISION NO.: - ISSUE DATE: 02/04/12



MULTIPOINT CALIBRATION REPORT

Calibration Date	5-Jan-26	Equipment Name	SO2 Analyzer
Manufacturer	HORIBA	Model	APSA-370
Serial No.	XL29Y86B	Equipment ID	RYG_FS0462
Calibrator Manufacturer	Teledyne API	Model	700
Serial No.	947		
Std. Gas Concentration (PPM)	56.3	Cylinder No.	GN0027222
Cylinder Pressure (psi)	1800	Certified By	Airgas Inc.
Certified Date	9-Feb-22	Expired Date	9-Feb-30

Point	CALIBRATION RESULTS			
	Ideal	Actual	Error	%Error
ZERO	0.00	0.10	0.10	0.10
1	100.00	99.10	-0.90	-0.90
2	200.00	198.00	-2.00	-1.00
3	300.00	299.90	-0.10	-0.03
4	400.00	401.20	1.20	0.30
AVERAGE (%)				-0.31

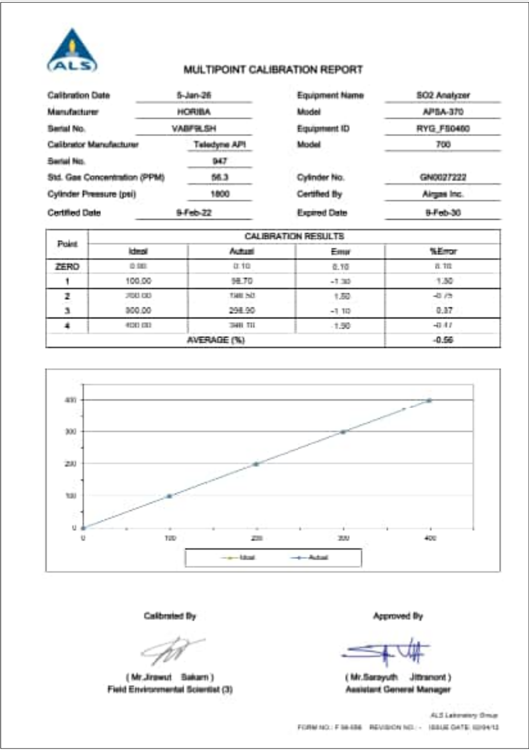
Calibrated By

(Mr.Jirawut Sakam)
Field Environmental Scientist (3)

Approved By

(Mr.Sarayuth Jittranont)
Assistant General Manager

ALS Laboratory Group
FORM NO.: F 06-056 REVISION NO.: - ISSUE DATE: 02/04/12



MULTIPOINT CALIBRATION REPORT

Calibration Date	5-Jan-26	Equipment Name	SO2 Analyzer
Manufacturer	HORIBA	Model	APSA-370
Serial No.	VABF9LSH	Equipment ID	RYG_FS0460
Calibrator Manufacturer	Teledyne API	Model	700
Serial No.	947		
Std. Gas Concentration (PPM)	56.3	Cylinder No.	GN0027222
Cylinder Pressure (psi)	1800	Certified By	Airgas Inc.
Certified Date	9-Feb-22	Expired Date	9-Feb-30

Point	CALIBRATION RESULTS			
	Ideal	Actual	Error	%Error
ZERO	0.00	0.10	0.10	0.10
1	100.00	98.70	-1.30	-1.30
2	200.00	198.50	-1.50	-0.75
3	300.00	298.90	-1.10	-0.37
4	400.00	398.10	-1.90	-0.47
AVERAGE (%)				-0.56

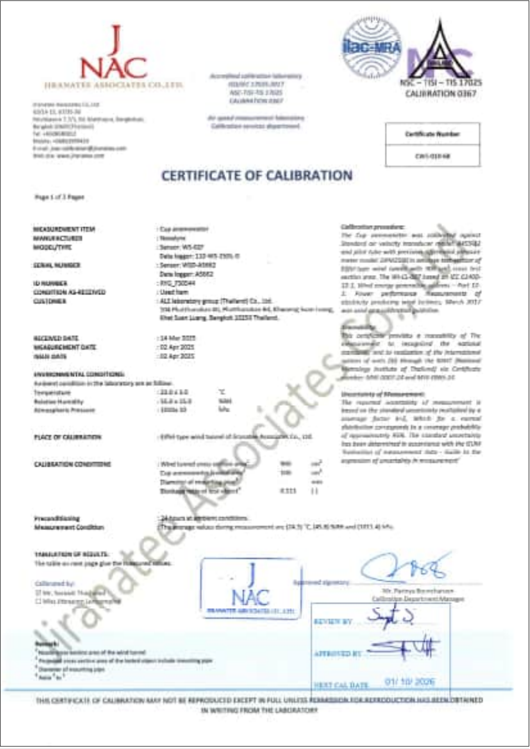
Calibrated By

(Mr.Jirawut Sakam)
Field Environmental Scientist (3)

Approved By

(Mr.Sarayuth Jittranont)
Assistant General Manager

ALS Laboratory Group
FORM NO.: F 06-056 REVISION NO.: - ISSUE DATE: 02/04/12



JNAC
JIRANATEE ASSOCIATES CO.,LTD.

NSC – TISI – TIS 17025
CALIBRATION 0367

Certificate Number

CERTIFICATE OF CALIBRATION

MEASUREMENT ITEM : Cup anemometer
MANUFACTURER : Novalynx
MODEL/TYPE : Sensor: WS-027
Data logger: 110-WS-25DL-II
SERIAL NUMBER : Sensor: WSD-A5662
Data logger: A5662
ID NUMBER : RYG_F50544
CONDITION AS-RECEIVED : Used Item
CUSTOMER : ALS laboratory group (Thailand) Co., Ltd.

RECEIVED DATE : 14 Mar 2025
MEASUREMENT DATE : 02 Apr 2025
ISSUE DATE : 02 Apr 2025

ENVIRONMENTAL CONDITIONS:

PLACE OF CALIBRATION

CALIBRATION CONDITIONS

Preconditioning : 24 hours at ambient conditions.
Measurement Condition

TABULATION OF RESULTS:
The table on next page give the measured values.

REVIEW BY
APPROVED BY
NEXT CAL DATE 01/ 10/ 2026

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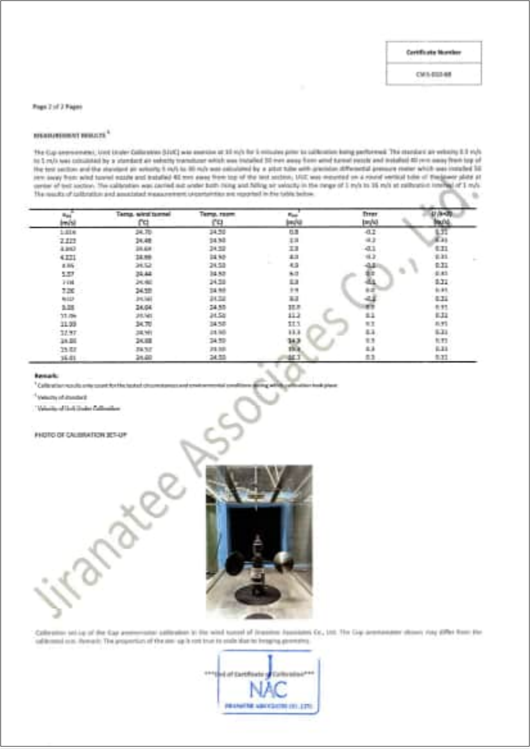

Certificate Number

MEASUREMENT RESULTS

Remark:

PHOTO OF CALIBRATION SET-UP

End of Certificate of Calibration

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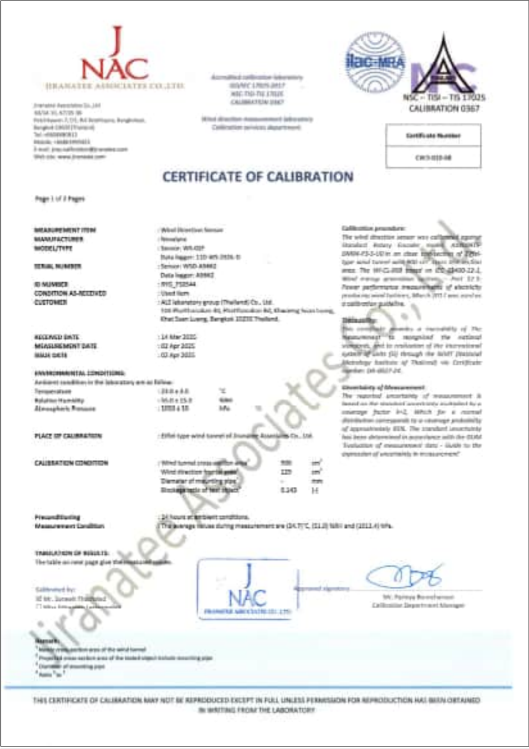

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JIRANATEE ASSOCIATES CO.,LTD.

NSC – TISI – TIS 17025
CALIBRATION 0367

Certificate Number

CERTIFICATE OF CALIBRATION

MEASUREMENT ITEM : Wind Direction Sensor
MANUFACTURER : Novalynx

RECEIVED DATE : 14 Mar 2025
MEASUREMENT DATE : 02 Apr 2025
ISSUE DATE : 02 Apr 2025

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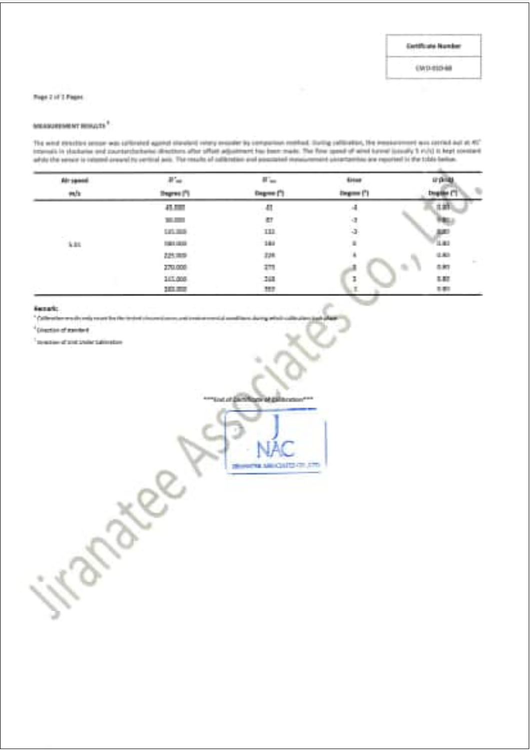

Certificate Number

MEASUREMENT RESULTS

Remark:

End of Certificate of Calibration

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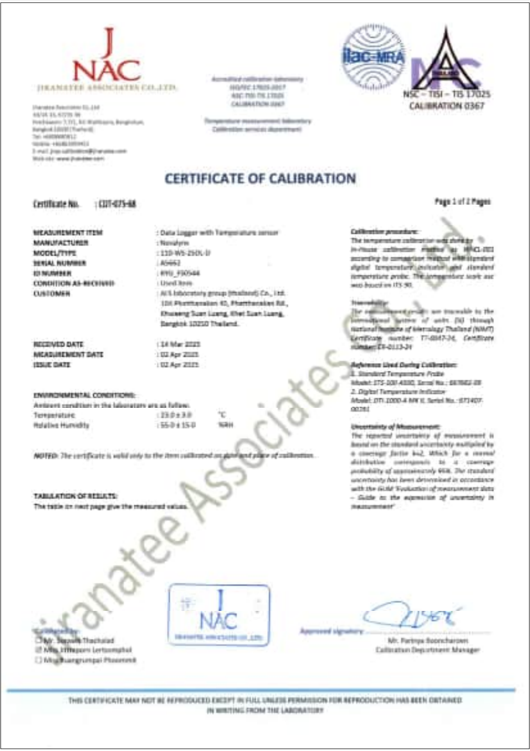

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NSC – TISI – TIS 17025
CALIBRATION 0367

CERTIFICATE OF CALIBRATION

Certificate No. : CDT-075-68

Page 1 of 2 Pages

MEASUREMENT ITEM : Data Logger with Temperature sensor
MANUFACTURER : Novalynx
MODEL/TYPE : 110-WS-25DL-II
SERIAL NUMBER : A5662
ID NUMBER : RYG_F50544
CONDITION AS-RECEIVED : Used Item
CUSTOMER : ALS laboratory group (Thailand) Co., Ltd.
104 Phatthanakan 40, Phatthanakan Rd.,
Khuaeng Suan Luang, Khet Suan Luang,
Bangkok 10250 Thailand.

RECEIVED DATE : 14 Mar 2025
MEASUREMENT DATE : 02 Apr 2025
ISSUE DATE : 02 Apr 2025

ENVIRONMENTAL CONDITIONS:
Ambient condition in the laboratory are as follow:
Temperature : 23.0 ± 3.0 °C
Relative Humidity : 55.0 ± 15.0 %RH

NOTED: The certificate is valid only to the item calibrated on date and place of calibration.

TABULATION OF RESULTS:
The table on next page give the measured values.

Calibration procedure:

Traceability:

Reference Used During Calibration:

Uncertainty of Measurement:

Calibrated by:

Approved signatory

Mr. Parinya Booncharoen
Calibration Department Manager

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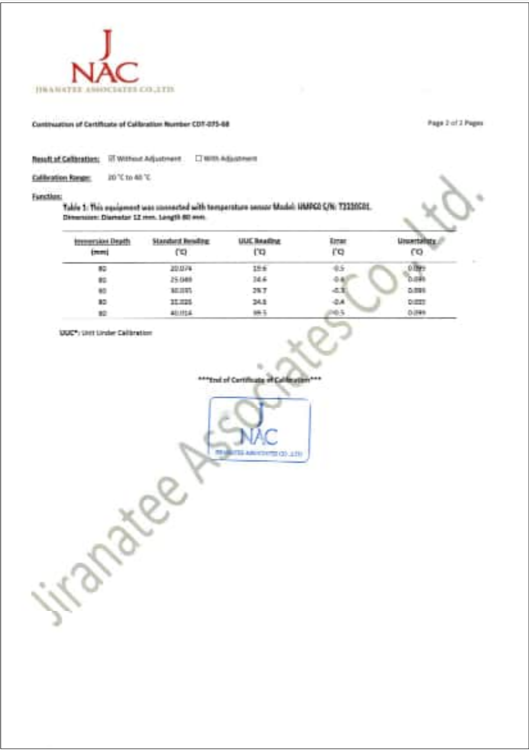

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JIRANATEE ASSOCIATES CO.,LTD.

Continuation of Certificate of Calibration Number CDT-075-68

Page 2 of 2 Pages

Result of Calibration: ☑ Without Adjustment ☐ With Adjustment

Calibration Range: 20 °C to 40 °C

Function:

Table 1: This equipment was connected with temperature sensor

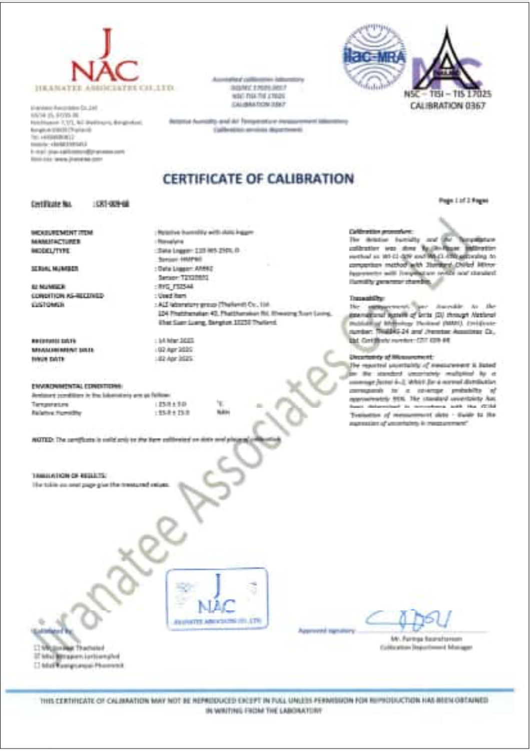
Dimension: Diameter 12 mm. Length 80 mm.

Immersion Depth (mm)	Standard Reading (°C)	UUC Reading (°C)	Error (°C)	Uncertainty (°C)
80	20.074	19.6	-0.5	[illegible]
80	25.049	24.6	-0.4	[illegible]
80	30.035	29.7	-0.3	[illegible]
80	35.025	34.6	-0.4	[illegible]
80	40.014	39.5	-0.5	[illegible]

UUC*: Unit Under Calibration

End of Certificate of Calibration

JNAC



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NSC – TISI – TIS 17025
CALIBRATION 0367

CERTIFICATE OF CALIBRATION

Page 1 of 2 Pages

MEASUREMENT ITEM : Relative humidity with data logger
MANUFACTURER : Novalynx

RECEIVED DATE : 14 Mar 2025
MEASUREMENT DATE : 02 Apr 2025
ISSUE DATE : 02 Apr 2025

ENVIRONMENTAL CONDITIONS:

TABULATION OF RESULTS:
The table on next page give the measured values.

Approved signatory

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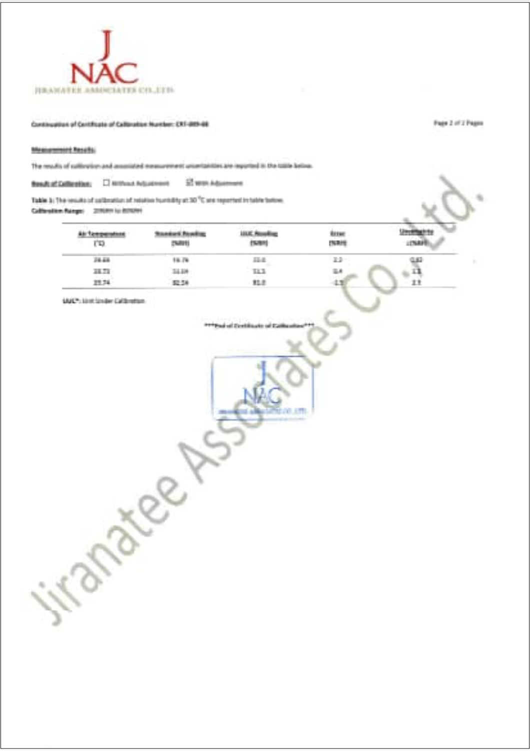

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JIRANATEE ASSOCIATES CO.,LTD.

Page 2 of 2 Pages

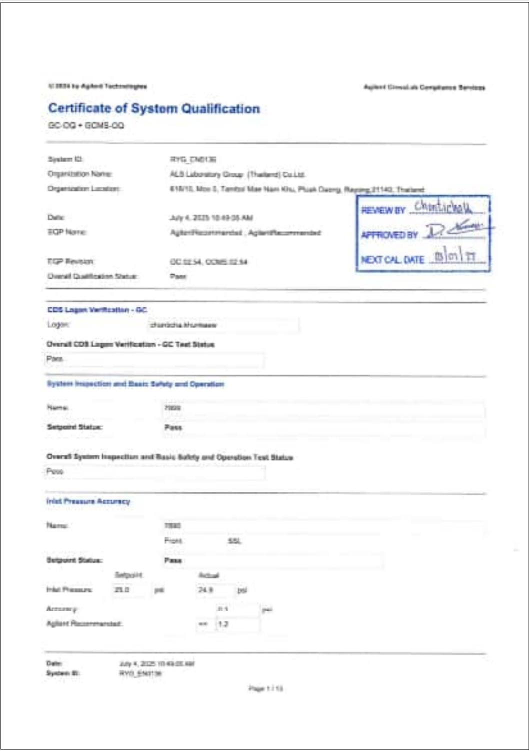
Measurement Results:

Result of Calibration: ☐ Without Adjustment ☑ With Adjustment

UUC*: Unit Under Calibration

End of Certificate of Calibration

JNAC



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Agilent CrossLab Compliance Services

Certificate of System Qualification

GC-OQ + GCMS-OQ

System ID: RYG_EN0136
Organization Name: ALS Laboratory Group (Thailand) Co.Ltd.
Organization Location: 618/10, Moo 3, Tambol Mae Nam Khu, Pluak Daeng, Rayong 21140, Thailand

Date: July 4, 2025 10:49:05 AM
EQP Name: AgilentRecommended , AgilentRecommended

EQP Revision: GC 02.54, GCMS 02.54
Overall Qualification Status: Pass

REVIEW BY Chanticha
APPROVED BY
NEXT CAL. DATE

CDS Logon Verification - GC

Logon: chanticha khumsaew

Overall CDS Logon Verification - GC Test Status

Pass

System Inspection and Basic Safety and Operation

Name: 7890
Setpoint Status: **Pass**

Overall System Inspection and Basic Safety and Operation Test Status

Pass

Inlet Pressure Accuracy

Name: 7890
Front SSL
Setpoint Status: **Pass**

	Setpoint		Actual	
Inlet Pressure:	25.0	psi	24.9	psi
Accuracy:			0.1	psi
Agilent Recommended:		<=	1.2	

Date: July 4, 2025 10:49:05 AM
System ID: RYG_EN0136

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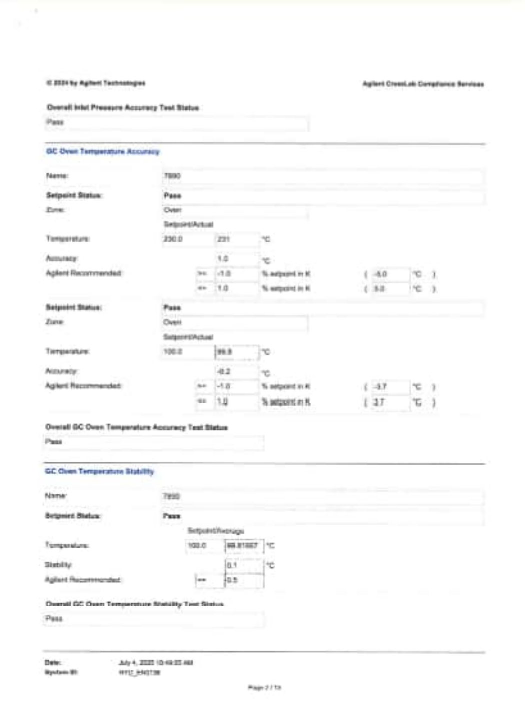


Overall Inlet Pressure Accuracy Test Status

Pass

GC Oven Temperature Accuracy

Name: 7890
Setpoint Status: **Pass**
Zone: Oven
Setpoint/Actual
Temperature: 230.0 231 °C
Accuracy: 1.0 °C
Agilent Recommended: >= -1.0 % setpoint in K (-5.0 °C)
<= 1.0 % setpoint in K (5.0 °C)

Setpoint Status: **Pass**
Zone: Oven
Setpoint/Actual
Temperature: 100.0 99.8 °C
Accuracy: -0.2 °C
Agilent Recommended: >= -1.0 % setpoint in K (-3.7 °C)
<= 1.0 % setpoint in K (3.7 °C)

Overall GC Oven Temperature Accuracy Test Status

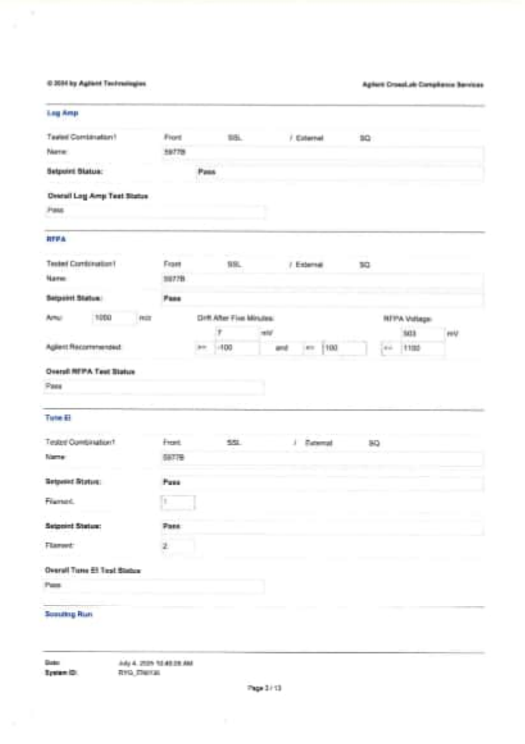
Pass

GC Oven Temperature Stability

Name: 7890
Setpoint Status: **Pass**
Setpoint/Average
Temperature: 100.0 99.91667 °C
Stability: 0.1 °C
Agilent Recommended: <= 0.5

Overall GC Oven Temperature Stability Test Status

Pass



Log Amp

Tested Combination1 Front SSL / External SQ
Name: 5977B
Setpoint Status: **Pass**

Overall Log Amp Test Status

Pass

RFPA

Tested Combination1 Front SSL / External SQ
Name: 5977B
Setpoint Status: **Pass**
Amu: 1000 m/z Drift After Five Minutes: 7 mV RFPA Voltage: 503 mV
Agilent Recommended: >= -100 and <= 100 <= 1100

Overall RFPA Test Status

Pass

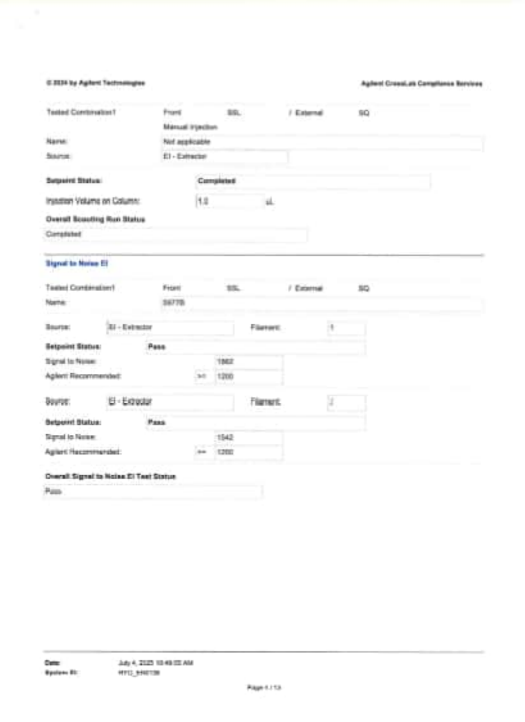
Tune EI

Tested Combination1 Front SSL / External SQ
Name: 5977B
Setpoint Status: **Pass**
Filament: 1
Setpoint Status: **Pass**
Filament: 2

Overall Tune EI Test Status

Pass

Scouting Run



Tested Combination1 Front SSL / External SQ
Manual Injection
Name: Not applicable
Source: EI - Extractor
Setpoint Status: **Completed**
Injection Volume on Column: 1.0 uL

Overall Scouting Run Status

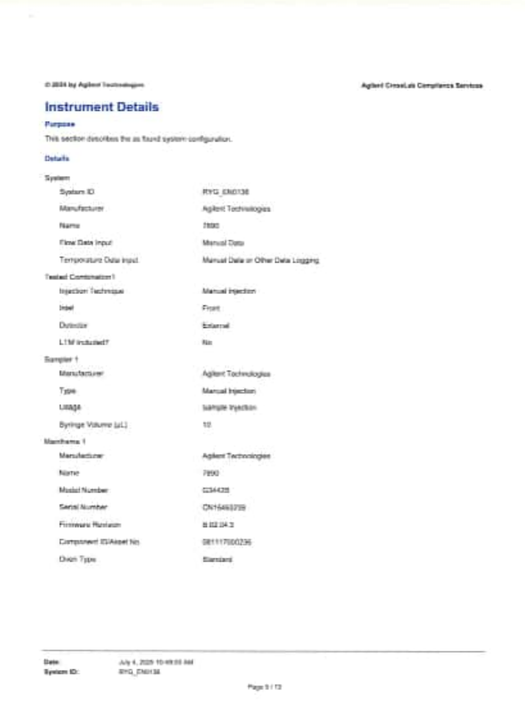
Completed

Signal to Noise EI

Tested Combination1 Front SSL / External SQ
Name: 5977B
Source: EI - Extractor Filament: 1
Setpoint Status: **Pass**
Signal to Noise: 1862
Agilent Recommended: >= 1200
Source: EI - Extractor Filament: 2
Setpoint Status: **Pass**
Signal to Noise: 1542
Agilent Recommended: >= 1200

Overall Signal to Noise EI Test Status

Pass



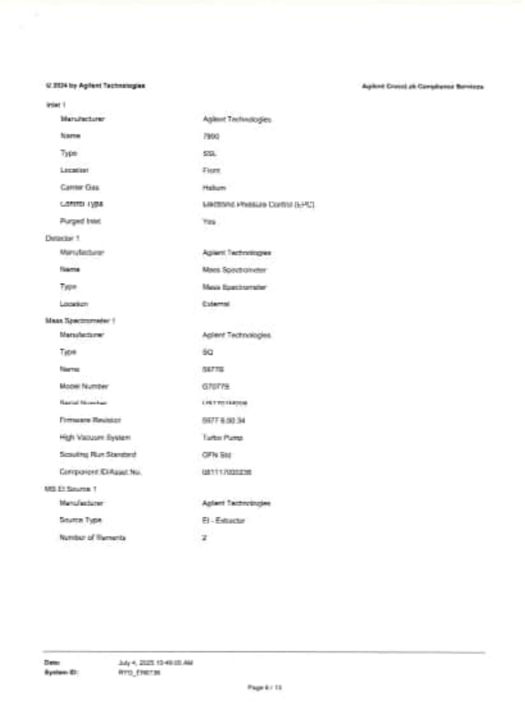
Instrument Details

Purpose

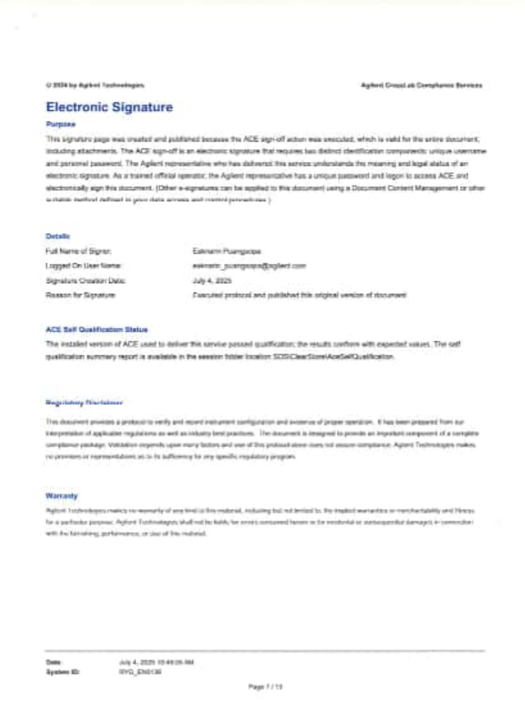
This section describes the as found system configuration.

Details

System	
System ID	RYG_EN0138
Manufacturer	Agilent Technologies
Name	7890
Flow Data Input	Manual Data
Temperature Data Input	Manual Data or Other Data Logging
Tested Combination1	
Injection Technique	Manual Injection
Inlet	Front
Detector	External
LTM Included?	No
Sampler 1	
Manufacturer	Agilent Technologies
Type	Manual Injection
Usage	sample injection
Syringe Volume (uL)	10
Mainframe 1	
Manufacturer	Agilent Technologies
Name	7890
Model Number	G3442B
Serial Number	CN16463709
Firmware Revision	B.02.04.3
Component ID/Asset No.	081117000236
Oven Type	Standard



Inlet 1	
Manufacturer	Agilent Technologies
Name	7890
Type	SSL
Location	Front
Carrier Gas	Helium
Control Type	Electronic Pressure Control (EPC)
Purged Inlet	Yes
Detector 1	
Manufacturer	Agilent Technologies
Name	Mass Spectrometer
Type	Mass Spectrometer
Location	External
Mass Spectrometer 1	
Manufacturer	Agilent Technologies
Type	SQ
Name	5977B
Model Number	G7077B
Serial Number	[illegible]
Firmware Revision	5977 6.00.34
High Vacuum System	Turbo Pump
Scouting Run Standard	OFN Std
Component ID/Asset No.	081117000238
MS EI Source 1	
Manufacturer	Agilent Technologies
Source Type	EI - Extractor
Number of filaments	2



Electronic Signature

Purpose

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Details

Full Name of Signer:	Eaknarin Puangpopa
Logged On User Name:	eaknarin_puangpopa@agilent.com
Signature Creation Date:	July 4, 2025
Reason for Signature:	Executed protocol and published this original version of document

ACE Self Qualification Status

The installed version of ACE used to deliver this service passed qualification; the results conform with expected values. The self qualification summary report is available in the session folder location SDS\ClearStore\AceSelfQualification.

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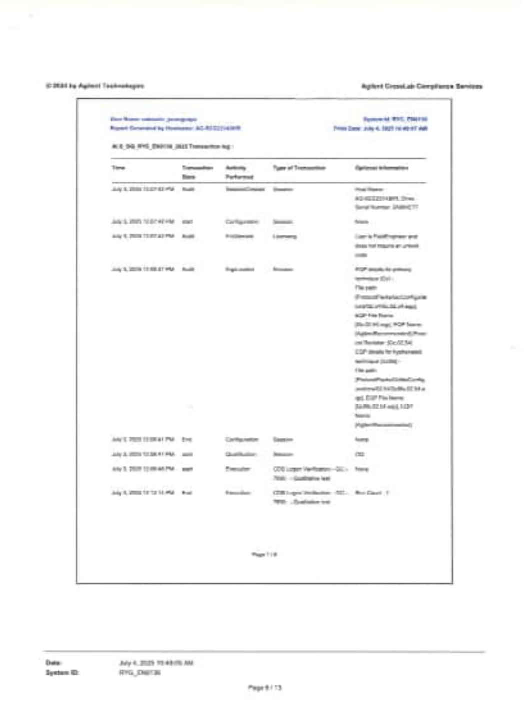

ACE_SQ_RYG_EN0138_2025 Transaction log :

ACE_SQ_RYG_EN0138_2025 Transaction log :

ACE_SQ_RYG_EN0138_2025 Transaction log :

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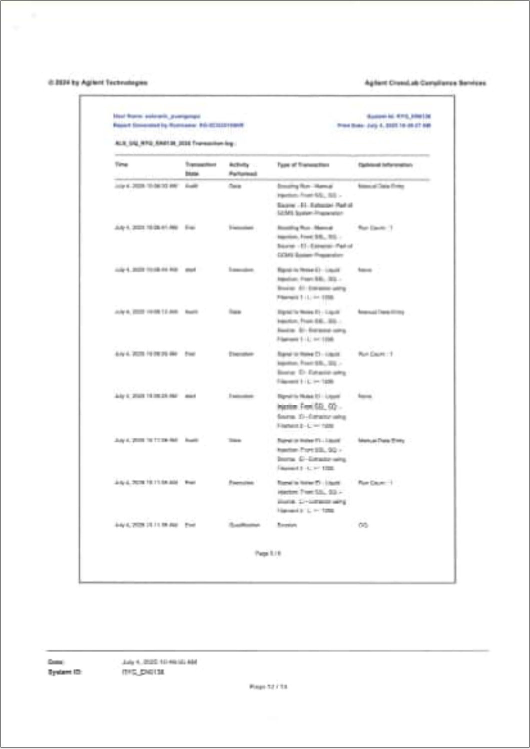

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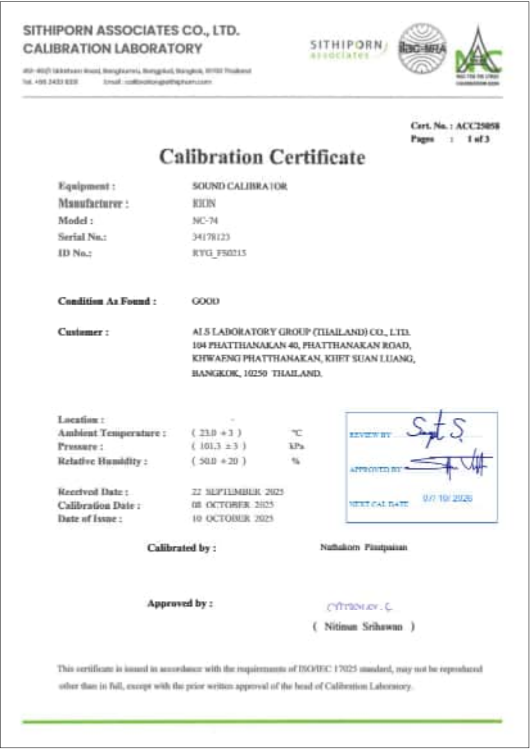


SITHIPORN ASSOCIATES CO., LTD.
CALIBRATION LABORATORY

Cert. No. : ACC25058
Pages : 1 of 3

Calibration Certificate

Equipment : SOUND CALIBRATOR
Manufacturer : RION
Model : NC-74
Serial No.: 34178123
ID No.: RYG_FS0215

Condition As Found : GOOD

Customer : ALS LABORATORY GROUP (THAILAND) CO., LTD.
104 PHATTHANAKAN 40, PHATTHANAKAN ROAD,
KHWAENG PHATTHANAKAN, KHET SUAN LUANG,
BANGKOK, 10250 THAILAND.

Location : -
Ambient Temperature : (23.0 ± 3) °C
Pressure : (101.3 ± 3) kPa
Relative Humidity : (50.0 ± 20) %

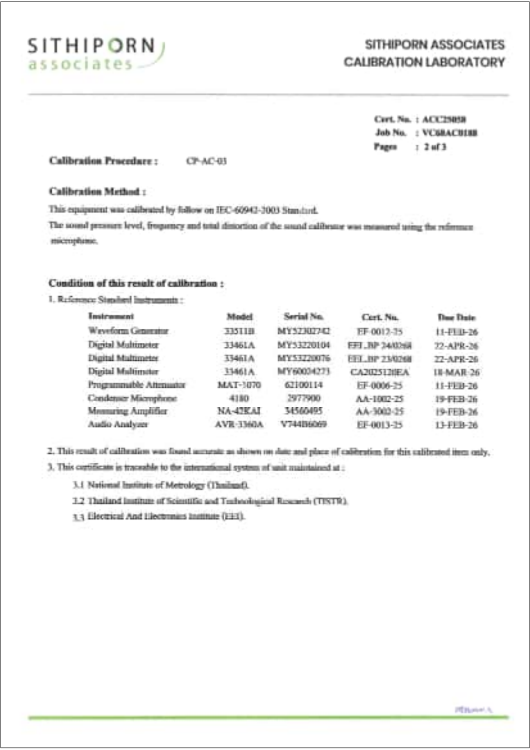
Received Date : 22 SEPTEMBER 2025
Calibration Date : 08 OCTOBER 2025
Date of Issue : 10 OCTOBER 2025

REVIEW BY Sujit S.
APPROVED BY
NEXT CAL DATE 07/10/2026

Calibrated by : Nathakorn Pinitpaisan

Approved by : (Nitinun Srihawan)

This certificate is issued in accordance with the requirements of ISO/IEC 17025 standard, may not be reproduced other than in full, except with the prior written approval of the head of Calibration Laboratory.



SITHIPORN ASSOCIATES
CALIBRATION LABORATORY

Cert. No. : ACC25058
Job No. : VC68AC0188
Pages : 2 of 3

Calibration Procedure : CP-AC-03

Calibration Method :

This equipment was calibrated by follow on IEC-60942-2003 Standard.

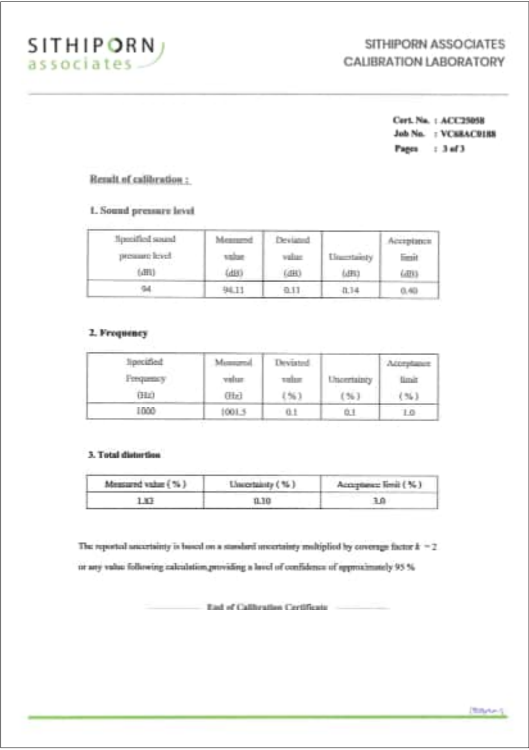
The sound pressure level, frequency and total distortion of the sound calibrator was measured using the reference microphone.

Condition of this result of calibration :

1. Reference Standard Instruments :

Instrument	Model	Serial No.	Cert. No.	Due Date
Waveform Generator	33511B	MY52302742	EF-0012-25	11-FEB-26
Digital Multimeter	33461A	MY53220104	EEI_BP 24/0268	22-APR-26
Digital Multimeter	33461A	MY53220076	EEI_BP 23/0268	22-APR-26
Digital Multimeter	33461A	MY60024273	CA2025120EA	18-MAR-26
Programmable Attenuator	MAT-3070	62100114	EF-0006-25	11-FEB-26
Condenser Microphone	4180	2977900	AA-1002-25	19-FEB-26
Measuring Amplifier	NA-42KAI	34560495	AA-3002-25	19-FEB-26
Audio Analyzer	AVR-3360A	V744B6069	EF-0013-25	13-FEB-26

2. This result of calibration was found accurate as shown on date and place of calibration for this calibrated item only.
3. This certificate is traceable to the international system of unit maintained at :
   - 3.1 National Institute of Metrology (Thailand).
   - 3.2 Thailand Institute of Scientific and Technological Research (TISTR).
   - 3.3 Electrical And Electronics Institute (EEI).



SITHIPORN ASSOCIATES
CALIBRATION LABORATORY

Cert. No. : ACC25058
Job No. : VC68AC0188
Pages : 3 of 3

Result of calibration :

1. Sound pressure level

Specified sound pressure level (dB)	Measured value (dB)	Deviated value (dB)	Uncertainty (dB)	Acceptance limit (dB)
94	94.11	0.11	0.14	0.40

2. Frequency

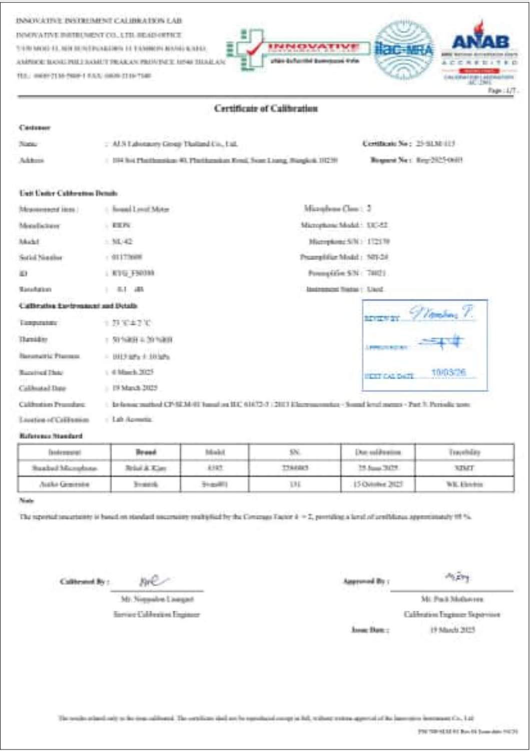
Specified Frequency (Hz)	Measured value (Hz)	Deviated value (%)	Uncertainty (%)	Acceptance limit (%)
1000	1001.5	0.1	0.1	1.0

3. Total distortion

Measured value (%)	Uncertainty (%)	Acceptance limit (%)
1.83	0.10	3.0

The reported uncertainty is based on a standard uncertainty multiplied by coverage factor k = 2 or any value following calculation,providing a level of confidence of approximately 95 %.

End of Calibration Certificate



INNOVATIVE INSTRUMENT CALIBRATION LAB
INNOVATIVE INSTRUMENT CO., LTD. HEAD OFFICE

Page : 1/7

Certificate of Calibration

Customer

Name : ALS Laboratory Group Thailand Co., Ltd. — **Certificate No :** 25-SLM-113
Address : 104 Soi Phatthanakan 40, Phatthanakan Road, Suan Luang, Bangkok 10250 — **Request No :** Req-2025-[illegible]

Unit Under Calibration Details

Measurement item : Sound Level Meter — Microphone Class : 2
Manufacturer : RION — Microphone Model : UC-52
Model : NL-42 — Microphone S/N : [illegible]
Serial Number : [illegible] — Preamplifier Model : NH-24
ID : RYG_FS[illegible] — Preamplifier S/N : [illegible]
Resolution : 0.1 dB — Instrument Status : Used

Calibration Environment and Details

Temperature : 23 °C ± 2 °C
Humidity : 50 %RH ± 20 %RH
Barometric Pressure : 1013 hPa ± 10 hPa
Received Date : 6 March 2025
Calibrated Date : 19 March 2025
Calibration Procedure : In-house method CP-SLM-01 based on IEC 61672-3 : 2013 Electroacoustics - Sound level meters - Part 3: Periodic tests
Location of Calibration : Lab Acoustic

REVIEW BY
APPROVED BY
NEXT CAL DATE 10/03/26

Reference Standard

Instrument	Brand	Model	S/N	Due calibration	Traceability
Standard Microphone	Brüel & Kjær	[illegible]	[illegible]	25 June 2025	NIMT
Audio Generator	Svantek	[illegible]	131	15 October 2025	[illegible]

Note

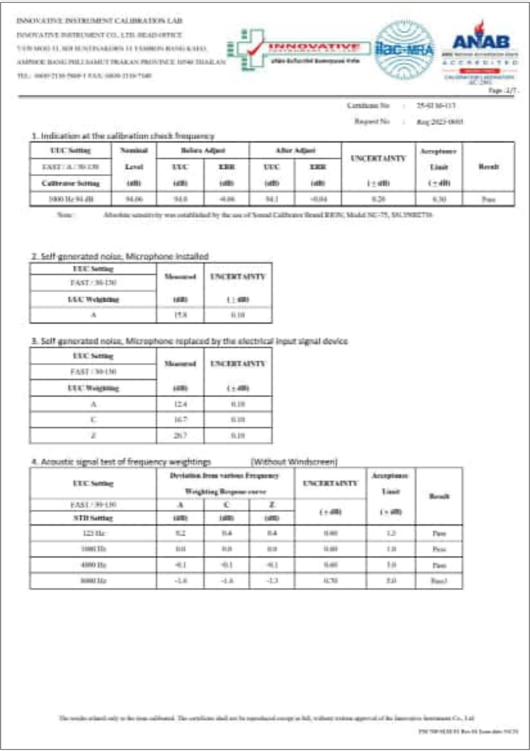
The reported uncertainty is based on standard uncertainty multiplied by the Coverage Factor k = 2, providing a level of confidence approximately 95 %.

Calibrated By : Mr. [illegible] — Service Calibration Engineer

Approved By : Mr. [illegible] — Calibration Engineer Supervisor

Issue Date : 19 March 2025

The results related only to the items calibrated. The certificate shall not be reproduced except in full, without written approval of the Innovative Instrument Co., Ltd



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INNOVATIVE INSTRUMENT CO., LTD. HEAD OFFICE

Page : 2/7

Certificate No : 25-SLM-113
Request No : Req-2025-[illegible]

1. Indication at the calibration check frequency

UUC Setting FAST / A / 30-130 Calibrator Setting	Nominal Level (dB)	Before Adjust UUC (dB)	Before Adjust ERR (dB)	After Adjust UUC (dB)	After Adjust ERR (dB)	UNCERTAINTY (± dB)	Acceptance Limit (± dB)	Result
1000 Hz 94 dB	94.00	94.0	[illegible]	94.1	[illegible]	0.20	0.30	Pass

Note: Absolute sensitivity was established by the use of Sound Calibrator Brand RION, Model NC-75, SN.[illegible]

2. Self-generated noise, Microphone installed

UUC Setting FAST / 30-130 UUC Weighting	Measured (dB)	UNCERTAINTY (± dB)
A	15.8	[illegible]

3. Self generated noise, Microphone replaced by the electrical input signal device

UUC Setting FAST / 30-130 UUC Weighting	Measured (dB)	UNCERTAINTY (± dB)
A	12.4	[illegible]
C	16.7	[illegible]
Z	20.7	[illegible]

4. Acoustic signal test of frequency weightings (Without Windscreen)

UUC Setting FAST / 30-130 STD Setting	Deviation from various Frequency Weighting Response curve A (dB)	C (dB)	Z (dB)	UNCERTAINTY (± dB)	Acceptance Limit (± dB)	Result
125 Hz	0.2	0.4	0.4	[illegible]	[illegible]	Pass
1000 Hz	0.0	0.0	0.0	[illegible]	[illegible]	Pass
4000 Hz	-0.1	-0.1	-0.1	[illegible]	[illegible]	Pass
8000 Hz	-1.6	-1.6	-1.3	0.70	[illegible]	Pass

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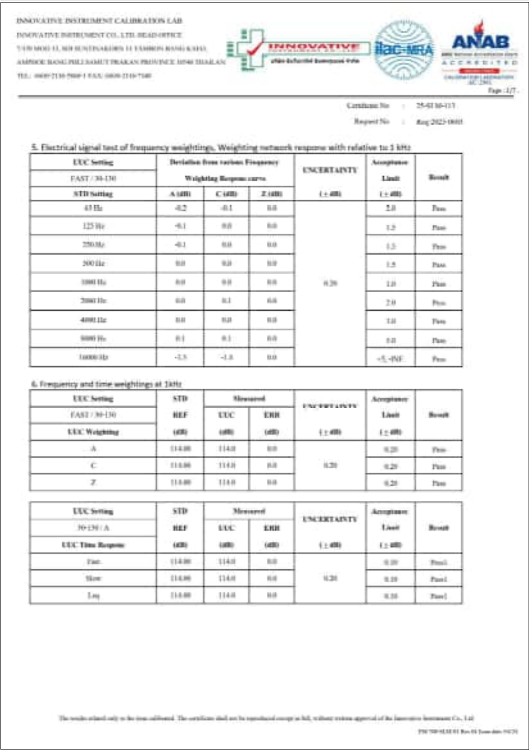

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INNOVATIVE INSTRUMENT CO., LTD. HEAD OFFICE

Page : 3/7

Certificate No : 25-SLM-113
Request No : Req-2025-[illegible]

5. Electrical signal test of frequency weightings, Weighting network response with relative to 1 kHz

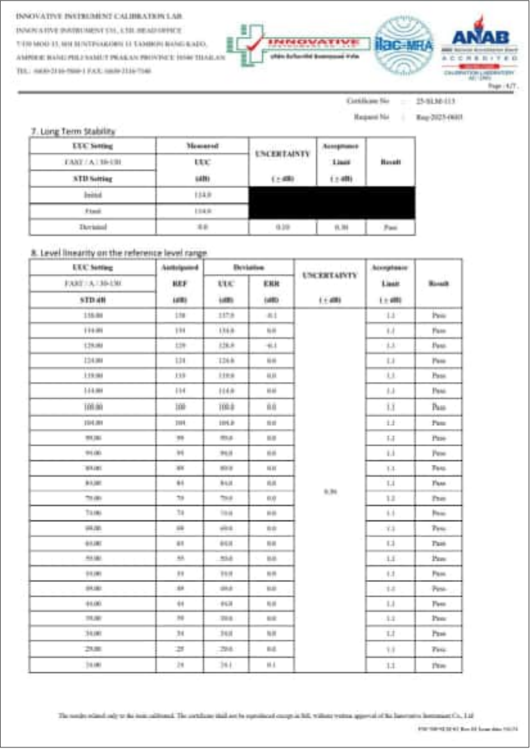
UUC Setting FAST / 30-130 STD Setting	Deviation from various Frequency Weighting Response curve A (dB)	C (dB)	Z (dB)	UNCERTAINTY (± dB)	Acceptance Limit (± dB)	Result
63 Hz	-0.2	-0.1	0.0	0.20	2.0	Pass
125 Hz	-0.1	0.0	0.0		1.5	Pass
250 Hz	-0.1	0.0	0.0		1.5	Pass
500 Hz	0.0	0.0	0.0		1.5	Pass
1000 Hz	0.0	0.0	0.0		1.0	Pass
2000 Hz	0.0	0.1	0.0		2.0	Pass
4000 Hz	0.0	0.0	0.0		3.0	Pass
8000 Hz	0.1	0.1	0.0		5.0	Pass
16000 Hz	-1.5	-1.8	0.0		+5, -INF	Pass

6. Frequency and time weightings at 1kHz

UUC Setting FAST / 30-130 UUC Weighting	STD REF (dB)	Measured UUC (dB)	Measured ERR (dB)	UNCERTAINTY (± dB)	Acceptance Limit (± dB)	Result
A	114.00	114.0	0.0	0.20	[illegible]	Pass
C	114.00	114.0	0.0		[illegible]	Pass
Z	114.00	114.0	0.0		[illegible]	Pass

UUC Setting 30-130 / A UUC Time Response	STD REF (dB)	Measured UUC (dB)	Measured ERR (dB)	UNCERTAINTY (± dB)	Acceptance Limit (± dB)	Result
Fast	114.00	114.0	0.0	0.20	[illegible]	Pass
Slow	114.00	114.0	0.0		[illegible]	Pass
Leq	114.00	114.0	0.0		[illegible]	Pass

The results related only to the items calibrated. The certificate shall not be reproduced except in full, without written approval of the Innovative Instrument Co., Ltd



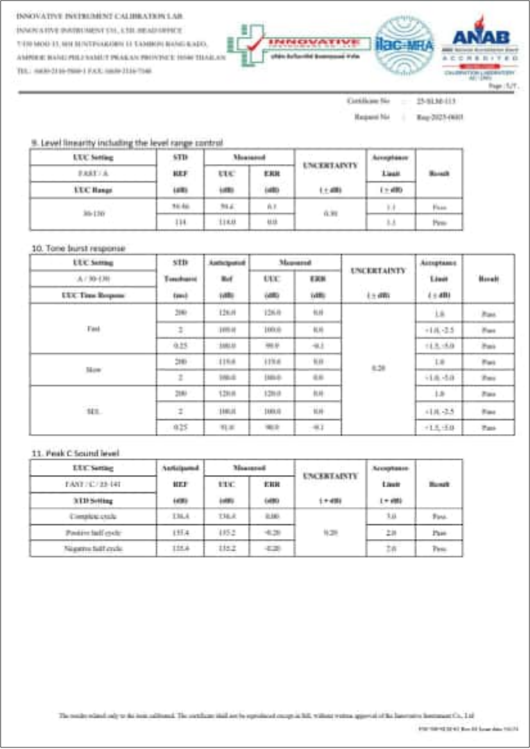
Certificate No : 25-SLM-113
Request No : Req-2025-0601

7. Long Term Stability

UUC Setting	Measured	UNCERTAINTY	Acceptance	Result
FAST / A / 30-130	UUC		Limit	
STD Setting	(dB)	(± dB)	(± dB)	
Initial	114.0	[redacted]	[redacted]	[redacted]
Final	114.0	[redacted]	[redacted]	[redacted]
Deviated	0.0	0.10	0.30	Pass

8. Level linearity on the reference level range

UUC Setting	Anticipated	Deviation		UNCERTAINTY	Acceptance	Result
FAST / A / 30-130	REF	UUC	ERR		Limit	
STD dB	(dB)	(dB)	(dB)	(± dB)	(± dB)	
130.00	130	129.9	-0.1	0.30	1.1	Pass
134.00	134	134.0	0.0		1.1	Pass
129.00	129	128.9	-0.1		1.1	Pass
124.00	124	124.0	0.0		1.1	Pass
119.00	119	119.0	0.0		1.1	Pass
114.00	114	114.0	0.0		1.1	Pass
109.00	109	109.0	0.0		1.1	Pass
104.00	104	104.0	0.0		1.1	Pass
99.00	99	99.0	0.0		1.1	Pass
94.00	94	94.0	0.0		1.1	Pass
89.00	89	89.0	0.0		1.1	Pass
84.00	84	84.0	0.0		1.1	Pass
79.00	79	79.0	0.0		1.1	Pass
74.00	74	74.0	0.0		1.1	Pass
69.00	69	69.0	0.0		1.1	Pass
64.00	64	64.0	0.0		1.1	Pass
59.00	59	59.0	0.0		1.1	Pass
54.00	54	54.0	0.0		1.1	Pass
49.00	49	49.0	0.0		1.1	Pass
44.00	44	44.0	0.0		1.1	Pass
39.00	39	39.0	0.0		1.1	Pass
34.00	34	34.0	0.0		1.1	Pass
29.00	29	29.0	0.0		1.1	Pass
24.00	24	24.1	0.1		1.1	Pass



Certificate No : 25-SLM-113
Request No : Req-2025-0601

9. Level linearity including the level range control

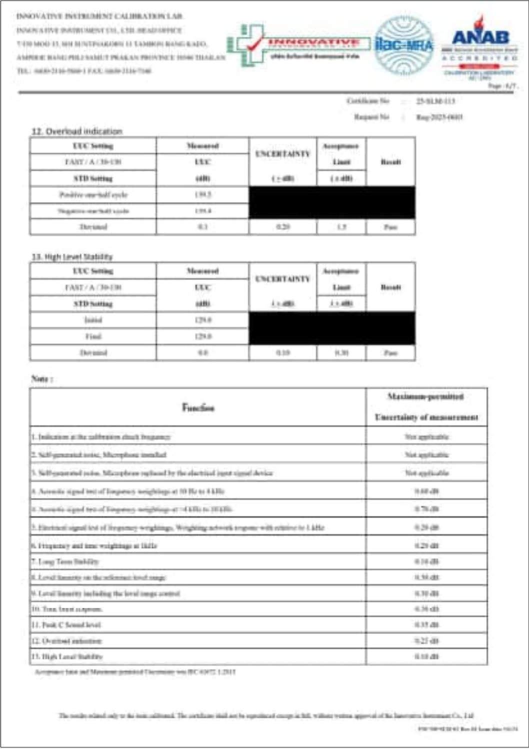
UUC Setting	STD	Measured		UNCERTAINTY	Acceptance	Result
FAST / A	REF	UUC	ERR		Limit	
UUC Range	(dB)	(dB)	(dB)	(± dB)	(± dB)	
30-130	94.46	94.4	0.1	0.30	1.1	Pass
	114	114.0	0.0		1.1	Pass

10. Tone burst response

UUC Setting	STD	Anticipated	Measured		UNCERTAINTY	Acceptance	Result
A / 30-130	Toneburst	Ref	UUC	ERR		Limit	
UUC Time Response	(ms)	(dB)	(dB)	(dB)	(± dB)	(± dB)	
Fast	200	126.0	126.0	0.0	0.20	1.0	Pass
	2	109.0	109.0	0.0		+1.0, -2.5	Pass
	0.25	100.0	99.9	-0.1		+1.5, -5.0	Pass
Slow	200	119.0	119.0	0.0		1.0	Pass
	2	100.0	100.0	0.0		+1.0, -5.0	Pass
SEL	200	120.0	120.0	0.0		1.0	Pass
	2	100.0	100.0	0.0		+1.0, -2.5	Pass
	0.25	91.0	90.9	-0.1		+1.5, -5.0	Pass

11. Peak C Sound level

UUC Setting	Anticipated	Measured		UNCERTAINTY	Acceptance	Result
FAST / C / 25-141	REF	UUC	ERR		Limit	
STD Setting	(dB)	(dB)	(dB)	(± dB)	(± dB)	
Complete cycle	136.4	136.4	0.00	0.20	3.0	Pass
Positive half cycle	135.4	135.2	-0.20		2.0	Pass
Negative half cycle	135.4	135.2	-0.20		2.0	Pass



Certificate No : 25-SLM-113
Request No : Req-2025-0601

12. Overload indication

UUC Setting	Measured	UNCERTAINTY	Acceptance	Result
FAST / A / 30-130	UUC		Limit	
STD Setting	(dB)	(± dB)	(± dB)	
Positive one-half cycle	139.5	[redacted]	[redacted]	[redacted]
Negative one-half cycle	139.4	[redacted]	[redacted]	[redacted]
Deviated	0.1	0.20	1.5	Pass

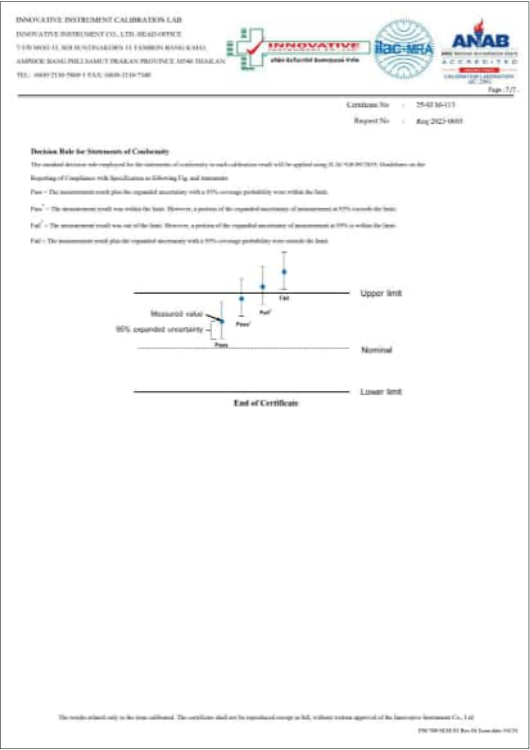
13. High Level Stability

UUC Setting	Measured	UNCERTAINTY	Acceptance	Result
FAST / A / 30-130	UUC		Limit	
STD Setting	(dB)	(± dB)	(± dB)	
Initial	129.0	[redacted]	[redacted]	[redacted]
Final	129.0	[redacted]	[redacted]	[redacted]
Deviated	0.0	0.10	0.30	Pass

Note :

Function	Maximum-permitted Uncertainty of measurement
1. Indication at the calibration check frequency	Not applicable
2. Self-generated noise, Microphone installed	Not applicable
3. Self-generated noise, Microphone replaced by the electrical input signal device	Not applicable
4. Acoustic signal test of frequency weightings at 10 Hz to 4 kHz	0.60 dB
4. Acoustic signal test of frequency weightings at >4 kHz to 10 kHz	0.70 dB
5. Electrical signal test of frequency weightings, Weighting network response with relative to 1 kHz	0.20 dB
6. Frequency and time weightings at 1kHz	0.20 dB
7. Long Term Stability	0.10 dB
8. Level linearity on the reference level range	0.30 dB
9. Level linearity including the level range control	0.30 dB
10. Tone burst response	0.30 dB
11. Peak C Sound level	0.35 dB
12. Overload indication	0.25 dB
13. High Level Stability	0.10 dB

Acceptance limit and Maximum permitted Uncertainty was IEC 61672-1:2013



Certificate No : 25-SLM-113
Request No : Req-2025-0601

Decision Rule for Statements of Conformity

The standard decision rule employed for the statements of conformity to each calibration result will be applied using ILAC-G8:09/2019, Guidelines on the Reporting of Compliance with Specification as following Fig. and statements

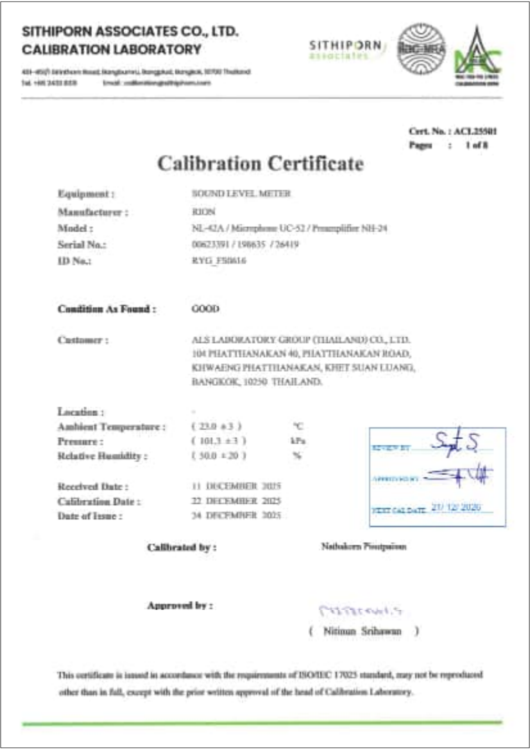
Pass = The measurement result plus the expanded uncertainty with a 95% coverage probability were within the limit.

Pass^{1} = The measurement result was within the limit. However, a portion of the expanded uncertainty of measurement at 95% exceeds the limit.

Fail^{1} = The measurement result was out of the limit. However, a portion of the expanded uncertainty of measurement at 95% is within the limit.

Fail = The measurement result plus the expanded uncertainty with a 95% coverage probability were outside the limit.

End of Certificate



SITHIPORN ASSOCIATES CO., LTD.
CALIBRATION LABORATORY

Cert. No. : ACL25501
Pages : 1 of 8

Calibration Certificate

Equipment : SOUND LEVEL METER
Manufacturer : RION
Model : NL-42A / Microphone UC-52 / Preamplifier NH-24
Serial No.: 00623391 / 198635 / 26419
ID No.: RYG_FS0616

Condition As Found : GOOD

Customer : ALS LABORATORY GROUP (THAILAND) CO., LTD.
104 PHATTHANAKAN 40, PHATTHANAKAN ROAD,
KHWAENG PHATTHANAKAN, KHET SUAN LUANG,
BANGKOK, 10250 THAILAND.

Location : -
Ambient Temperature : (23.0 ± 3) °C
Pressure : (101.3 ± 3) kPa
Relative Humidity : (50.0 ± 20) %

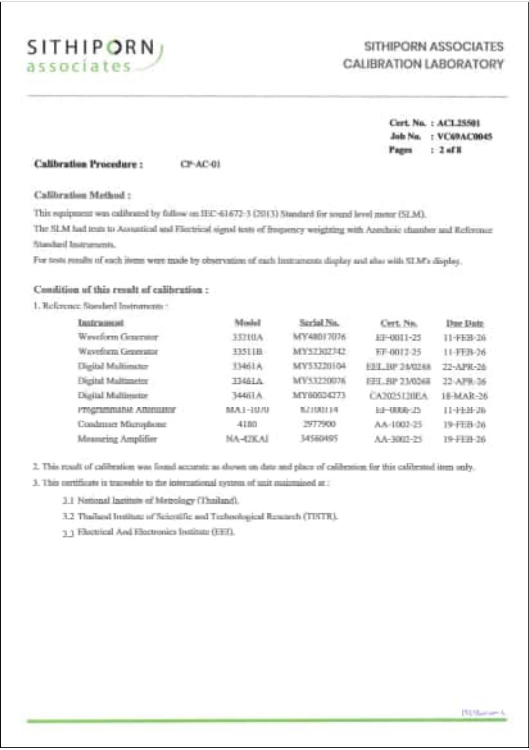
Received Date : 11 DECEMBER 2025
Calibration Date : 22 DECEMBER 2025
Date of Issue : 24 DECEMBER 2025

REVIEW BY
APPROVED BY
NEXT CAL DATE 21/ 12/ 2026

Calibrated by : Nathakorn Pinitpaisan

Approved by : (Nitinun Srihawan)

This certificate is issued in accordance with the requirements of ISO/IEC 17025 standard, may not be reproduced other than in full, except with the prior written approval of the head of Calibration Laboratory.



Cert. No. : ACL25501
Job No. : VC69AC0045
Pages : 2 of 8

Calibration Procedure : CP-AC-01

Calibration Method :

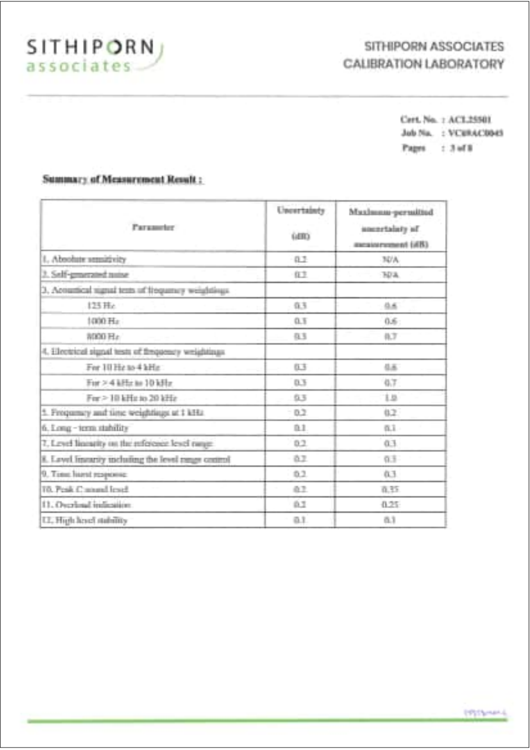
This equipment was calibrated by follow on IEC-61672-3 (2013) Standard for sound level meter (SLM).
The SLM had tests to Acoustical and Electrical signal tests of frequency weighting with Anechoic chamber and Reference Standard Instruments.
For tests results of each items were made by observation of each Instruments display and also with SLM's display.

Condition of this result of calibration :

1. Reference Standard Instruments :

Instrument	Model	Serial No.	Cert. No.	Due Date
Waveform Generator	33210A	MY48017076	EF-0011-25	11-FEB-26
Waveform Generator	33511B	MY52302742	EF-0012-25	11-FEB-26
Digital Multimeter	33461A	MY53220104	EEI_BP 24/0268	22-APR-26
Digital Multimeter	33461A	MY53220076	EEI_BP 23/0268	22-APR-26
Digital Multimeter	34461A	MY60024273	CA2025120EA	18-MAR-26
Programmable Attenuator	MA1-10/0	82100114	EF-0008-25	11-FEB-26
Condenser Microphone	4180	2977900	AA-1002-25	19-FEB-26
Measuring Amplifier	NA-42KAI	34560495	AA-3002-25	19-FEB-26

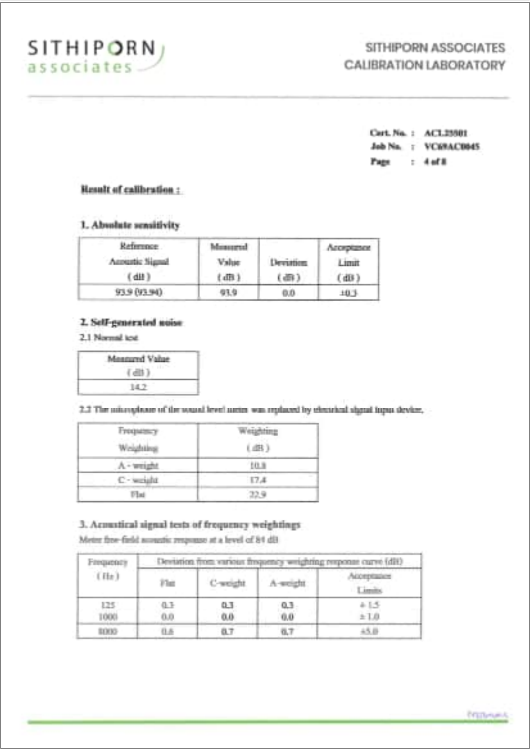
2. This result of calibration was found accurate as shown on date and place of calibration for this calibrated item only.
3. This certificate is traceable to the international system of unit maintained at :
    3.1 National Institute of Metrology (Thailand).
    3.2 Thailand Institute of Scientific and Technological Research (TISTR).
    3.3 Electrical And Electronics Institute (EEI).



Cert. No. : ACL25501
Job No. : VC69AC0045
Pages : 3 of 8

Summary of Measurement Result :

Parameter	Uncertainty (dB)	Maximum-permitted uncertainty of measurement (dB)
1. Absolute sensitivity	0.2	N/A
2. Self-generated noise	0.2	N/A
3. Acoustical signal tests of frequency weightings		
125 Hz	0.3	0.6
1000 Hz	0.3	0.6
8000 Hz	0.3	0.7
4. Electrical signal tests of frequency weightings		
For 10 Hz to 4 kHz	0.3	0.6
For > 4 kHz to 10 kHz	0.3	0.7
For > 10 kHz to 20 kHz	0.3	1.0
5. Frequency and time weightings at 1 kHz	0.2	0.2
6. Long - term stability	0.1	0.1
7. Level linearity on the reference level range	0.2	0.3
8. Level linearity including the level range control	0.2	0.3
9. Tone burst response	0.2	0.3
10. Peak C sound level	0.2	0.35
11. Overload indication	0.2	0.25
12. High level stability	0.1	0.1



Cert. No. : ACL25501
Job No. : VC69AC0045
Page : 4 of 8

Result of calibration :

1. Absolute sensitivity

Reference Acoustic Signal (dB)	Measured Value (dB)	Deviation (dB)	Acceptance Limit (dB)
93.9 (93.94)	93.9	0.0	±0.3

2. Self-generated noise

2.1 Normal test

Measured Value (dB)
14.2

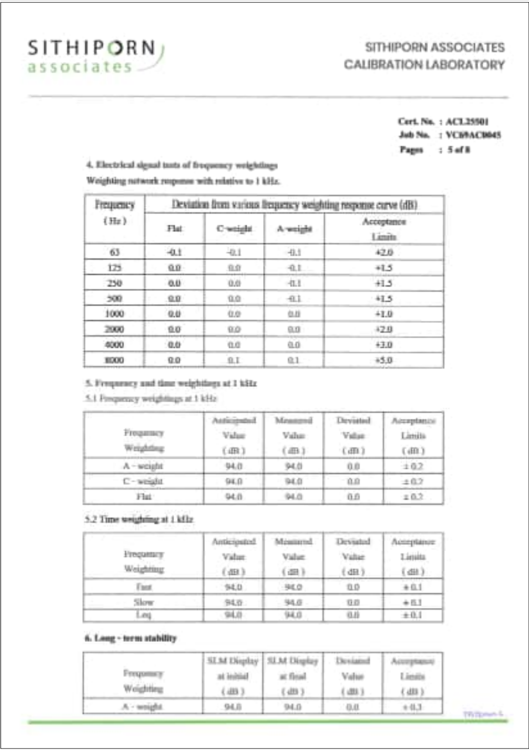
2.2 The microphone of the sound level meter was replaced by electrical signal input device.

Frequency Weighting	Weighting (dB)
A - weight	10.8
C - weight	17.4
Flat	22.9

3. Acoustical signal tests of frequency weightings

Meter free-field acoustic response at a level of 84 dB

Frequency (Hz)	Deviation from various frequency weighting response curve (dB)			
	Flat	C-weight	A-weight	Acceptance Limits
125	0.3	0.3	0.3	± 1.5
1000	0.0	0.0	0.0	± 1.0
8000	0.6	0.7	0.7	±5.0



Cert. No. : ACL25501
Job No. : VC69AC0045
Pages : 5 of 8

4. Electrical signal tests of frequency weightings
Weighting network response with relative to 1 kHz.

Frequency (Hz)	Deviation from various frequency weighting response curve (dB)			
	Flat	C-weight	A-weight	Acceptance Limits
63	-0.1	-0.1	-0.1	±2.0
125	0.0	0.0	-0.1	±1.5
250	0.0	0.0	-0.1	±1.5
500	0.0	0.0	-0.1	±1.5
1000	0.0	0.0	0.0	±1.0
2000	0.0	0.0	0.0	±2.0
4000	0.0	0.0	0.0	±3.0
8000	0.0	0.1	0.1	±5.0

5. Frequency and time weightings at 1 kHz

5.1 Frequency weightings at 1 kHz

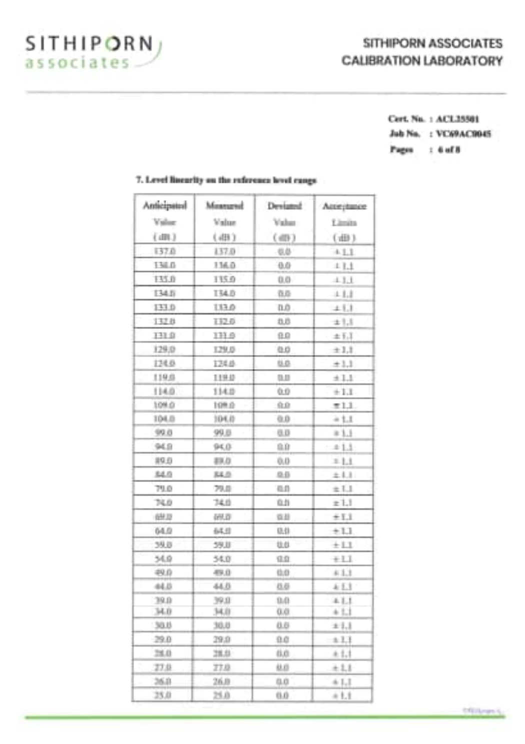
Frequency Weighting	Anticipated Value (dB)	Measured Value (dB)	Deviated Value (dB)	Acceptance Limits (dB)
A - weight	94.0	94.0	0.0	± 0.2
C - weight	94.0	94.0	0.0	± 0.2
Flat	94.0	94.0	0.0	± 0.2

5.2 Time weighting at 1 kHz

Frequency Weighting	Anticipated Value (dB)	Measured Value (dB)	Deviated Value (dB)	Acceptance Limits (dB)
Fast	94.0	94.0	0.0	± 0.1
Slow	94.0	94.0	0.0	± 0.1
Leq	94.0	94.0	0.0	± 0.1

6. Long - term stability

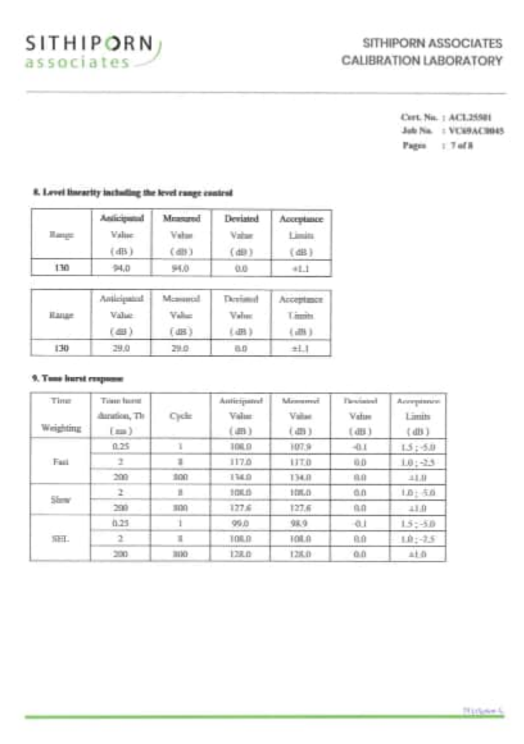
Frequency Weighting	SLM Display at initial (dB)	SLM Display at final (dB)	Deviated Value (dB)	Acceptance Limits (dB)
A - weight	94.0	94.0	0.0	± 0.3



Cert. No. : ACL25501
Job No. : VC69AC0045
Pages : 6 of 8

7. Level linearity on the reference level range

Anticipated Value (dB)	Measured Value (dB)	Deviated Value (dB)	Acceptance Limits (dB)
137.0	137.0	0.0	± 1.1
136.0	136.0	0.0	± 1.1
135.0	135.0	0.0	± 1.1
134.0	134.0	0.0	± 1.1
133.0	133.0	0.0	± 1.1
132.0	132.0	0.0	± 1.1
131.0	131.0	0.0	± 1.1
129.0	129.0	0.0	± 1.1
124.0	124.0	0.0	± 1.1
119.0	119.0	0.0	± 1.1
114.0	114.0	0.0	± 1.1
109.0	109.0	0.0	± 1.1
104.0	104.0	0.0	± 1.1
99.0	99.0	0.0	± 1.1
94.0	94.0	0.0	± 1.1
89.0	89.0	0.0	± 1.1
84.0	84.0	0.0	± 1.1
79.0	79.0	0.0	± 1.1
74.0	74.0	0.0	± 1.1
69.0	69.0	0.0	± 1.1
64.0	64.0	0.0	± 1.1
59.0	59.0	0.0	± 1.1
54.0	54.0	0.0	± 1.1
49.0	49.0	0.0	± 1.1
44.0	44.0	0.0	± 1.1
39.0	39.0	0.0	± 1.1
34.0	34.0	0.0	± 1.1
30.0	30.0	0.0	± 1.1
29.0	29.0	0.0	± 1.1
28.0	28.0	0.0	± 1.1
27.0	27.0	0.0	± 1.1
26.0	26.0	0.0	± 1.1
25.0	25.0	0.0	± 1.1



Cert. No. : ACL25501
Job No. : VC69AC0045
Pages : 7 of 8

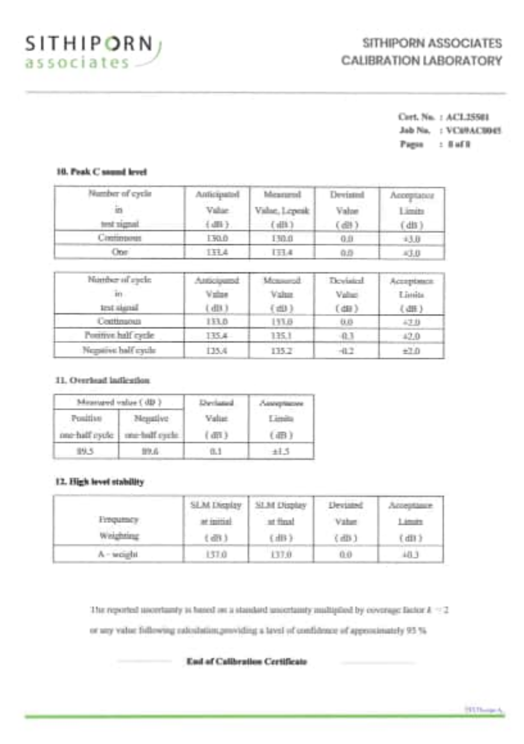
8. Level linearity including the level range control

Range	Anticipated Value (dB)	Measured Value (dB)	Deviated Value (dB)	Acceptance Limits (dB)
130	94.0	94.0	0.0	±1.1

Range	Anticipated Value (dB)	Measured Value (dB)	Deviated Value (dB)	Acceptance Limits (dB)
130	29.0	29.0	0.0	±1.1

9. Tone burst response

Time Weighting	Tone burst duration, Tb (ms)	Cycle	Anticipated Value (dB)	Measured Value (dB)	Deviated Value (dB)	Acceptance Limits (dB)
Fast	0.25	1	108.0	107.9	-0.1	1.5 ; -5.0
	2	8	117.0	117.0	0.0	1.0 ; -2.5
	200	800	134.0	134.0	0.0	±1.0
Slow	2	8	108.0	108.0	0.0	1.0 ; -5.0
	200	800	127.6	127.6	0.0	±1.0
SEL	0.25	1	99.0	98.9	-0.1	1.5 ; -5.0
	2	8	108.0	108.0	0.0	1.0 ; -2.5
	200	800	128.0	128.0	0.0	±1.0



Cert. No. : ACL25501
Job No. : VC69AC0045
Pages : 8 of 8

10. Peak C sound level

Number of cycle in test signal	Anticipated Value (dB)	Measured Value, Lcpeak (dB)	Deviated Value (dB)	Acceptance Limits (dB)
Continuous	130.0	130.0	0.0	±3.0
One	133.4	133.4	0.0	±3.0

Number of cycle in test signal	Anticipated Value (dB)	Measured Value (dB)	Deviated Value (dB)	Acceptance Limits (dB)
Continuous	133.0	133.0	0.0	±2.0
Positive half cycle	135.4	135.1	-0.3	±2.0
Negative half cycle	135.4	135.2	-0.2	±2.0

11. Overload indication

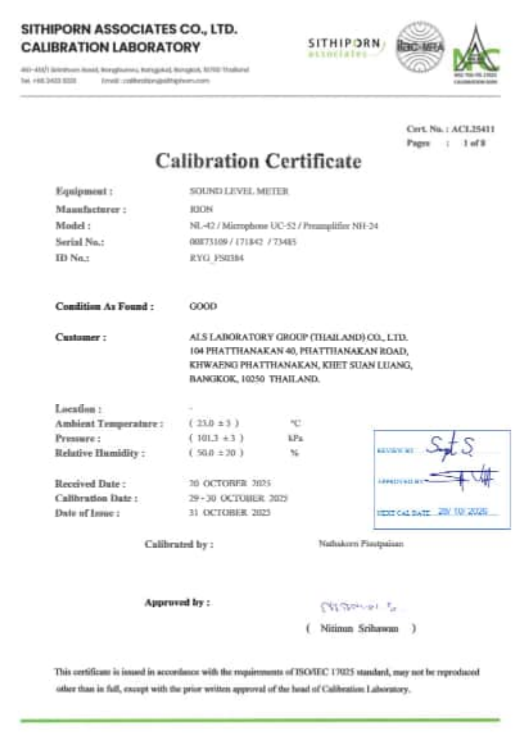
Measured value (dB)		Deviated Value (dB)	Acceptance Limits (dB)
Positive one-half cycle	Negative one-half cycle		
89.5	89.6	0.1	±1.5

12. High level stability

Frequency Weighting	SLM Display at initial (dB)	SLM Display at final (dB)	Deviated Value (dB)	Acceptance Limits (dB)
A - weight	137.0	137.0	0.0	±0.3

The reported uncertainty is based on a standard uncertainty multiplied by coverage factor $k = 2$ or any value following calculation,providing a level of confidence of approximately 95 %

End of Calibration Certificate



SITHIPORN ASSOCIATES CO., LTD.
CALIBRATION LABORATORY

SITHIPORN associates

ilac-MRA

Cert. No. : ACL25411
Pages : 1 of 8

Calibration Certificate

Equipment : SOUND LEVEL METER
Manufacturer : RION
Model : NL-42 / Microphone UC-52 / Preamplifier NH-24
Serial No.: 00873109 / 171842 / 73485
ID No.: RYG_FS0384

Condition As Found : GOOD

Customer : ALS LABORATORY GROUP (THAILAND) CO., LTD.
104 PHATTHANAKAN 40, PHATTHANAKAN ROAD,
KHWAENG PHATTHANAKAN, KHET SUAN LUANG,
BANGKOK, 10250 THAILAND.

Location : -
Ambient Temperature : (23.0 ± 3) °C
Pressure : (101.3 ± 3) kPa
Relative Humidity : (50.0 ± 20) %

Received Date : 30 OCTOBER 2025
Calibration Date : 29 - 30 OCTOBER 2025
Date of Issue : 31 OCTOBER 2025

REVIEWED BY
APPROVED BY
NEXT CAL DATE 29/ 10/ 2026

Calibrated by : Nathakorn Pinutpaisan

Approved by :
(Nitinun Srihawan)

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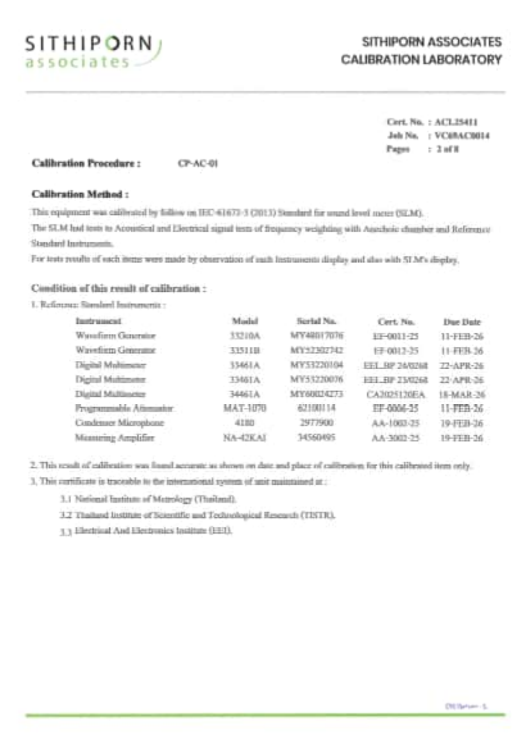


Cert. No. : ACL25411
Job No. : VC69AC0014
Pages : 2 of 8

Calibration Procedure : CP-AC-01

Calibration Method :

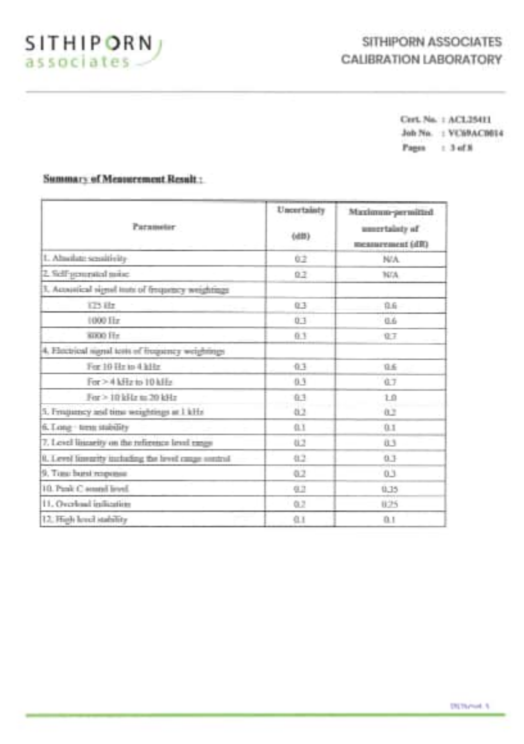
This equipment was calibrated by follow on IEC 61672-3 (2013) Standard for sound level meter (SLM).
The SLM had tests to Acoustical and Electrical signal tests of frequency weighting with Anechoic chamber and Reference Standard Instruments.
For tests results of each items were made by observation of each Instruments display and also with SLM's display.

Condition of this result of calibration :

1. Reference Standard Instruments :

Instrument	Model	Serial No.	Cert. No.	Due Date
Waveform Generator	33210A	MY48017076	EF-0011-25	11-FEB-26
Waveform Generator	33511B	MY52302742	EF-0012-25	11-FEB-26
Digital Multimeter	33461A	MY53220104	EEI_BP 24/0268	22-APR-26
Digital Multimeter	33461A	MY53220076	EEI_BP 23/0268	22-APR-26
Digital Multimeter	34461A	MY60024273	CA2025120EA	18-MAR-26
Programmable Attenuator	MAT-1070	62100114	EF-0006-25	11-FEB-26
Condenser Microphone	4180	2977900	AA-1002-25	19-FEB-26
Measuring Amplifier	NA-42KAI	34560495	AA-3002-25	19-FEB-26

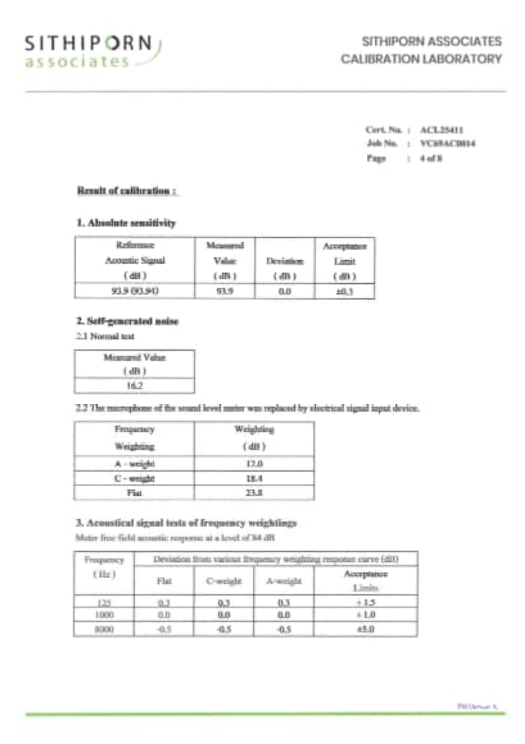
2. This result of calibration was found accurate as shown on date and place of calibration for this calibrated item only.
3. This certificate is traceable to the international system of unit maintained at :
   - 3.1 National Institute of Metrology (Thailand).
   - 3.2 Thailand Institute of Scientific and Technological Research (TISTR).
   - 3.3 Electrical And Electronics Institute (EEI).



Cert. No. : ACL25411
Job No. : VC69AC0014
Pages : 3 of 8

Summary of Measurement Result :

Parameter	Uncertainty (dB)	Maximum-permitted uncertainty of measurement (dB)
1. Absolute sensitivity	0.2	N/A
2. Self-generated noise	0.2	N/A
3. Acoustical signal tests of frequency weightings		
125 Hz	0.3	0.6
1000 Hz	0.3	0.6
8000 Hz	0.3	0.7
4. Electrical signal tests of frequency weightings		
For 10 Hz to 4 kHz	0.3	0.6
For > 4 kHz to 10 kHz	0.3	0.7
For > 10 kHz to 20 kHz	0.3	1.0
5. Frequency and time weightings at 1 kHz	0.2	0.2
6. Long - term stability	0.1	0.1
7. Level linearity on the reference level range	0.2	0.3
8. Level linearity including the level range control	0.2	0.3
9. Time burst response	0.2	0.3
10. Peak C sound level	0.2	0.35
11. Overload indication	0.2	0.25
12. High level stability	0.1	0.1



Cert. No. : ACL25411
Job No. : VC69AC0014
Page : 4 of 8

Result of calibration :

1. Absolute sensitivity

Reference Acoustic Signal (dB)	Measured Value (dB)	Deviation (dB)	Acceptance Limit (dB)
93.9 (93.94)	93.9	0.0	±0.3

2. Self-generated noise

2.1 Normal test

Measured Value (dB)
16.2

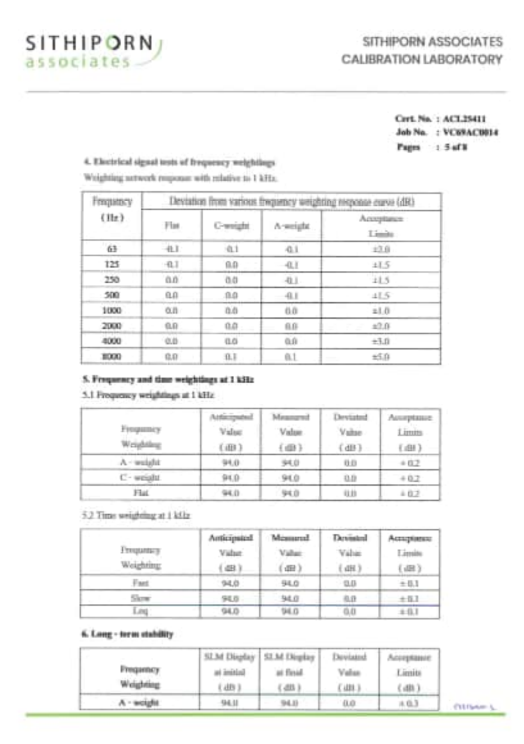
2.2 The microphone of the sound level meter was replaced by electrical signal input device.

Frequency Weighting	Weighting (dB)
A - weight	17.0
C - weight	18.4
Flat	23.8

3. Acoustical signal tests of frequency weightings

Meter free-field acoustic response at a level of 84 dB

Frequency (Hz)	Deviation from various frequency weighting response curve (dB)			
	Flat	C-weight	A-weight	Acceptance Limits
125	0.3	0.3	0.3	± 1.5
1000	0.0	0.0	0.0	± 1.0
8000	-0.5	-0.5	-0.5	±5.0



Cert. No. : ACL25411
Job No. : VC69AC0014
Pages : 5 of 8

4. Electrical signal tests of frequency weightings

Weighting network response with relative to 1 kHz.

Frequency (Hz)	Deviation from various frequency weighting response curve (dB)			
	Flat	C-weight	A-weight	Acceptance Limits
63	-0.1	0.1	-0.1	±2.0
125	-0.1	0.0	-0.1	±1.5
250	0.0	0.0	-0.1	±1.5
500	0.0	0.0	-0.1	±1.5
1000	0.0	0.0	0.0	±1.0
2000	0.0	0.0	0.0	±2.0
4000	0.0	0.0	0.0	±3.0
8000	0.0	0.1	0.1	±5.0

5. Frequency and time weightings at 1 kHz

5.1 Frequency weightings at 1 kHz

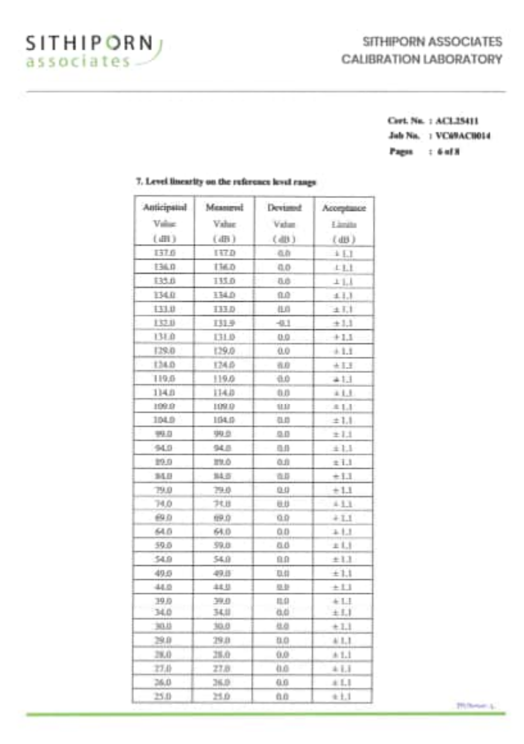
Frequency Weighting	Anticipated Value (dB)	Measured Value (dB)	Deviated Value (dB)	Acceptance Limits (dB)
A - weight	94.0	94.0	0.0	± 0.2
C - weight	94.0	94.0	0.0	± 0.2
Flat	94.0	94.0	0.0	± 0.2

5.2 Time weighting at 1 kHz

Frequency Weighting	Anticipated Value (dB)	Measured Value (dB)	Deviated Value (dB)	Acceptance Limits (dB)
Fast	94.0	94.0	0.0	± 0.1
Slow	94.0	94.0	0.0	± 0.1
Leq	94.0	94.0	0.0	± 0.1

6. Long - term stability

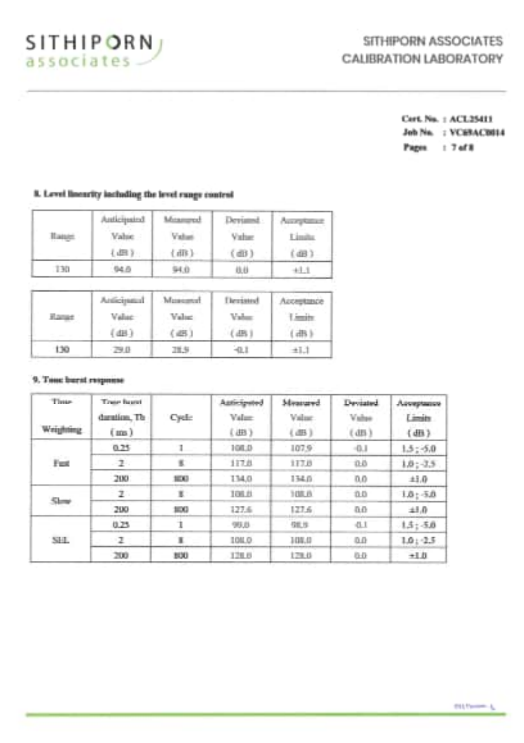
Frequency Weighting	SLM Display at initial (dB)	SLM Display at final (dB)	Deviated Value (dB)	Acceptance Limits (dB)
A - weight	94.0	94.0	0.0	± 0.3



Cert. No. : ACL25411
Job No. : VC69AC0014
Pages : 6 of 8

7. Level linearity on the reference level range

Anticipated Value (dB)	Measured Value (dB)	Deviated Value (dB)	Acceptance Limits (dB)
137.0	137.0	0.0	± 1.1
136.0	136.0	0.0	± 1.1
135.0	135.0	0.0	± 1.1
134.0	134.0	0.0	± 1.1
133.0	133.0	0.0	± 1.1
132.0	131.9	-0.1	± 1.1
131.0	131.0	0.0	± 1.1
129.0	129.0	0.0	± 1.1
124.0	124.0	0.0	± 1.1
119.0	119.0	0.0	± 1.1
114.0	114.0	0.0	± 1.1
109.0	109.0	0.0	± 1.1
104.0	104.0	0.0	± 1.1
99.0	99.0	0.0	± 1.1
94.0	94.0	0.0	± 1.1
89.0	89.0	0.0	± 1.1
84.0	84.0	0.0	± 1.1
79.0	79.0	0.0	± 1.1
74.0	74.0	0.0	± 1.1
69.0	69.0	0.0	± 1.1
64.0	64.0	0.0	± 1.1
59.0	59.0	0.0	± 1.1
54.0	54.0	0.0	± 1.1
49.0	49.0	0.0	± 1.1
44.0	44.0	0.0	± 1.1
39.0	39.0	0.0	± 1.1
34.0	34.0	0.0	± 1.1
30.0	30.0	0.0	± 1.1
29.0	29.0	0.0	± 1.1
28.0	28.0	0.0	± 1.1
27.0	27.0	0.0	± 1.1
26.0	26.0	0.0	± 1.1
25.0	25.0	0.0	± 1.1



Cert. No. : ACL25411
Job No. : VC69AC0014
Pages : 7 of 8

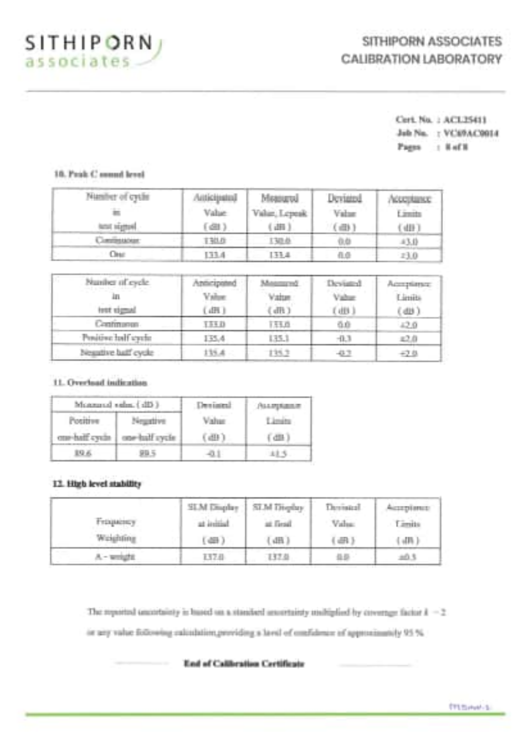
8. Level linearity including the level range control

Range	Anticipated Value (dB)	Measured Value (dB)	Deviated Value (dB)	Acceptance Limits (dB)
130	94.0	94.0	0.0	±1.1

Range	Anticipated Value (dB)	Measured Value (dB)	Deviated Value (dB)	Acceptance Limits (dB)
130	29.0	28.9	-0.1	±1.1

9. Tone burst response

Time Weighting	Tone burst duration, Th (ms)	Cycle	Anticipated Value (dB)	Measured Value (dB)	Deviated Value (dB)	Acceptance Limits (dB)
Fast	0.25	1	108.0	107.9	-0.1	1.5 ; -5.0
	2	8	117.0	117.0	0.0	1.0 ; -2.5
	200	800	134.0	134.0	0.0	±1.0
Slow	2	8	108.0	108.0	0.0	1.0 ; -5.0
	200	800	127.6	127.6	0.0	±1.0
SEL	0.25	1	99.0	98.9	-0.1	1.5 ; -5.0
	2	8	108.0	108.0	0.0	1.0 ; -2.5
	200	800	128.0	128.0	0.0	±1.0



Cert. No. : ACL25411
Job No. : VC69AC0014
Pages : 8 of 8

10. Peak C sound level

Number of cycle in test signal	Anticipated Value (dB)	Measured Value, Lcpeak (dB)	Deviated Value (dB)	Acceptance Limits (dB)
Continuous	130.0	130.0	0.0	±3.0
One	133.4	133.4	0.0	±3.0

Number of cycle in test signal	Anticipated Value (dB)	Measured Value (dB)	Deviated Value (dB)	Acceptance Limits (dB)
Continuous	133.0	133.0	0.0	±2.0
Positive half cycle	135.4	135.1	-0.3	±2.0
Negative half cycle	135.4	135.2	-0.2	±2.0

11. Overload indication

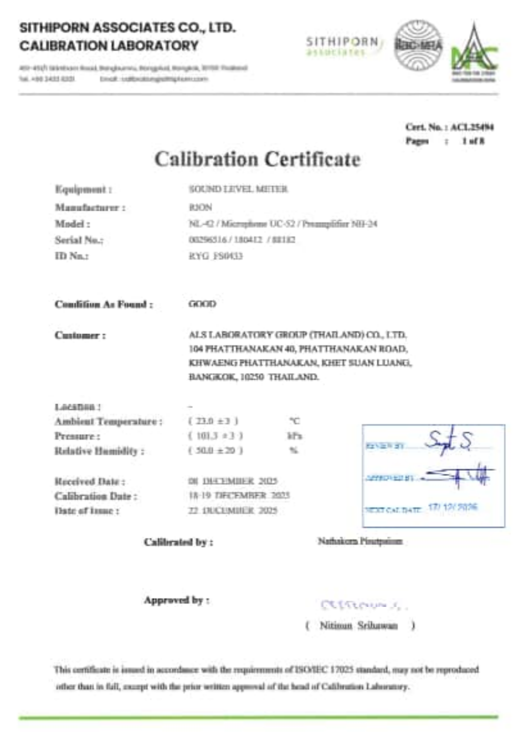
Measured value (dB)		Deviated Value (dB)	Acceptance Limits (dB)
Positive one-half cycle	Negative one-half cycle		
89.6	89.5	-0.1	±1.5

12. High level stability

Frequency Weighting	SLM Display at initial (dB)	SLM Display at final (dB)	Deviated Value (dB)	Acceptance Limits (dB)
A - weight	137.0	137.0	0.0	±0.3

The reported uncertainty is based on a standard uncertainty multiplied by coverage factor k = 2 or any value following calculation,providing a level of confidence of approximately 95 %.

End of Calibration Certificate



SITHIPORN ASSOCIATES CO., LTD.
CALIBRATION LABORATORY

Cert. No. : ACL25494
Pages : 1 of 8

Calibration Certificate

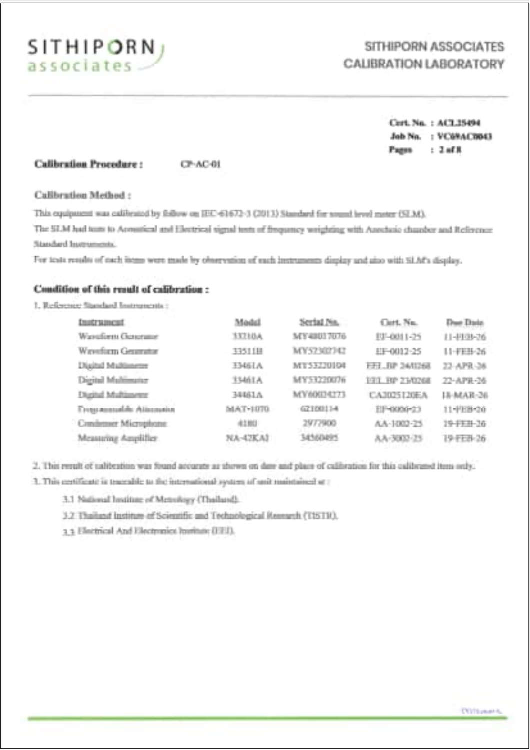
Equipment :	SOUND LEVEL METER
Manufacturer :	RION
Model :	NL-42 / Microphone UC-52 / Preamplifier NH-24
Serial No.:	00296516 / 180412 / 88182
ID No.:	RYG FS0433
Condition As Found :	GOOD
Customer :	ALS LABORATORY GROUP (THAILAND) CO., LTD. 104 PHATTHANAKAN 40, PHATTHANAKAN ROAD, KHWAENG PHATTHANAKAN, KHET SUAN LUANG, BANGKOK, 10250 THAILAND.
Location :	-
Ambient Temperature :	(23.0 ± 3) °C
Pressure :	(101.3 ± 3) kPa
Relative Humidity :	(50.0 ± 20) %
Received Date :	08 DECEMBER 2025
Calibration Date :	18-19 DECEMBER 2025
Date of Issue :	22 DECEMBER 2025

REVIEW BY Sgt S
APPROVED BY
NEXT CAL DATE 17/ 12/ 2026

Calibrated by : Nathakorn Pisutpaisan

Approved by :
(Nitinun Srihawan)

This certificate is issued in accordance with the requirements of ISO/IEC 17025 standard, may not be reproduced other than in full, except with the prior written approval of the head of Calibration Laboratory.



Cert. No. : ACL25494
Job No. : VC69AC0043
Pages : 2 of 8

Calibration Procedure : CP-AC-01

Calibration Method :

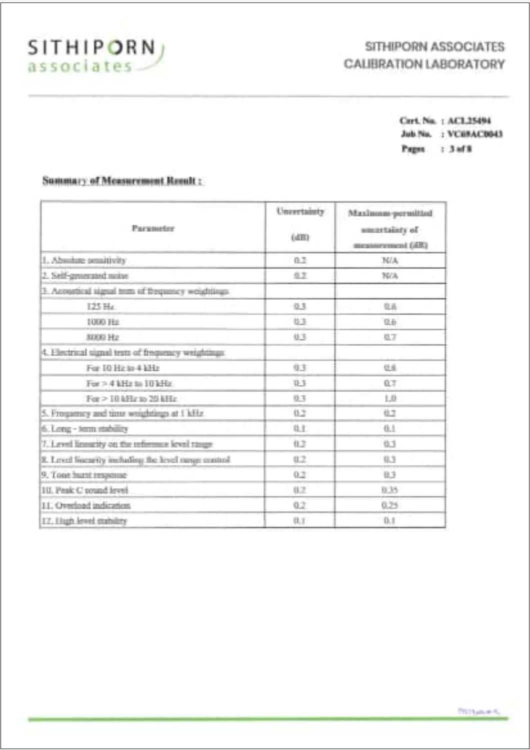
This equipment was calibrated by follow on IEC-61672-3 (2013) Standard for sound level meter (SLM).
The SLM had tests to Acoustical and Electrical signal tests of frequency weighting with Anechoic chamber and Reference Standard Instruments.
For tests results of each items were made by observation of each instruments display and also with SLM's display.

Condition of this result of calibration :

1. Reference Standard Instruments :

Instrument	Model	Serial No.	Cert. No.	Due Date
Waveform Generator	33210A	MY48017076	EF-0011-25	11-FEB-26
Waveform Generator	33511B	MY52302742	EF-0012-25	11-FEB-26
Digital Multimeter	33461A	MY53220104	EEI_BP 24/0268	22-APR-26
Digital Multimeter	33461A	MY53220076	EEI_BP 23/0268	22-APR-26
Digital Multimeter	34461A	MY60024273	CA2025120EA	18-MAR-26
Programmable Attenuator	MAT-1070	62100114	EF-0006-23	11-FEB-26
Condenser Microphone	4180	2977900	AA-1002-25	19-FEB-26
Measuring Amplifier	NA-42KAI	34560495	AA-3002-25	19-FEB-26

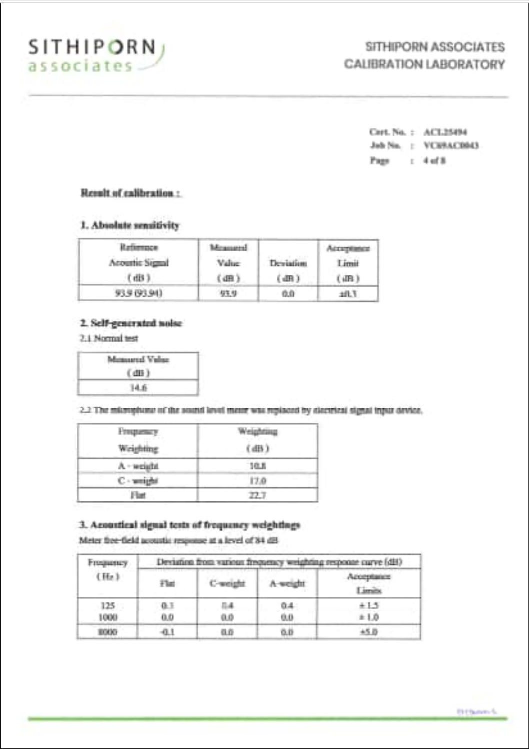
2. This result of calibration was found accurate as shown on date and place of calibration for this calibrated item only.
3. This certificate is traceable to the international system of unit maintained at :
   - 3.1 National Institute of Metrology (Thailand).
   - 3.2 Thailand Institute of Scientific and Technological Research (TISTR).
   - 3.3 Electrical And Electronics Institute (EEI).



Cert. No. : ACL25494
Job No. : VC69AC0043
Pages : 3 of 8

Summary of Measurement Result :

Parameter	Uncertainty (dB)	Maximum-permitted uncertainty of measurement (dB)
1. Absolute sensitivity	0.2	N/A
2. Self-generated noise	0.2	N/A
3. Acoustical signal tests of frequency weightings		
125 Hz	0.3	0.6
1000 Hz	0.3	0.6
8000 Hz	0.3	0.7
4. Electrical signal tests of frequency weightings		
For 10 Hz to 4 kHz	0.3	0.6
For > 4 kHz to 10 kHz	0.3	0.7
For > 10 kHz to 20 kHz	0.3	1.0
5. Frequency and time weightings at 1 kHz	0.2	0.2
6. Long - term stability	0.1	0.1
7. Level linearity on the reference level range	0.2	0.3
8. Level linearity including the level range control	0.2	0.3
9. Tone burst response	0.2	0.3
10. Peak C sound level	0.2	0.35
11. Overload indication	0.2	0.25
12. High level stability	0.1	0.1



Cert. No. : ACL25494
Job No. : VC69AC0043
Page : 4 of 8

Result of calibration :

1. Absolute sensitivity

Reference Acoustic Signal (dB)	Measured Value (dB)	Deviation (dB)	Acceptance Limit (dB)
93.9 (93.94)	93.9	0.0	±0.3

2. Self-generated noise

2.1 Normal test

Measured Value (dB)
14.6

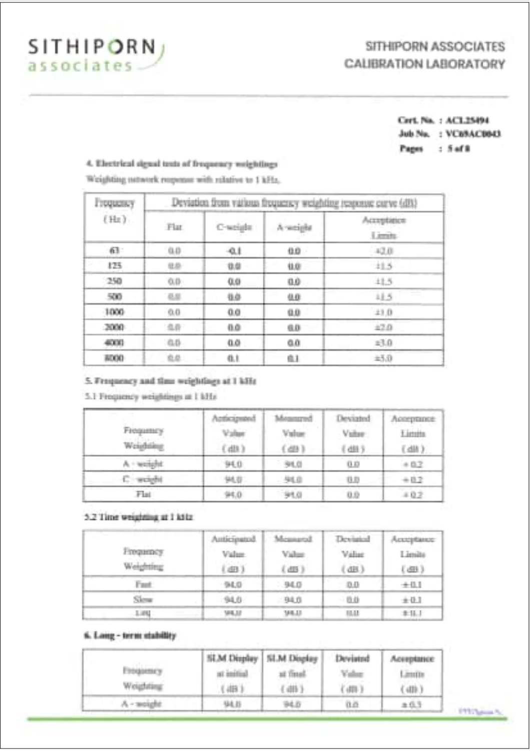
2.2 The microphone of the sound level meter was replaced by electrical signal input device.

Frequency Weighting	Weighting (dB)
A - weight	10.8
C - weight	17.0
Flat	22.7

3. Acoustical signal tests of frequency weightings

Meter free-field acoustic response at a level of 84 dB

Frequency (Hz)	Deviation from various frequency weighting response curve (dB)			
	Flat	C-weight	A-weight	Acceptance Limits
125	0.1	0.4	0.4	± 1.5
1000	0.0	0.0	0.0	± 1.0
8000	-0.1	0.0	0.0	+5.0



Cert. No. : ACL25494
Job No. : VC69AC0043
Pages : 5 of 8

4. Electrical signal tests of frequency weightings

Weighting network response with relative to 1 kHz.

Frequency (Hz)	Deviation from various frequency weighting response curve (dB)			
	Flat	C-weight	A-weight	Acceptance Limits
63	0.0	-0.1	0.0	±2.0
125	0.0	0.0	0.0	±1.5
250	0.0	0.0	0.0	±1.5
500	0.0	0.0	0.0	±1.5
1000	0.0	0.0	0.0	±1.0
2000	0.0	0.0	0.0	±2.0
4000	0.0	0.0	0.0	±3.0
8000	0.0	0.1	0.1	±5.0

5. Frequency and time weightings at 1 kHz

5.1 Frequency weightings at 1 kHz

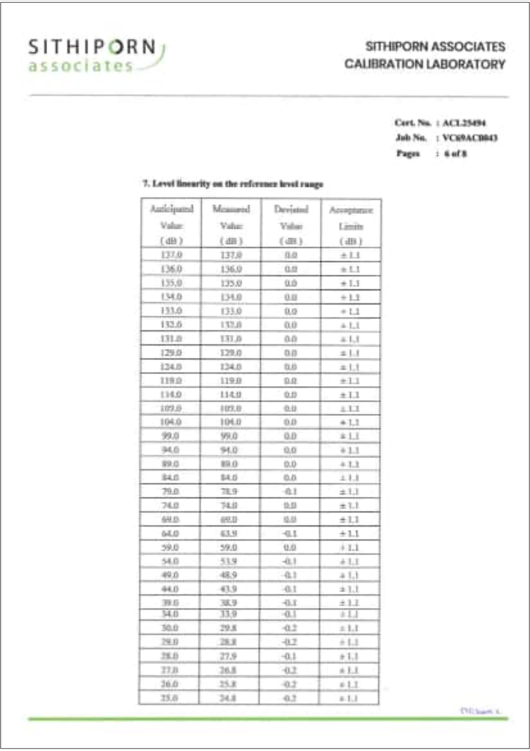
Frequency Weighting	Anticipated Value (dB)	Measured Value (dB)	Deviated Value (dB)	Acceptance Limits (dB)
A - weight	94.0	94.0	0.0	± 0.2
C - weight	94.0	94.0	0.0	± 0.2
Flat	94.0	94.0	0.0	± 0.2

5.2 Time weighting at 1 kHz

Frequency Weighting	Anticipated Value (dB)	Measured Value (dB)	Deviated Value (dB)	Acceptance Limits (dB)
Fast	94.0	94.0	0.0	± 0.1
Slow	94.0	94.0	0.0	± 0.1
Leq	94.0	94.0	0.0	± 0.1

6. Long - term stability

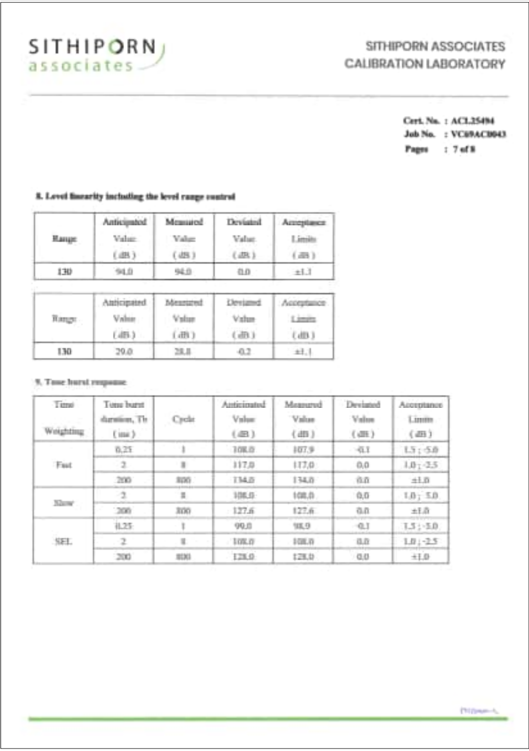
Frequency Weighting	SLM Display at initial (dB)	SLM Display at final (dB)	Deviated Value (dB)	Acceptance Limits (dB)
A - weight	94.0	94.0	0.0	± 0.3



Cert. No. : ACL25494
Job No. : VC69AC0043
Pages : 6 of 8

7. Level linearity on the reference level range

Anticipated Value (dB)	Measured Value (dB)	Deviated Value (dB)	Acceptance Limits (dB)
137.0	137.0	0.0	± 1.1
136.0	136.0	0.0	± 1.1
135.0	135.0	0.0	± 1.1
134.0	134.0	0.0	± 1.1
133.0	133.0	0.0	± 1.1
132.0	132.0	0.0	± 1.1
131.0	131.0	0.0	± 1.1
129.0	129.0	0.0	± 1.1
124.0	124.0	0.0	± 1.1
119.0	119.0	0.0	± 1.1
114.0	114.0	0.0	± 1.1
109.0	109.0	0.0	± 1.1
104.0	104.0	0.0	± 1.1
99.0	99.0	0.0	± 1.1
94.0	94.0	0.0	± 1.1
89.0	89.0	0.0	± 1.1
84.0	84.0	0.0	± 1.1
79.0	78.9	-0.1	± 1.1
74.0	74.0	0.0	± 1.1
69.0	69.0	0.0	± 1.1
64.0	63.9	-0.1	± 1.1
59.0	59.0	0.0	± 1.1
54.0	53.9	-0.1	± 1.1
49.0	48.9	-0.1	± 1.1
44.0	43.9	-0.1	± 1.1
39.0	38.9	-0.1	± 1.1
34.0	33.9	-0.1	± 1.1
30.0	29.8	-0.2	± 1.1
29.0	28.8	-0.2	± 1.1
28.0	27.9	-0.1	± 1.1
27.0	26.8	-0.2	± 1.1
26.0	25.8	-0.2	± 1.1
25.0	24.8	-0.2	± 1.1



Cert. No. : ACL25494
Job No. : VC69AC0043
Pages : 7 of 8

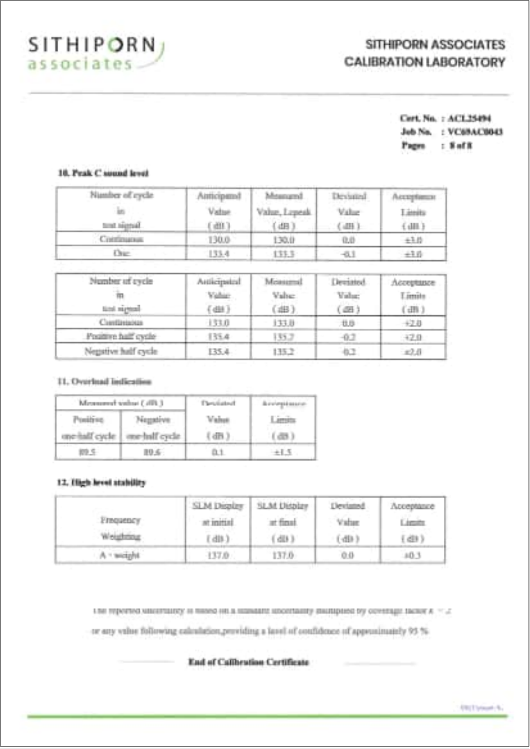
8. Level linearity including the level range control

Range	Anticipated Value (dB)	Measured Value (dB)	Deviated Value (dB)	Acceptance Limits (dB)
130	94.0	94.0	0.0	±1.1

Range	Anticipated Value (dB)	Measured Value (dB)	Deviated Value (dB)	Acceptance Limits (dB)
130	29.0	28.8	-0.2	±1.1

9. Tone burst response

Time Weighting	Tone burst duration, Th (ms)	Cycle	Anticipated Value (dB)	Measured Value (dB)	Deviated Value (dB)	Acceptance Limits (dB)
Fast	0.25	1	108.0	107.9	-0.1	1.5 ; -5.0
	2	8	117.0	117.0	0.0	1.0 ; -2.5
	200	800	134.0	134.0	0.0	±1.0
Slow	2	8	108.0	108.0	0.0	1.0 ; 5.0
	200	800	127.6	127.6	0.0	±1.0
SEL	0.25	1	99.0	98.9	-0.1	1.5 ; -5.0
	2	8	108.0	108.0	0.0	1.0 ; -2.5
	200	800	128.0	128.0	0.0	±1.0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Cert. No. : ACL25494
Job No. : VC69AC0043
Pages : 8 of 8

10. Peak C sound level

Number of cycle in test signal	Anticipated Value (dB)	Measured Value, Lcpeak (dB)	Deviated Value (dB)	Acceptance Limits (dB)
Continuous	130.0	130.0	0.0	±3.0
One	133.4	133.3	-0.1	±3.0

Number of cycle in test signal	Anticipated Value (dB)	Measured Value (dB)	Deviated Value (dB)	Acceptance Limits (dB)
Continuous	133.0	133.0	0.0	±2.0
Positive half cycle	135.4	135.2	-0.2	±2.0
Negative half cycle	135.4	135.2	0.2	±2.0

11. Overload indication

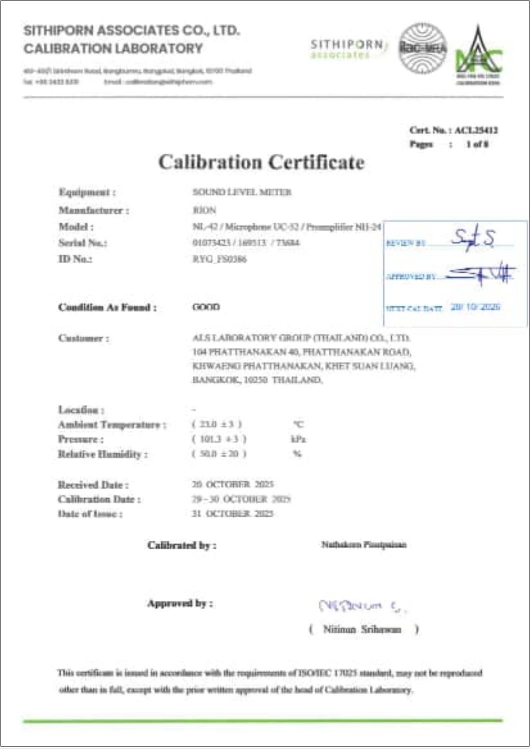
Measured value (dB)		Deviated Value (dB)	Acceptance Limits (dB)
Positive one-half cycle	Negative one-half cycle		
89.5	89.6	0.1	±1.5

12. High level stability

Frequency Weighting	SLM Display at initial (dB)	SLM Display at final (dB)	Deviated Value (dB)	Acceptance Limits (dB)
A - weight	137.0	137.0	0.0	±0.3

The reported uncertainty is based on a standard uncertainty multiplied by coverage factor k = 2
or any value following calculation,providing a level of confidence of approximately 95 %

End of Calibration Certificate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Cert. No. : ACL25412
Pages : 1 of 8

Calibration Certificate

Equipment :	SOUND LEVEL METER
Manufacturer :	RION
Model :	NL-42 / Microphone UC-52 / Preamplifier NH-24
Serial No.:	01073423 / 169513 / 73684
ID No.:	RYG_FS0386
Condition As Found :	GOOD

REVIEW BY Sts
APPROVED BY
NEXT CAL DATE 28/10/2026

Customer : ALS LABORATORY GROUP (THAILAND) CO., LTD.
104 PHATTHANAKAN 40, PHATTHANAKAN ROAD,
KHWAENG PHATTHANAKAN, KHET SUAN LUANG,
BANGKOK, 10250 THAILAND.

Location :	-	
Ambient Temperature :	(23.0 ± 3)	°C
Pressure :	(101.3 ± 3)	kPa
Relative Humidity :	(50.0 ± 20)	%

Received Date :	20 OCTOBER 2025
Calibration Date :	29 – 30 OCTOBER 2025
Date of Issue :	31 OCTOBER 2025

Calibrated by : Nathakorn Pimipaisan

Approved by :
(Nitinun Srihawan)

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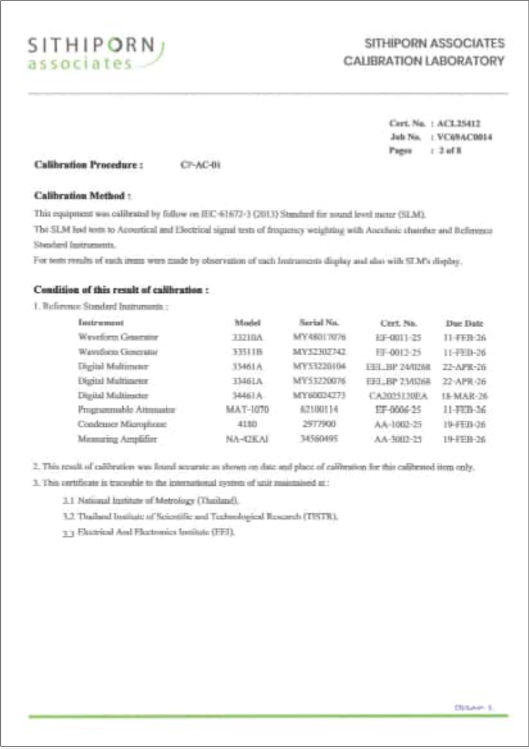
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CALIBRATION LABORATORY

Cert. No. : ACL25412
Job No. : VC69AC0014
Pages : 2 of 8

Calibration Procedure : CP-AC-01

Calibration Method :

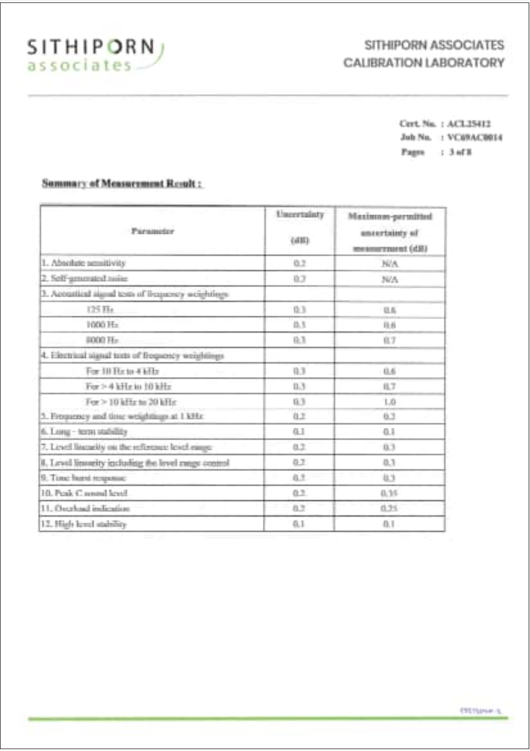
This equipment was calibrated by follow on IEC 61672-3 (2013) Standard for sound level meter (SLM).
The SLM had tests to Acoustical and Electrical signal tests of frequency weighting with Anechoic chamber and Reference Standard Instruments.
For tests results of each items were made by observation of each Instruments display and also with SLM's display.

Condition of this result of calibration :

1. Reference Standard Instruments :

Instrument	Model	Serial No.	Cert. No.	Due Date
Waveform Generator	33210A	MY48017076	EF-0011-25	11-FEB-26
Waveform Generator	33511B	MY52302742	EF-0012-25	11-FEB-26
Digital Multimeter	33461A	MY53220104	EEI_BP 24/0268	22-APR-26
Digital Multimeter	33461A	MY53220076	EEI_BP 23/0268	22-APR-26
Digital Multimeter	34461A	MY60024273	CA2025120EA	18-MAR-26
Programmable Attenuator	MAT-1070	82100114	EF-0006-25	11-FEB-26
Condenser Microphone	4180	2977900	AA-1002-25	19-FEB-26
Measuring Amplifier	NA-42KAI	34560495	AA-3002-25	19-FEB-26

2. This result of calibration was found accurate as shown on date and place of calibration for this calibrated item only.
3. This certificate is traceable to the international system of unit maintained at :
   - 3.1 National Institute of Metrology (Thailand).
   - 3.2 Thailand Institute of Scientific and Technological Research (TISTR).
   - 3.3 Electrical And Electronics Institute (EEI).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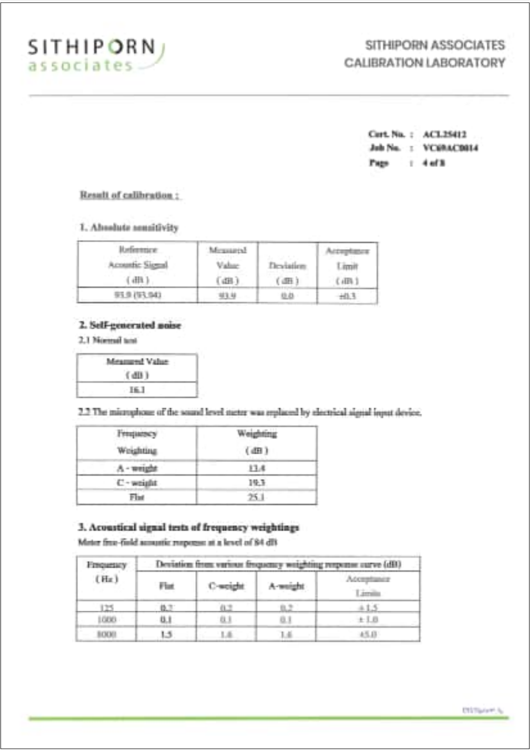
CALIBRATION LABORATORY

Cert. No. : ACL25412
Job No. : VC69AC0014
Pages : 3 of 8

Summary of Measurement Result :

Parameter	Uncertainty (dB)	Maximum-permitted uncertainty of measurement (dB)
1. Absolute sensitivity	0.2	N/A
2. Self-generated noise	0.2	N/A
3. Acoustical signal tests of frequency weightings		
125 Hz	0.3	0.6
1000 Hz	0.3	0.6
8000 Hz	0.3	0.7
4. Electrical signal tests of frequency weightings		
For 10 Hz to 4 kHz	0.3	0.6
For > 4 kHz to 10 kHz	0.3	0.7
For > 10 kHz to 20 kHz	0.3	1.0
5. Frequency and time weightings at 1 kHz	0.2	0.2
6. Long - term stability	0.1	0.1
7. Level linearity on the reference level range	0.2	0.3
8. Level linearity including the level range control	0.2	0.3
9. Tone burst response	0.2	0.3
10. Peak C sound level	0.2	0.35
11. Overload indication	0.2	0.25
12. High level stability	0.1	0.1


SITHIPORN ASSOCIATES
CALIBRATION LABORATORY

Cert. No. : ACL25412
Job No. : VC69AC0014
Page : 4 of 8

Result of calibration :

1. Absolute sensitivity

Reference Acoustic Signal (dB)	Measured Value (dB)	Deviation (dB)	Acceptance Limit (dB)
93.9 (93.94)	93.9	0.0	±0.3

2. Self-generated noise

2.1 Normal test

Measured Value (dB)
16.1

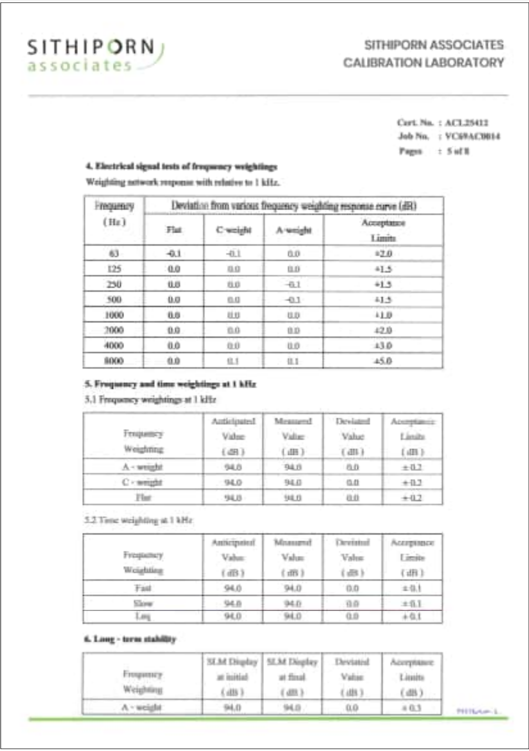
2.2 The microphone of the sound level meter was replaced by electrical signal input device.

Frequency Weighting	Weighting (dB)
A - weight	13.4
C - weight	19.3
Flat	25.1

3. Acoustical signal tests of frequency weightings

Meter free-field acoustic response at a level of 84 dB

Frequency (Hz)	Deviation from various frequency weighting response curve (dB)			
	Flat	C-weight	A-weight	Acceptance Limits
125	0.2	0.2	0.2	± 1.5
1000	0.1	0.1	0.1	± 1.0
8000	1.5	1.6	1.6	±5.0


SITHIPORN ASSOCIATES
CALIBRATION LABORATORY

Cert. No. : ACL25412
Job No. : VC69AC0014
Pages : 5 of 8

4. Electrical signal tests of frequency weightings

Weighting network response with relative to 1 kHz.

Frequency (Hz)	Deviation from various frequency weighting response curve (dB)			
	Flat	C-weight	A-weight	Acceptance Limits
63	-0.1	-0.1	0.0	±2.0
125	0.0	0.0	0.0	±1.5
250	0.0	0.0	-0.1	±1.5
500	0.0	0.0	-0.1	±1.5
1000	0.0	0.0	0.0	±1.0
2000	0.0	0.0	0.0	±2.0
4000	0.0	0.0	0.0	±3.0
8000	0.0	0.1	0.1	±5.0

5. Frequency and time weightings at 1 kHz

5.1 Frequency weightings at 1 kHz

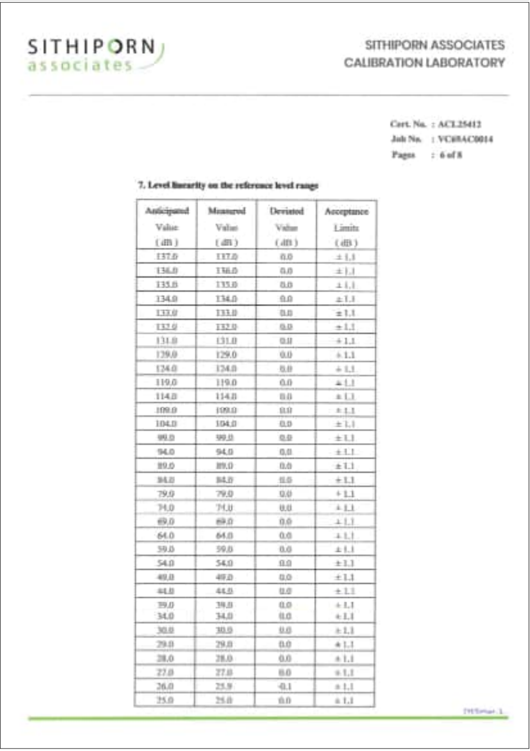
Frequency Weighting	Anticipated Value (dB)	Measured Value (dB)	Deviated Value (dB)	Acceptance Limits (dB)
A - weight	94.0	94.0	0.0	± 0.2
C - weight	94.0	94.0	0.0	± 0.2
Flat	94.0	94.0	0.0	± 0.2

5.2 Time weighting at 1 kHz

Frequency Weighting	Anticipated Value (dB)	Measured Value (dB)	Deviated Value (dB)	Acceptance Limits (dB)
Fast	94.0	94.0	0.0	± 0.1
Slow	94.0	94.0	0.0	± 0.1
Leq	94.0	94.0	0.0	± 0.1

6. Long - term stability

Frequency Weighting	SLM Display at initial (dB)	SLM Display at final (dB)	Deviated Value (dB)	Acceptance Limits (dB)
A - weight	94.0	94.0	0.0	± 0.3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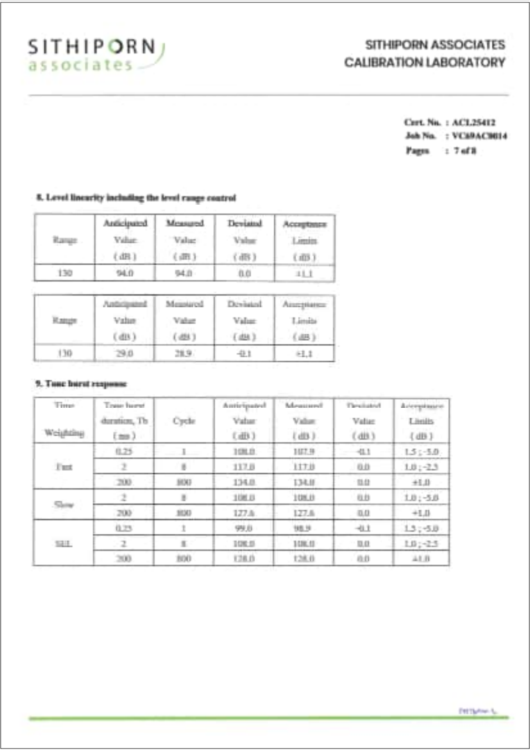
CALIBRATION LABORATORY

Cert. No. : ACL25412
Job No. : VC69AC0014
Pages : 6 of 8

7. Level linearity on the reference level range

Anticipated Value (dB)	Measured Value (dB)	Deviated Value (dB)	Acceptance Limits (dB)
137.0	137.0	0.0	± 1.1
136.0	136.0	0.0	± 1.1
135.0	135.0	0.0	± 1.1
134.0	134.0	0.0	± 1.1
133.0	133.0	0.0	± 1.1
132.0	132.0	0.0	± 1.1
131.0	131.0	0.0	± 1.1
129.0	129.0	0.0	± 1.1
124.0	124.0	0.0	± 1.1
119.0	119.0	0.0	± 1.1
114.0	114.0	0.0	± 1.1
109.0	109.0	0.0	± 1.1
104.0	104.0	0.0	± 1.1
99.0	99.0	0.0	± 1.1
94.0	94.0	0.0	± 1.1
89.0	89.0	0.0	± 1.1
84.0	84.0	0.0	± 1.1
79.0	79.0	0.0	± 1.1
74.0	74.0	0.0	± 1.1
69.0	69.0	0.0	± 1.1
64.0	64.0	0.0	± 1.1
59.0	59.0	0.0	± 1.1
54.0	54.0	0.0	± 1.1
49.0	49.0	0.0	± 1.1
44.0	44.0	0.0	± 1.1
39.0	39.0	0.0	± 1.1
34.0	34.0	0.0	± 1.1
30.0	30.0	0.0	± 1.1
29.0	29.0	0.0	± 1.1
28.0	28.0	0.0	± 1.1
27.0	27.0	0.0	± 1.1
26.0	25.9	-0.1	± 1.1
25.0	25.0	0.0	± 1.1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CALIBRATION LABORATORY

Cert. No. : ACL25412
Job No. : VC69AC0014
Pages : 7 of 8

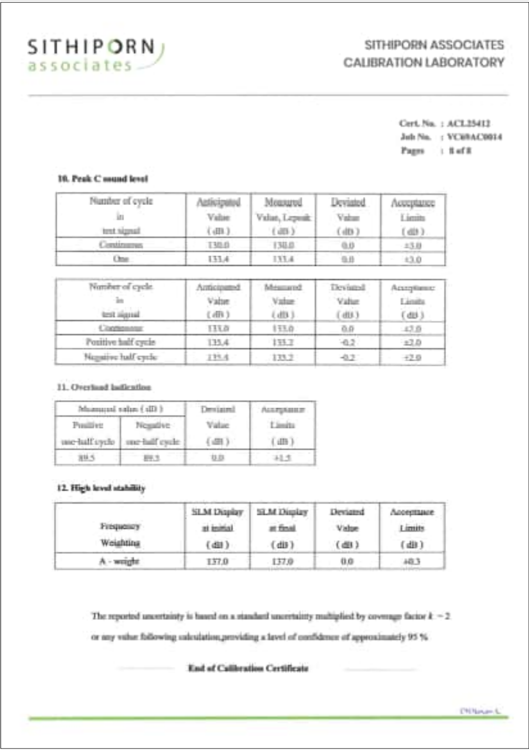
8. Level linearity including the level range control

Range	Anticipated Value (dB)	Measured Value (dB)	Deviated Value (dB)	Acceptance Limits (dB)
130	94.0	94.0	0.0	±1.1

Range	Anticipated Value (dB)	Measured Value (dB)	Deviated Value (dB)	Acceptance Limits (dB)
130	29.0	28.9	-0.1	±1.1

9. Tone burst response

Time Weighting	Tone burst duration, Tb (ms)	Cycle	Anticipated Value (dB)	Measured Value (dB)	Deviated Value (dB)	Acceptance Limits (dB)
Fast	0.25	1	108.0	107.9	-0.1	1.5 ; -5.0
	2	8	117.0	117.0	0.0	1.0 ; -2.5
	200	800	134.0	134.0	0.0	±1.0
Slow	2	8	108.0	108.0	0.0	1.0 ; -5.0
	200	800	127.6	127.6	0.0	±1.0
SEL	0.25	1	99.0	98.9	-0.1	1.5 ; -5.0
	2	8	108.0	108.0	0.0	1.0 ; -2.5
	200	800	128.0	128.0	0.0	±1.0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CALIBRATION LABORATORY

Cert. No. : ACL25412
Job No. : VC69AC0014
Pages : 8 of 8

10. Peak C sound level

Number of cycle in test signal	Anticipated Value (dB)	Measured Value, Lcpeak (dB)	Deviated Value (dB)	Acceptance Limits (dB)
Continuous	130.0	130.0	0.0	±3.0
One	133.4	133.4	0.0	±3.0

Number of cycle in test signal	Anticipated Value (dB)	Measured Value (dB)	Deviated Value (dB)	Acceptance Limits (dB)
Continuous	133.0	133.0	0.0	±2.0
Positive half cycle	135.4	135.2	-0.2	±2.0
Negative half cycle	135.4	135.2	-0.2	±2.0

11. Overload indication

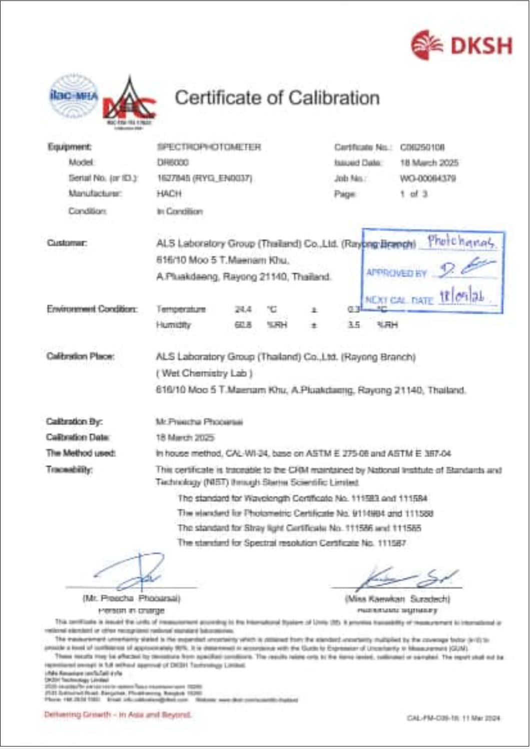
Measured value (dB)		Deviated Value (dB)	Acceptance Limits (dB)
Positive one-half cycle	Negative one-half cycle		
89.5	89.5	0.0	±1.5

12. High level stability

Frequency Weighting	SLM Display at initial (dB)	SLM Display at final (dB)	Deviated Value (dB)	Acceptance Limits (dB)
A - weight	137.0	137.0	0.0	±0.3

The reported uncertainty is based on a standard uncertainty multiplied by coverage factor k = 2
or any value following calculation,providing a level of confidence of approximately 95 %

End of Calibration Certificate



DKSH

Certificate of Calibration

Equipment: SPECTROPHOTOMETER
Model: DR6000
Serial No. (or ID.): 1627845 (RYG_EN0037)
Manufacturer: HACH
Condition: In Condition

Certificate No.: C06250108
Issued Date: 18 March 2025
Job No.: WO-00064379
Page: 1 of 3

Customer: ALS Laboratory Group (Thailand) Co.,Ltd. (Rayong Branch)
616/10 Moo 5 T.Maenam Khu,
A.Pluakdaeng, Rayong 21140, Thailand.

REVIEW BY Photchanas.
APPROVED BY
NEXT CAL. DATE 18/03/26

Environment Condition: Temperature 24.4 °C ± 0.3 °C
Humidity 60.8 %RH ± 3.5 %RH

Calibration Place: ALS Laboratory Group (Thailand) Co.,Ltd. (Rayong Branch)
(Wet Chemistry Lab)
616/10 Moo 5 T.Maenam Khu, A.Pluakdaeng, Rayong 21140, Thailand.

Calibration By: Mr.Preecha Phoorsai
Calibration Date: 18 March 2025
The Method used: In house method, CAL-WI-24, base on ASTM E 275-08 and ASTM E 387-04
Traceability: This certificate is traceable to the CRM maintained by National Institute of Standards and Technology (NIST) through Starna Scientific Limited.
The standard for Wavelength Certificate No. 111583 and 111584
The standard for Photometric Certificate No. 9114984 and 111588
The standard for Stray light Certificate No. 111586 and 111585
The standard for Spectral resolution Certificate No. 111587

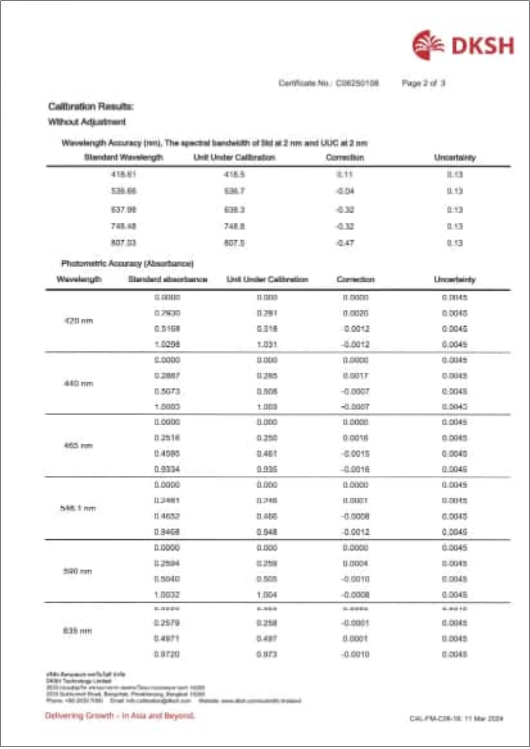
(Mr. Preecha Phoorsai)
Person in charge

(Miss Kaewkan Suradech)
Authorized signatory

This certificate is issued the units of measurement according to the International System of Units (SI). It provides traceability of measurement to international or national standard or other recognized national standard laboratories.
The measurement uncertainty stated is the expanded uncertainty which is obtained from the standard uncertainty multiplied by the coverage factor (k=2) to provide a level of confidence of approximately 95%. It is determined in accordance with the Guide to Expression of Uncertainty in Measurement (GUM).
These results may be affected by deviations from specified conditions. The results relate only to the items tested, calibrated or sampled. The report shall not be reproduced except in full without approval of DKSH Technology Limited.

Delivering Growth – in Asia and Beyond.

CAL-FM-C06-16: 11 Mar 2024



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Certificate No.: C06250108 Page 2 of 3

Calibration Results:
Without Adjustment

Wavelength Accuracy (nm), The spectral bandwidth of Std at 2 nm and UUC at 2 nm

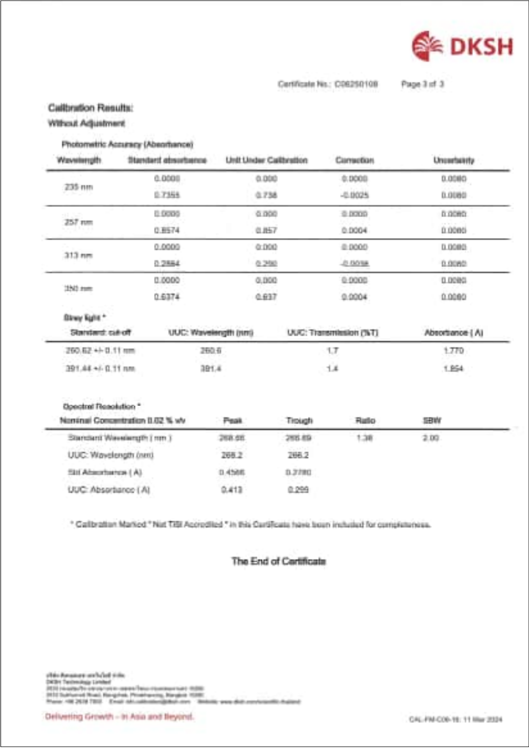
Standard Wavelength	Unit Under Calibration	Correction	Uncertainty
418.61	418.5	0.11	0.13
536.66	536.7	-0.04	0.13
637.98	638.3	-0.32	0.13
748.48	748.8	-0.32	0.13
807.03	807.5	-0.47	0.13

Photometric Accuracy (Absorbance)

Wavelength	Standard absorbance	Unit Under Calibration	Correction	Uncertainty
420 nm	0.0000	0.000	0.0000	0.0045
	0.2630	0.261	0.0020	0.0045
	0.5168	0.518	-0.0012	0.0045
	1.0298	1.031	-0.0012	0.0045
440 nm	0.0000	0.000	0.0000	0.0045
	0.2867	0.285	0.0017	0.0045
	0.5073	0.508	-0.0007	0.0045
	1.0003	1.003	-0.0027	0.0043
465 nm	0.0000	0.000	0.0000	0.0045
	0.2516	0.250	0.0016	0.0045
	0.4595	0.461	-0.0015	0.0045
	0.9334	0.935	-0.0016	0.0045
546.1 nm	0.0000	0.000	0.0000	0.0045
	0.2481	0.248	0.0001	0.0045
	0.4652	0.466	-0.0008	0.0045
	0.9468	0.948	-0.0012	0.0045
590 nm	0.0000	0.000	0.0000	0.0045
	0.2594	0.259	0.0004	0.0045
	0.5040	0.505	-0.0010	0.0045
	1.0032	1.004	-0.0008	0.0045
635 nm	0.0000	0.000	0.0000	0.0045
	0.2579	0.258	-0.0001	0.0045
	0.4971	0.497	0.0001	0.0045
	0.9720	0.973	-0.0010	0.0045

Delivering Growth – in Asia and Beyond.

CAL-FM-C06-16: 11 Mar 2024



DKSH

Certificate No.: C06250108 Page 3 of 3

Calibration Results:
Without Adjustment

Photometric Accuracy (Absorbance)

Wavelength	Standard absorbance	Unit Under Calibration	Correction	Uncertainty
235 nm	0.0000	0.000	0.0000	0.0080
	0.7355	0.738	-0.0025	0.0080
257 nm	0.0000	0.000	0.0000	0.0080
	0.8574	0.857	0.0004	0.0080
313 nm	0.0000	0.000	0.0000	0.0080
	0.2864	0.290	-0.0036	0.0080
350 nm	0.0000	0.000	0.0000	0.0080
	0.6374	0.637	0.0004	0.0080

Stray light *

Standard: cut-off	UUC: Wavelength (nm)	UUC: Transmission (%T)	Absorbance (A)
260.62 +/- 0.11 nm	260.6	1.7	1.770
391.44 +/- 0.11 nm	391.4	1.4	1.854

Spectral Resolution *

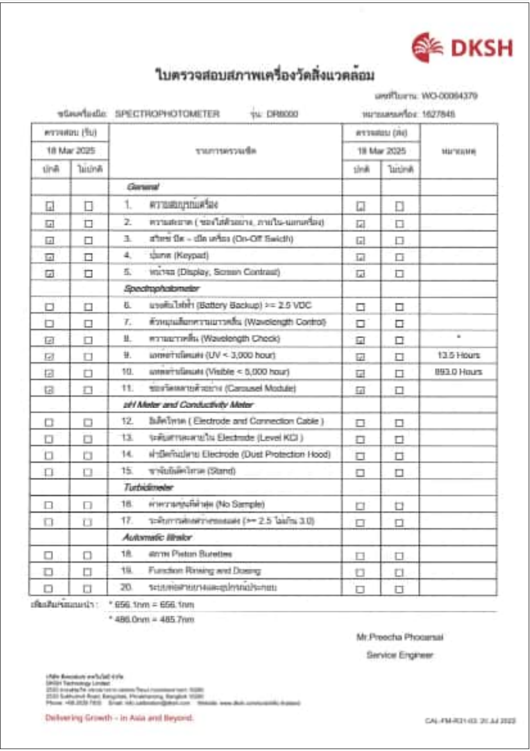
Nominal Concentration 0.02 % w/v	Peak	Trough	Ratio	SBW
Standard Wavelength (nm)	268.66	266.69	1.38	2.00
UUC: Wavelength (nm)	268.2	266.2		
Std Absorbance (A)	0.4566	0.2780		
UUC: Absorbance (A)	0.413	0.299		

* Calibration Marked " Not TISI Accredited " in this Certificate have been included for completeness.

The End of Certificate

Delivering Growth – in Asia and Beyond.

CAL-FM-C06-16: 11 Mar 2024



DKSH

ใบตรวจสอบสภาพเครื่องวัดสิ่งแวดล้อม

เลขที่ใบงาน: WO-00064379

ชนิดเครื่องมือ: SPECTROPHOTOMETER รุ่น: DR6000 หมายเลขเครื่อง: 1627845

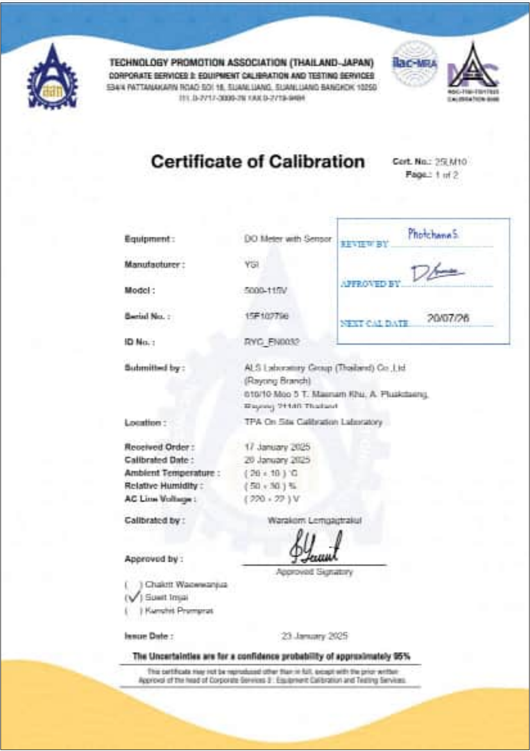
ตรวจสอบ (รับ)		รายการตรวจเช็ค	ตรวจสอบ (ส่ง)		หมายเหตุ
18 Mar 2025			18 Mar 2025		
ปกติ	ไม่ปกติ		ปกติ	ไม่ปกติ	
		General			
☑	☐	1. ความสมบูรณ์เครื่อง	☑	☐	
☑	☐	2. ความสะอาด (ช่องใส่ตัวอย่าง, ภายใน-นอกเครื่อง)	☑	☐	
☑	☐	3. สวิตซ์ ปิด - เปิด เครื่อง (On-Off Switch)	☑	☐	
☑	☐	4. ปุ่มกด (Keypad)	☑	☐	
☑	☐	5. หน้าจอ (Display, Screen Contrast)	☑	☐	
		Spectrophotometer			
☐	☐	6. แรงดันไฟฟ้า (Battery Backup) >= 2.5 VDC	☐	☐	
☐	☐	7. ตัวหมุนเลือกความยาวคลื่น (Wavelength Control)	☐	☐	
☑	☐	8. ความยาวคลื่น (Wavelength Check)	☑	☐	*
☑	☐	9. แหล่งกำเนิดแสง (UV < 3,000 hour)	☑	☐	13.5 Hours
☑	☐	10. แหล่งกำเนิดแสง (Visible < 5,000 hour)	☑	☐	893.0 Hours
☑	☐	11. ช่องวัดหลายตัวอย่าง (Carousel Module)	☑	☐	
		pH Meter and Conductivity Meter			
☐	☐	12. อิเล็คโทรด (Electrode and Connection Cable)	☐	☐	
☐	☐	13. ระดับสารละลายใน Electrode (Level KCl)	☐	☐	
☐	☐	14. ฝาปิดกันฝุ่นปลาย Electrode (Dust Protection Hood)	☐	☐	
☐	☐	15. ขาจับอิเล็คโทรด (Stand)	☐	☐	
		Turbidimeter			
☐	☐	16. ค่าความขุ่นต่ำสุด (No Sample)	☐	☐	
☐	☐	17. ระดับการส่องสว่างของแสง (>= 2.5 ไม่เกิน 3.0)	☐	☐	
		Automatic titrator			
☐	☐	18. สภาพ Piston Burettes	☐	☐	
☐	☐	19. Function Rinsing and Dosing	☐	☐	
☐	☐	20. ระบบท่อสายยางและอุปกรณ์ประกอบ	☐	☐	

เพิ่มเติมข้อแนะนำ : * 656.1nm = 656.1nm
* 486.0nm = 485.7nm

Mr.Preecha Phoorsai
Service Engineer

Delivering Growth – in Asia and Beyond.

CAL-FM-R31-03: 20 Jul 2023



TECHNOLOGY PROMOTION ASSOCIATION (THAILAND-JAPAN)
CORPORATE SERVICES 3: EQUIPMENT CALIBRATION AND TESTING SERVICES
534/4 PATTANAKARN ROAD SOI 18, SUANLUANG, SUANLUANG BANGKOK 10250
TEL 0-2717-3000-29 FAX 0-2719-9484

Certificate of Calibration

Cert. No.: 25LM10
Page.: 1 of 2

Equipment : DO Meter with Sensor
Manufacturer : YSI
Model : 5000-115V
Serial No. : 15F102796
ID No. : RYG_EN0032

REVIEW BY Photchana S.
APPROVED BY
NEXT CAL DATE 20/07/26

Submitted by : ALS Laboratory Group (Thailand) Co.,Ltd.
(Rayong Branch)
616/10 Moo 5 T. Maenam Khu, A. Pluakdaeng,
Rayong 21140 Thailand

Location : TPA On Site Calibration Laboratory

Received Order : 17 January 2025
Calibrated Date : 20 January 2025
Ambient Temperature : (26 ± 10) °C
Relative Humidity : (50 ± 30) %
AC Line Voltage : (220 ± 22) V

Calibrated by : Warakorn Lengagtrakul

Approved by :
Approved Signatory

( ) Chakrit Waewwanjua
(✓) Suwit Imjai
( ) Kunchit Prompraj

Issue Date : 23 January 2025

The Uncertainties are for a confidence probability of approximately 95%

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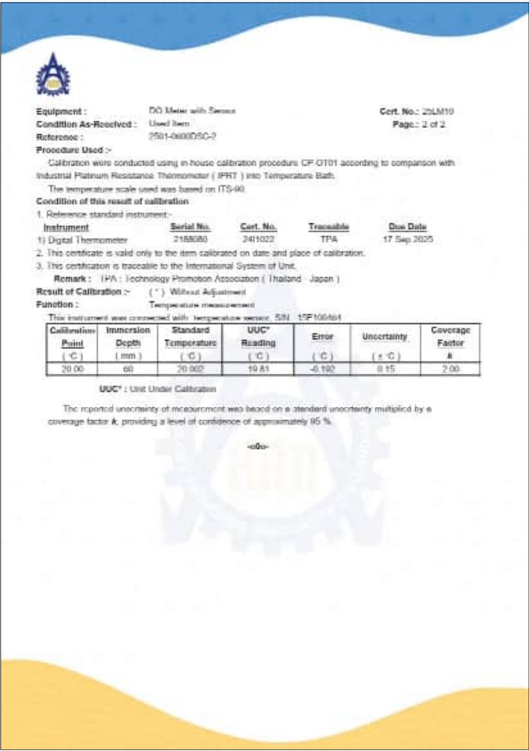

Equipment : DO Meter with Sensor
Condition As-Received : Used Item
Reference : 2501-0400DSC-2

Cert. No.: 25LM10
Page.: 2 of 2

Procedure Used :-
Calibration were conducted using in-house calibration procedure CP-OT01 according to comparison with Industrial Platinum Resistance Thermometer (IPRT) into Temperature Bath.
The temperature scale used was based on ITS-90.

Condition of this result of calibration
1. Reference standard instrument:-

Instrument	Serial No.	Cert. No.	Traceable	Due Date
1) Digital Thermometer	2168080	24I1022	TPA	17 Sep 2025

2. This certificate is valid only to the item calibrated on date and place of calibration.
3. This certification is traceable to the International System of Unit.

Remark : TPA : Technology Promotion Association (Thailand - Japan)

Result of Calibration :- (*) Without Adjustment
Function : Temperature measurement

This instrument was connected with temperature sensor, S/N 15F100464

Calibration Point (°C)	Immersion Depth (mm)	Standard Temperature (°C)	UUC* Reading (°C)	Error (°C)	Uncertainty (± °C)	Coverage Factor k
20.00	60	20.002	19.81	-0.192	0.15	2.00

UUC* : Unit Under Calibration

The reported uncertainty of measurement was based on a standard uncertainty multiplied by a coverage factor *k*, providing a level of confidence of approximately 95 %.

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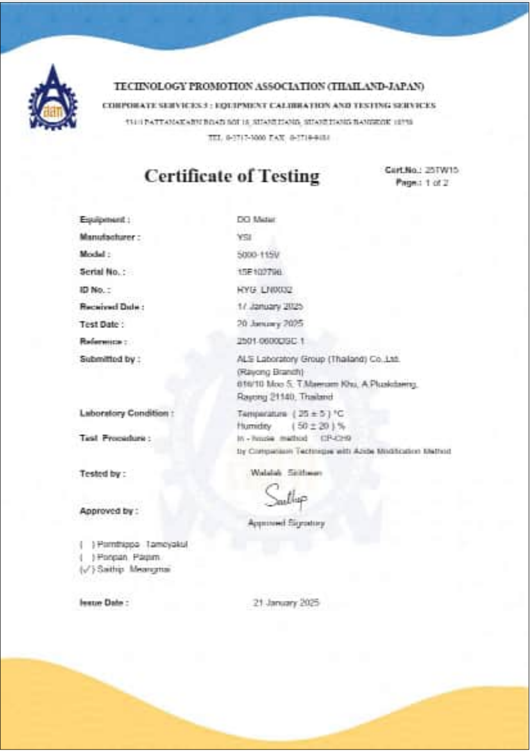

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TEL. 0-2717-3000 FAX. 0-2719-9484

Certificate of Testing

Cert.No.: 25TW15
Page.: 1 of 2

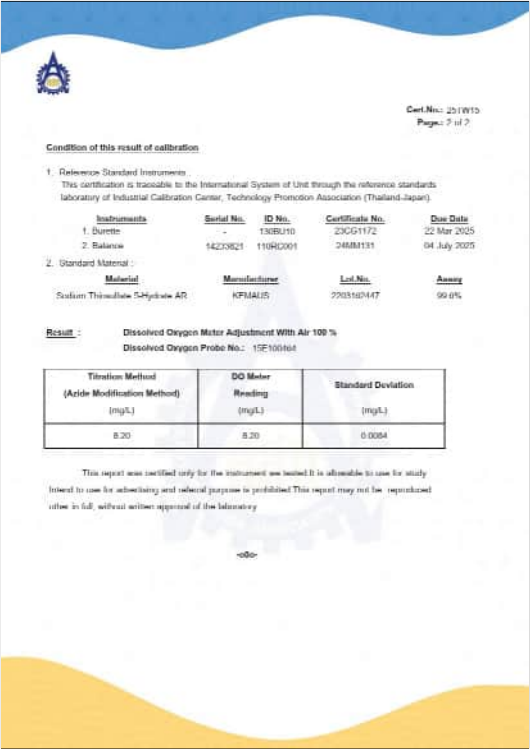
Equipment : DO Meter
Manufacturer : YSI
Model : 5000-115V
Serial No. : 15F102796
ID No. : RYG_LN0032
Received Date : 17 January 2025
Test Date : 20 January 2025
Reference : 2501-0600DSC-1
Submitted by : ALS Laboratory Group (Thailand) Co.,Ltd.
(Rayong Branch)
616/10 Moo 5, T.Maenam Khu, A.Pluakdaeng,
Rayong 21140, Thailand
Laboratory Condition : Temperature (25 ± 5) °C
Humidity (50 ± 20) %
Test Procedure : In - house method CP-CH9
by Comparison Technique with Azide Modification Method

Tested by : Walalak Sitthean

Approved by :
Saithip
Approved Signatory

( ) Pornthippa Tameyakul
( ) Ponpan Papim
(✓) Saithip Meangmai

Issue Date : 21 January 2025



Cert.No.: 25TW15
Page.: 2 of 2

Condition of this result of calibration

1. Reference Standard Instruments :
This certification is traceable to the International System of Unit through the reference standards laboratory of Industrial Calibration Center, Technology Promotion Association (Thailand-Japan).

Instruments	Serial No.	ID No.	Certificate No.	Due Date
1. Burette	-	130BU10	23CG1172	22 Mar 2025
2. Balance	14233821	110RO001	24MM131	04 July 2025

2. Standard Material :

Material	Manufacturer	Lot.No.	Assay
Sodium Thiosulfate 5-Hydrate AR	KEMAUS	2203102447	99.6%

Result : **Dissolved Oxygen Meter Adjustment With Air 100 %**
Dissolved Oxygen Probe No.: 15E100464

Titration Method (Azide Modification Method) (mg/L)	DO Meter Reading (mg/L)	Standard Deviation (mg/L)
8.20	8.20	0.0084

This report was certified only for the instrument we tested. It is allowable to use for study. Intend to use for advertising and referral purpose is prohibited. This report may not be reproduced other in full, without written approval of the laboratory.

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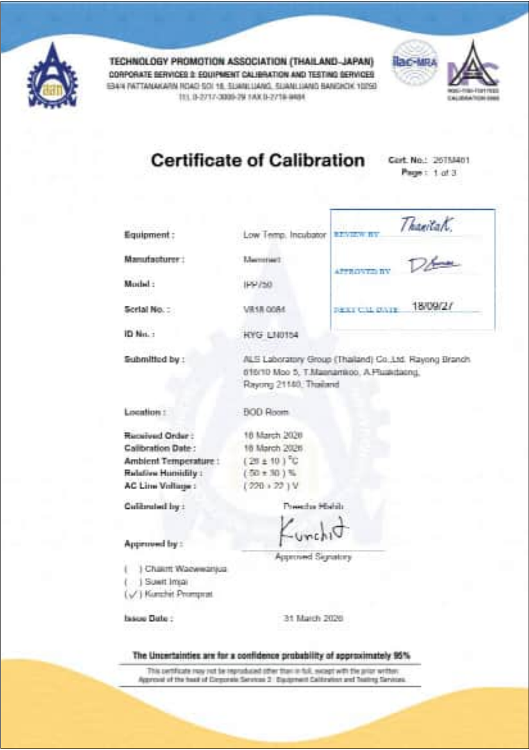

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TEL 0-2717-3000-29 FAX 0-2719-9484

Certificate of Calibration

Cert. No.: 26TM401
Page : 1 of 3

Equipment : Low Temp. Incubator
Manufacturer : Memmert
Model : IPP750
Serial No. : V818.0084
ID No. : RYG_LN0154

REVIEW BY Thanitak.
APPROVED BY
NEXT CAL DATE 18/09/27

Submitted by : ALS Laboratory Group (Thailand) Co.,Ltd. Rayong Branch
616/10 Moo 5, T.Maenamkoo, A.Pluakdaeng,
Rayong 21140, Thailand

Location : BOD Room

Received Order : 18 March 2026
Calibration Date : 18 March 2026
Ambient Temperature : (26 ± 10) °C
Relative Humidity : (50 ± 30) %
AC Line Voltage : (220 ± 22) V

Calibrated by : Preecha Hlabib

Approved by :
Kunchit
Approved Signatory

( ) Chakrit Waewwanjua
( ) Suwit Imjai
(✓) Kunchit Prompraj

Issue Date : 31 March 2026

The Uncertainties are for a confidence probability of approximately 95%

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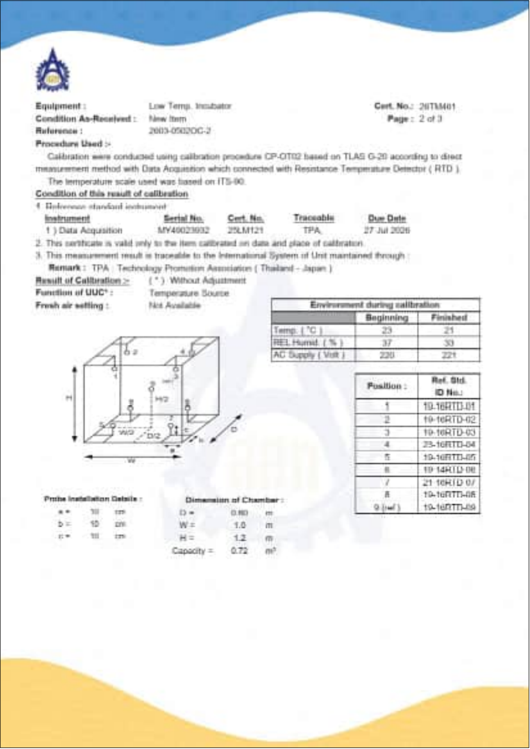


Equipment : Low Temp. Incubator
Condition As-Received : New Item
Reference : 2603-0502OC-2

Cert. No.: 26TM401
Page : 2 of 3

Procedure Used :-

Calibration were conducted using calibration procedure CP-OT02 based on TLAS G-20 according to direct measurement method with Data Acquisition which connected with Resistance Temperature Detector (RTD).

The temperature scale used was based on ITS-90.

Condition of this result of calibration

1. Reference standard instrument

Instrument	Serial No.	Cert. No.	Traceable	Due Date
1) Data Acquisition	MY49023932	25LM121	TPA	27 Jul 2026

2. This certificate is valid only to the item calibrated on data and place of calibration.
3. This measurement result is traceable to the International System of Unit maintained through :

Remark : TPA : Technology Promotion Association (Thailand - Japan)

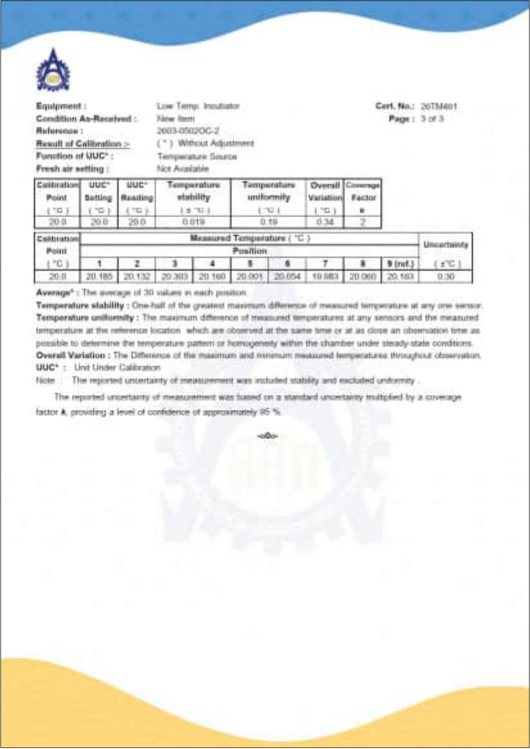
Result of Calibration :- (*) Without Adjustment
Function of UUC* : Temperature Source
Fresh air setting : Not Available

Environment during calibration	Beginning	Finished
Temp. (°C)	23	21
REL.Humid. (%)	37	33
AC Supply (Volt)	220	221

Position :	Ref. Std. ID No.:
1	19-16RTD-01
2	19-16RTD-02
3	19-16RTD-03
4	23-16RTD-04
5	19-16RTD-05
6	19-14RTD-06
7	21-16RTD-07
8	19-16RTD-08
9 (ref.)	19-16RTD-09

Probe Installation Details :
a = 10 cm
b = 10 cm
c = 10 cm

Dimension of Chamber :
D = 0.60 m
W = 1.0 m
H = 1.2 m
Capacity = 0.72 m³



Equipment : Low Temp. Incubator
Condition As-Received : New Item
Reference : 2603-0502OC-2
Result of Calibration :- (*) Without Adjustment
Function of UUC* : Temperature Source
Fresh air setting : Not Available

Cert. No.: 26TM401
Page : 3 of 3

Calibration Point (°C)	UUC* Setting (°C)	UUC* Reading (°C)	Temperature stability (± °C)	Temperature uniformity (°C)	Overall Variation (°C)	Coverage Factor *k*
20.0	20.0	20.0	0.019	0.19	0.34	2

Calibration Point	Measured Temperature (°C)									Uncertainty
	Position									
(°C)	1	2	3	4	5	6	7	8	9 (ref.)	(± °C)
20.0	20.185	20.132	20.303	20.160	20.001	20.054	19.983	20.060	20.163	0.30

Average* : The average of 30 values in each position.
Temperature stability : One-half of the greatest maximum difference of measured temperature at any one sensor.
Temperature uniformity : The maximum difference of measured temperatures at any sensors and the measured temperature at the reference location which are observed at the same time or at as close an observation time as possible to determine the temperature pattern or homogeneity within the chamber under steady-state conditions.
Overall Variation : The Difference of the maximum and minimum measured temperatures throughout observation.
UUC* : Unit Under Calibration
Note : The reported uncertainty of measurement was included stability and excluded uniformity .

The reported uncertainty of measurement was based on a standard uncertainty multiplied by a coverage factor ***k***, providing a level of confidence of approximately 95 %.

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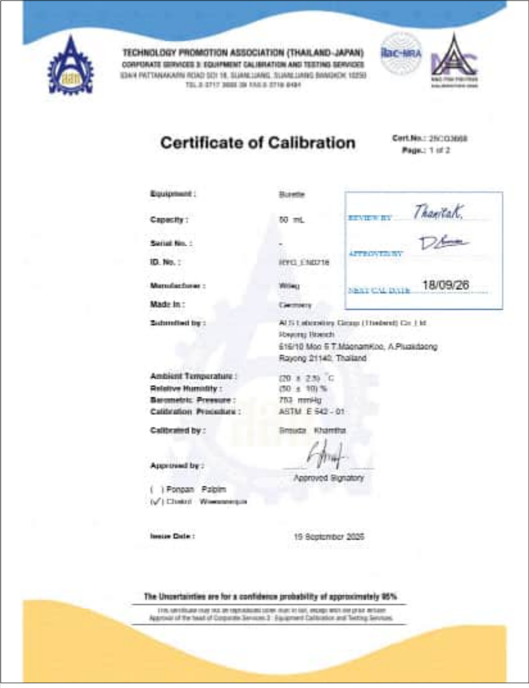

TECHNOLOGY PROMOTION ASSOCIATION (THAILAND-JAPAN)
CORPORATE SERVICES 3: EQUIPMENT CALIBRATION AND TESTING SERVICES
534/4 PATTANAKARN ROAD SOI 18, SUANLUANG, SUANLUANG BANGKOK 10250
TEL 0-2717-3000-29 FAX 0-2719-9484

Certificate of Calibration

Cert.No.: 25CG3668
Page.: 1 of 2

Equipment : Burette
Capacity : 50 mL
Serial No. : -
ID. No. : RYO_EN0718
Manufacturer : Witeg
Made In : Germany
Submitted by : ALS Laboratory Group (Thailand) Co.,Ltd
Rayong Branch
616/10 Moo 5 T.MaenamKoo, A.Pluakdaeng
Rayong 21140, Thailand

REVIEW BY Thanitak.
APPROVED BY
NEXT CAL DATE 18/09/26

Ambient Temperature : (20 ± 2.5) °C
Relative Humidity : (50 ± 10) %
Barometric Pressure : 753 mmHg
Calibration Procedure : ASTM E 542 - 01
Calibrated by : Srisuda Khamtha
Approved by : Approved Signatory

( ) Ponpan Paipim
(✓) Chakrit Waowanjua

Issue Date : 15 September 2025

The Uncertainties are for a confidence probability of approximately 95%

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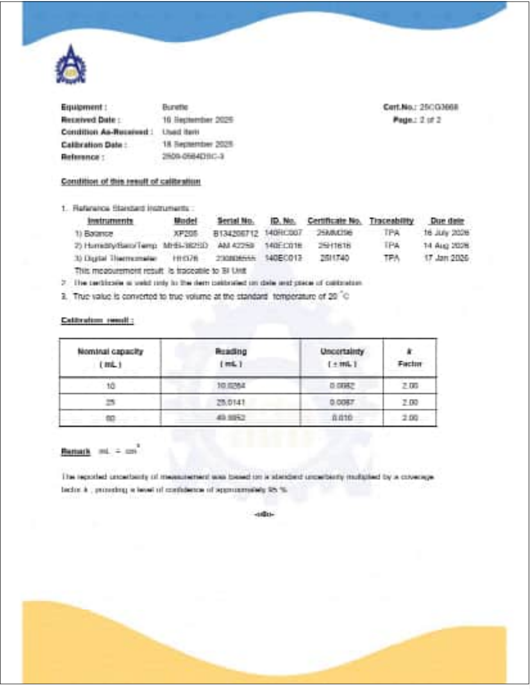

Equipment : Burette
Received Date : 16 September 2025
Condition As-Received : Used Item
Calibration Date : 18 September 2025
Reference : 2509-0584DSC-3

Cert.No.: 25CG3668
Page.: 2 of 2

Condition of this result of calibration

1. Reference Standard Instruments :

Instruments	Model	Serial No.	ID. No.	Certificate No.	Traceability	Due date
1) Balance	XP205	B134206712	140RC007	25MM296	TPA	16 July 2026
2) Humidity/Baro/Temp	MHB-382SD	AM.42259	140EC016	25H1618	TPA	14 Aug 2026
3) Digital Thermometer	HH378	230806555	140EC013	25I1740	TPA	17 Jan 2026

This measurement result is traceable to SI Unit

2. The certificate is valid only to the item calibrated on date and place of calibration.
3. True value is converted to true volume at the standard temperature of 20 °C

Calibration result :

Nominal capacity (mL)	Reading (mL)	Uncertainty (± mL)	*k* Factor
10	10.0264	0.0082	2.00
25	25.0141	0.0087	2.00
50	49.9952	0.010	2.00

Remark mL = cm³

The reported uncertainty of measurement was based on a standard uncertainty multiplied by a coverage factor *k* , providing a level of confidence of approximately 95 %.

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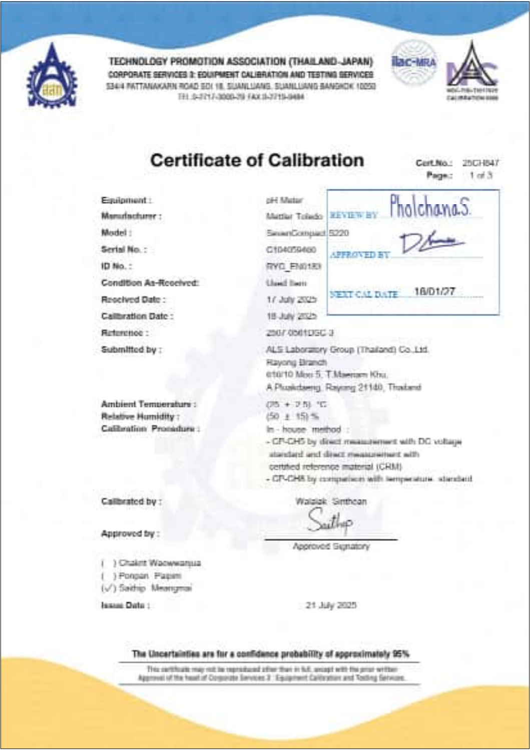

TECHNOLOGY PROMOTION ASSOCIATION (THAILAND-JAPAN)
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534/4 PATTANAKARN ROAD SOI 18, SUANLUANG, SUANLUANG BANGKOK 10250
TEL 0-2717-3000-29 FAX 0-2719-9484

Certificate of Calibration

Cert.No.: 25CH847
Page.: 1 of 3

Equipment : pH Meter
Manufacturer : Mettler Toledo
Model : SevenCompact S220
Serial No. : C104059460
ID No. : RYO_EN0183
Condition As-Received: Used Item
Received Date : 17 July 2025
Calibration Date : 18 July 2025
Reference : 2507-0561DSC-3
Submitted by : ALS Laboratory Group (Thailand) Co.,Ltd.
Rayong Branch
616/10 Moo 5, T.Maenam Khu,
A.Pluakdaeng, Rayong 21140, Thailand

REVIEW BY PholchanaS.
APPROVED BY
NEXT CAL DATE 18/01/27

Ambient Temperature : (25 ± 2.5) °C
Relative Humidity : (50 ± 15) %
Calibration Procedure : In - house method :
- CP-CH5 by direct measurement with DC voltage standard and direct measurement with certified reference material (CRM)
- CP-CH8 by comparison with temperature standard

Calibrated by : Walalak Sinthcan
Approved by : Saithip
Approved Signatory

( ) Chakrit Waowwanjua
( ) Ponpan Paipim
(✓) Saithip Meangmai

Issue Date : 21 July 2025

The Uncertainties are for a confidence probability of approximately 95%

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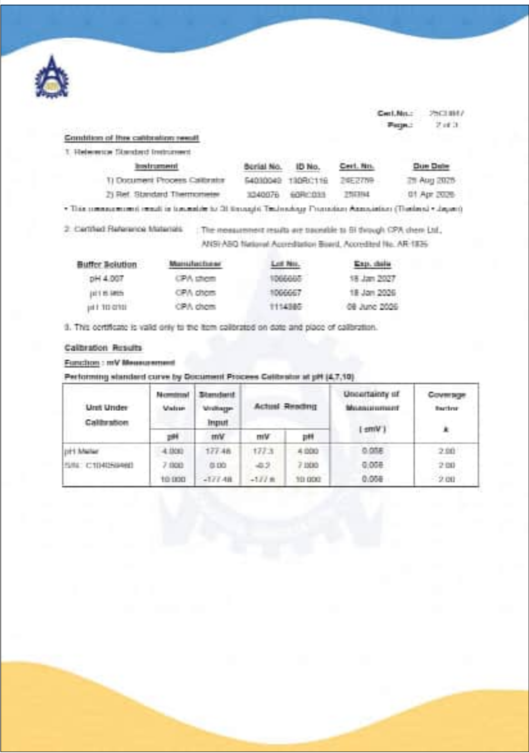


Cert.No.: 25CH847
Page.: 2 of 3

Condition of this calibration result

1. Reference Standard Instrument

Instrument	Serial No.	ID No.	Cert. No.	Due Date
1) Document Process Calibrator	54030040	130RC116	24E2789	25 Aug 2025
2) Ref. Standard Thermometer	3240076	60RC033	25I394	01 Apr 2026

- This measurement result is traceable to SI through Technology Promotion Association (Thailand - Japan)

2. Certified Reference Materials : The measurement results are traceable to SI through CPA chem Ltd., ANSI ASQ National Accreditation Board, Accredited No. AR-1835

Buffer Solution	Manufacturer	Lot No.	Exp. date
pH 4.007	CPA chem	1066666	18 Jan 2027
pH 6.865	CPA chem	1066667	18 Jan 2026
pH 10.010	CPA chem	1114380	08 June 2026

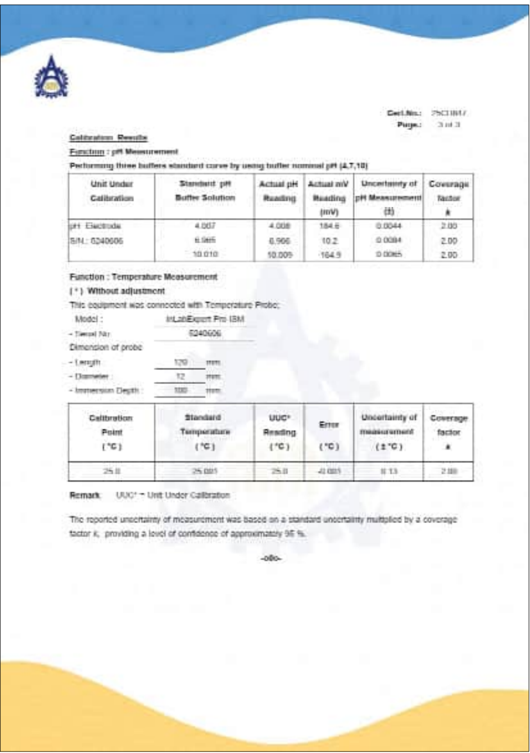
3. This certificate is valid only to the item calibrated on date and place of calibration.

Calibration Results

Function : mV Measurement

Performing standard curve by Document Process Calibrator at pH (4,7,10)

Unit Under Calibration	Nominal Value	Standard Voltage Input	Actual Reading		Uncertainty of Measurement	Coverage factor
	pH	mV	mV	pH	(±mV)	*k*
pH Meter	4.000	177.48	177.3	4.000	0.008	2.00
S/N : C104059460	7.000	0.00	-0.2	7.000	0.008	2.00
	10.000	-177.48	-177.8	10.000	0.008	2.00



Cert.No.: 25CH847
Page.: 3 of 3

Calibration Results

Function : pH Measurement

Performing three buffers standard curve by using buffer nominal pH (4,7,10)

Unit Under Calibration	Standard pH Buffer Solution	Actual pH Reading	Actual mV Reading (mV)	Uncertainty of pH Measurement (±)	Coverage factor *k*
pH Electrode	4.007	4.008	184.6	0.0044	2.00
S/N.: 5240606	6.865	6.966	10.2	0.0084	2.00
	10.010	10.009	-164.9	0.0065	2.00

Function : Temperature Measurement

(*) Without adjustment

This equipment was connected with Temperature Probe;
Model : InLabExpert Pro ISM
- Serial No : 5240606
Dimension of probe
- Length 120 mm
- Diameter : 12 mm
- Immersion Depth : 100 mm

Calibration Point (°C)	Standard Temperature (°C)	UUC* Reading (°C)	Error (°C)	Uncertainty of measurement (± °C)	Coverage factor *k*
25.0	25.001	25.0	-0.001	0.13	2.00

Remark UUC* = Unit Under Calibration

The reported uncertainty of measurement was based on a standard uncertainty multiplied by a coverage factor k, providing a level of confidence of approximately 95 %.

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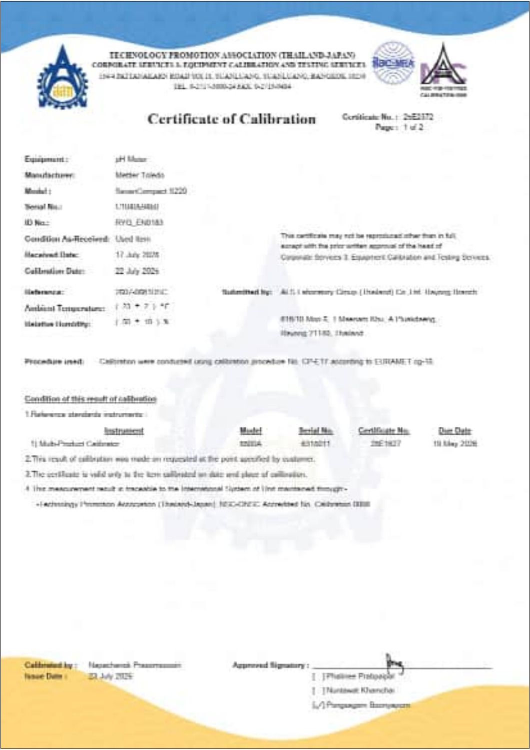

TECHNOLOGY PROMOTION ASSOCIATION (THAILAND-JAPAN)
CORPORATE SERVICES 3: EQUIPMENT CALIBRATION AND TESTING SERVICES
534/4 PATTANAKARN ROAD SOI 18, SUANLUANG, SUANLUANG, BANGKOK 10250
TEL. 0-2717-3000-24 FAX. 0-2719-9484

Certificate of Calibration

Certificate No. : 25E2372
Page : 1 of 2

Equipment : pH Meter
Manufacturer: Mettler Toledo
Model : SevenCompact S220
Serial No.: C104059460
ID No.: RYO_EN0183
Condition As-Received: Used Item
Received Date: 17 July 2025
Calibration Date: 22 July 2025
Reference: [illegible]
Ambient Temperature: (23 ± 2) °C
Relative Humidity: (50 ± 10) %

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Submitted by: ALS Laboratory Group (Thailand) Co.,Ltd. Rayong Branch
616/10 Moo 5, T.Maenam Khu, A.Pluakdaeng,
Rayong 21140, Thailand

Procedure used: Calibration were conducted using calibration procedure No. CP-ET7 according to EURAMET cg-15

Condition of this result of calibration

1. Reference standards instruments :

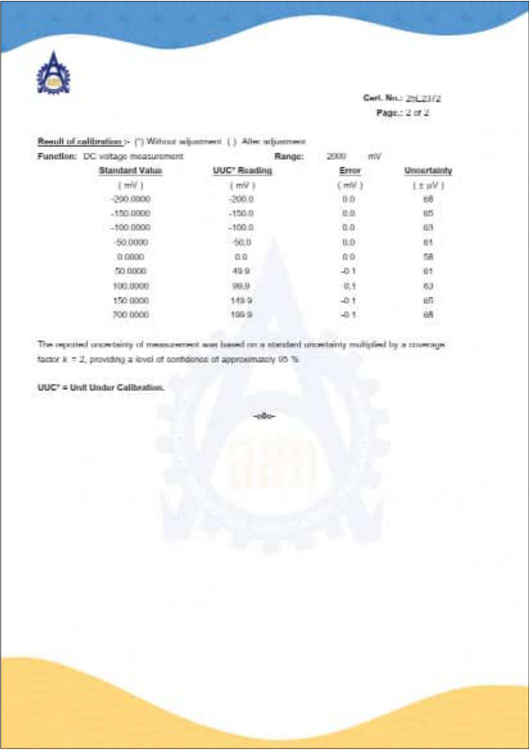
Instrument	Model	Serial No.	Certificate No.	Due Date
1) Multi-Product Calibrator	5520A	6310011	25E1627	19 May 2026

2. This result of calibration was made on requested at the point specified by customer.
3. The certificate is valid only to the item calibrated on date and place of calibration.
4. This measurement result is traceable to the International System of Unit maintained through :-

-Technology Promotion Association (Thailand-Japan). NSC-ONSC Accredited No. Calibration 0008

Calibrated by : Napachanok Prasomsasin
Issue Date : 23 July 2025

Approved Signatory :
[ ] Phatinee Pratpaipat
[ ] Nuntawat Khanchai
[✓] Pongsagorn Boonyasorn



Cert. No.: 25E2372
Page.: 2 of 2

Result of calibration :- (*) Without adjustment ( ) After adjustment
Function: DC voltage measurement **Range:** 2000 mV

Standard Value (mV)	UUC* Reading (mV)	Error (mV)	Uncertainty (± µV)
-200.0000	-200.0	0.0	68
-150.0000	-150.0	0.0	65
-100.0000	-100.0	0.0	63
-50.0000	-50.0	0.0	61
0.0000	0.0	0.0	58
50.0000	49.9	-0.1	61
100.0000	99.9	-0.1	63
150.0000	149.9	-0.1	65
200.0000	199.9	-0.1	68

The reported uncertainty of measurement was based on a standard uncertainty multiplied by a coverage factor k = 2, providing a level of confidence of approximately 95 %.

UUC* = Unit Under Calibration.

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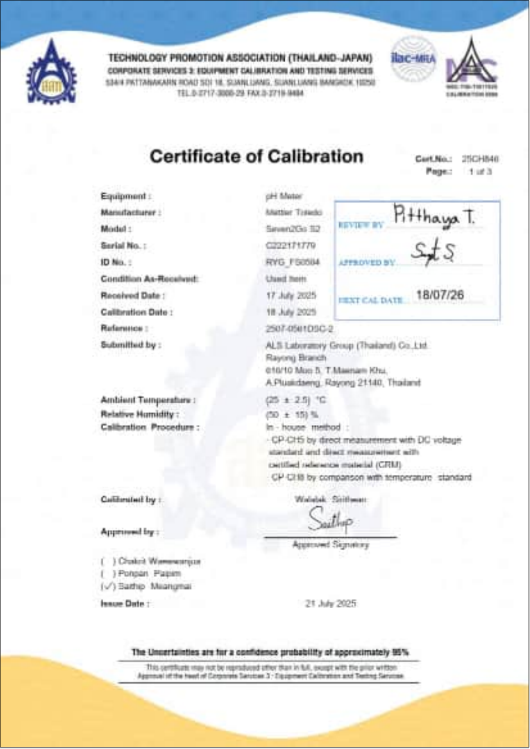

TECHNOLOGY PROMOTION ASSOCIATION (THAILAND-JAPAN)
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5344 PATTANAKARN ROAD SOI 18, SUANLUANG, SUANLUANG BANGKOK 10250
TEL.0-2717-3000-29 FAX.0-2719-9484

Certificate of Calibration

Cert.No.: 25CH846
Page.: 1 of 3

Equipment :	pH Meter
Manufacturer :	Mettler Toledo
Model :	Seven2Go S2
Serial No. :	C222171779
ID No. :	RYG_FS0584
Condition As-Received:	Used item
Received Date :	17 July 2025
Calibration Date :	18 July 2025
Reference :	2507-0581DSC-2
Submitted by :	ALS Laboratory Group (Thailand) Co.,Ltd. Rayong Branch 616/10 Moo 5, T.Maenam Khu, A.Pluakdaeng, Rayong 21140, Thailand
Ambient Temperature :	(25 ± 2.5) °C
Relative Humidity :	(50 ± 15) %
Calibration Procedure :	In - house method : - CP-CH5 by direct measurement with DC voltage standard and direct measurement with certified reference material (CRM) - CP-CH8 by comparison with temperature standard

REVIEW BY Pitthaya T.
APPROVED BY
NEXT CAL DATE 18/07/26

Calibrated by : Walalak Sritham
Approved by : Approved Signatory

( ) Chakrit Wareesanjua
( ) Ponpan Papim
(✓) Sathip Meangmai

Issue Date : 21 July 2025

The Uncertainties are for a confidence probability of approximately 95%

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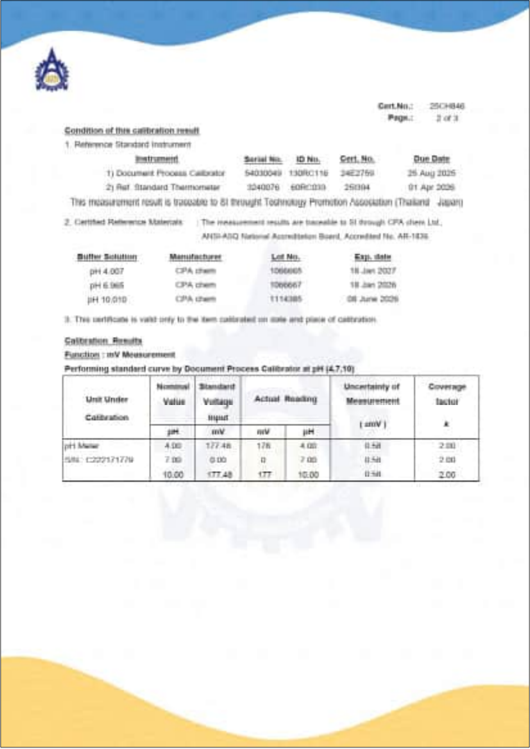


Cert.No.: 25CH846
Page.: 2 of 3

Condition of this calibration result

1. Reference Standard Instrument

Instrument	Serial No.	ID No.	Cert. No.	Due Date
1) Document Process Calibrator	54030049	130RC116	24E2759	25 Aug 2025
2) Ref. Standard Thermometer	3240076	60RC030	25094	01 Apr 2026

This measurement result is traceable to SI throught Technology Promotion Association (Thailand - Japan)

2. Certified Reference Materials : The measurement results are traceable to SI through CPA chem Ltd., ANSI-ASQ National Accreditation Board, Accredited No. AR-1836

Buffer Solution	Manufacturer	Lot No.	Exp. date
pH 4.007	CPA chem	1066665	18 Jan 2027
pH 6.965	CPA chem	1066667	18 Jan 2026
pH 10.010	CPA chem	1114385	08 June 2026

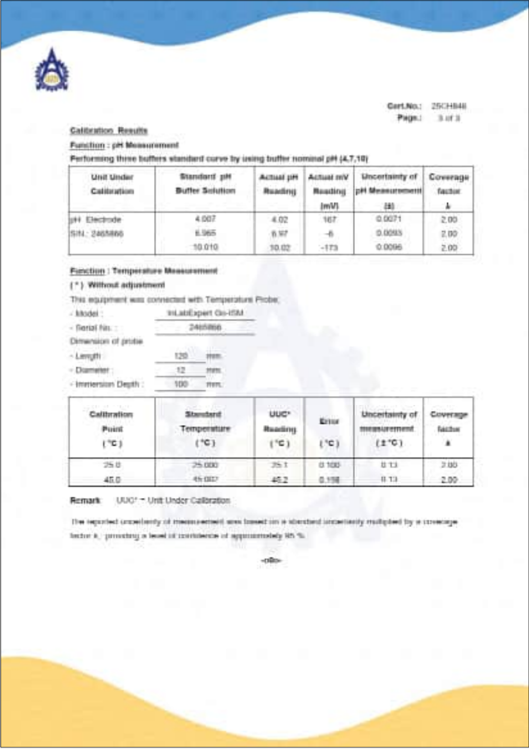
3. This certificate is valid only to the item calibrated on date and place of calibration.

Calibration Results

Function : mV Measurement

Performing standard curve by Document Process Calibrator at pH (4,7,10)

Unit Under Calibration	Nominal Value	Standard Voltage Input	Actual Reading		Uncertainty of Measurement (±mV)	Coverage factor k
	pH	mV	mV	pH		
pH Meter	4.00	177.48	178	4.00	0.58	2.00
S/N : C222171779	7.00	0.00	0	7.00	0.58	2.00
	10.00	177.48	177	10.00	0.58	2.00



Cert.No.: 25CH846
Page.: 3 of 3

Calibration Results

Function : pH Measurement

Performing three buffers standard curve by using buffer nominal pH (4,7,10)

Unit Under Calibration	Standard pH Buffer Solution	Actual pH Reading	Actual mV Reading (mV)	Uncertainty of pH Measurement (±)	Coverage factor k
pH Electrode	4.007	4.02	167	0.0071	2.00
S/N : 2465866	6.965	6.97	-6	0.0093	2.00
	10.010	10.02	-173	0.0096	2.00

Function : Temperature Measurement

(*) Without adjustment

This equipment was connected with Temperature Probe;
- Model : InLabExpert Go-ISM
- Serial No. : 2465866

Dimension of probe
- Length 120 mm.
- Diameter : 12 mm.
- Immersion Depth : 100 mm.

Calibration Point (°C)	Standard Temperature (°C)	UUC* Reading (°C)	Error (°C)	Uncertainty of measurement (±°C)	Coverage factor k
25.0	25.000	25.1	0.100	0.13	2.00
45.0	45.002	45.2	0.198	0.13	2.00

Remark UUC* = Unit Under Calibration

The reported uncertainty of measurement was based on a standard uncertainty multiplied by a coverage factor k, providing a level of confidence of approximately 95 %.

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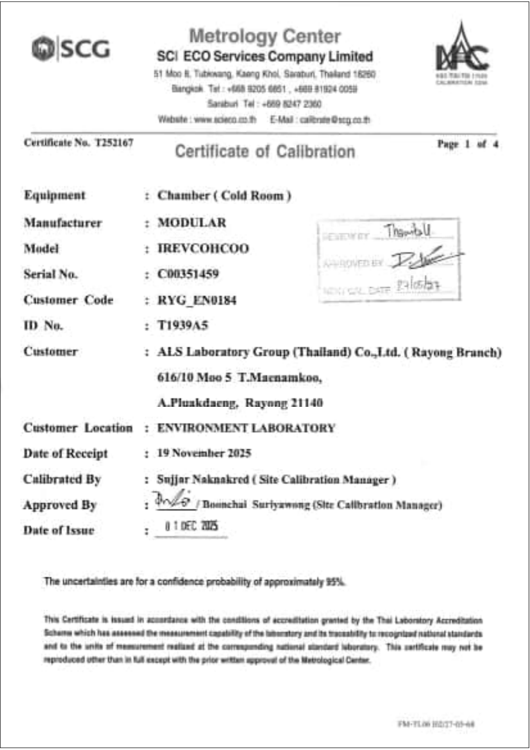


Metrology Center
SCI ECO Services Company Limited
51 Moo 8, Tubkwang, Kaeng Khoi, Saraburi, Thailand 18260
Bangkok Tel : +668 9205 6851 , +669 81924 0059
Saraburi Tel : +669 8247 2360
Website : www.scieco.co.th E-Mail : calibrate@scg.co.th

Certificate No. T252167
Page 1 of 4

Certificate of Calibration

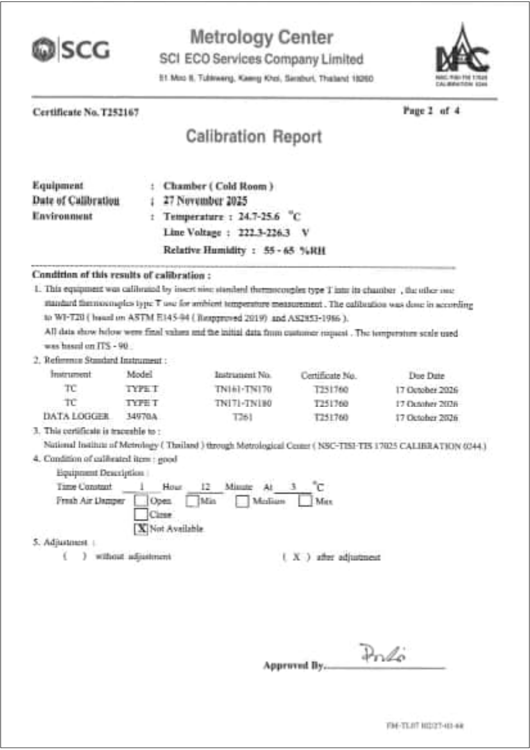
Equipment	: **Chamber (Cold Room)**
Manufacturer	: **MODULAR**
Model	: **IREVCOHCOO**
Serial No.	: **C00351459**
Customer Code	: **RYG_EN0184**
ID No.	: **T1939A5**
Customer	: **ALS Laboratory Group (Thailand) Co.,Ltd. (Rayong Branch)** **616/10 Moo 5 T.Maenamkoo,** **A.Pluakdaeng, Rayong 21140**
Customer Location	: **ENVIRONMENT LABORATORY**
Date of Receipt	: **19 November 2025**
Calibrated By	: **Sujjar Naknakred (Site Calibration Manager)**
Approved By	: / **Boonchai Suriyawong (Site Calibration Manager)**
Date of Issue	: 0 1 DEC 2025

REVIEW BY Thanitu
APPROVED BY
NEXT CAL DATE 27/05/27

The uncertainties are for a confidence probability of approximately 95%.

This Certificate is issued in accordance with the conditions of accreditation granted by the Thai Laboratory Accreditation Scheme which has assessed the measurement capability of the laboratory and its traceability to recognized national standards and to the units of measurement realized at the corresponding national standard laboratory. This certificate may not be reproduced other than in full except with the prior written approval of the Metrological Center.

FM-TL06 R02/27-03-68



Metrology Center
SCI ECO Services Company Limited
51 Moo 8, Tubkwang, Kaeng Khoi, Saraburi, Thailand 18260

Certificate No. T252167
Page 2 of 4

Calibration Report

Equipment : **Chamber (Cold Room)**
Date of Calibration : **27 November 2025**
Environment : **Temperature : 24.7-25.6 °C**
Line Voltage : 222.3-226.3 V
Relative Humidity : 55 - 65 %RH

Condition of this results of calibration :

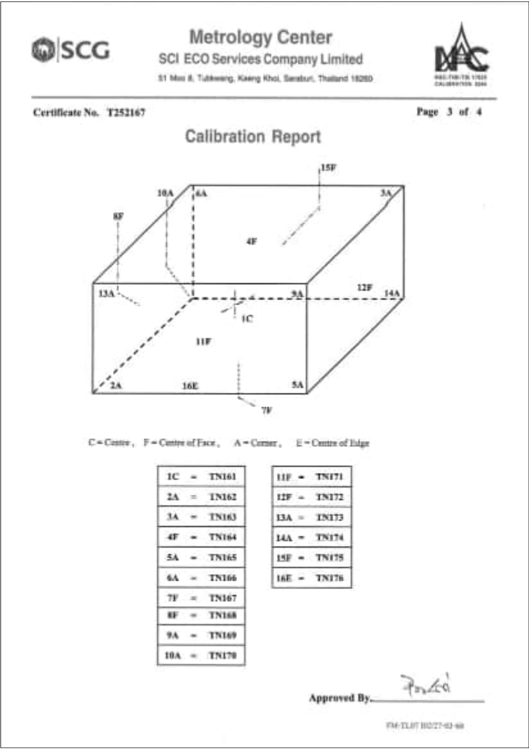
1. This equipment was calibrated by insert nine standard thermocouples type T into its chamber , the other one standard thermocouples type T use for ambient temperature measurement . The calibration was done in according to WI-T20 (based on ASTM E145-94 (Reapproved 2019) and AS2853-1986).
All data show below were final values and the initial data from customer request . The temperature scale used was based on ITS - 90 .
2. Reference Standard Instrument :

Instrument	Model	Instrument No.	Certificate No.	Due Date
TC	TYPE T	TN161-TN170	T251760	17 October 2026
TC	TYPE T	TN171-TN180	T251760	17 October 2026
DATA LOGGER	34970A	T261	T251760	17 October 2026

3. This certificate is traceable to :
National Institute of Metrology (Thailand) through Metrological Center (NSC-TISI-TIS 17025 CALIBRATION 0244)
4. Condition of calibrated item : good
Equipment Description :
Time Constant 1 Hour 12 Minute At 3 °C
Fresh Air Damper ☐ Open ☐ Min ☐ Medium ☐ Max
☐ Close
☒ Not Available
5. Adjustment :
( ) without adjustment (X) after adjustment

Approved By.

FM-TL07 R02/27-03-68



Metrology Center
SCI ECO Services Company Limited
51 Moo 8, Tubkwang, Kaeng Khoi, Saraburi, Thailand 18260

Certificate No. T252167
Page 3 of 4

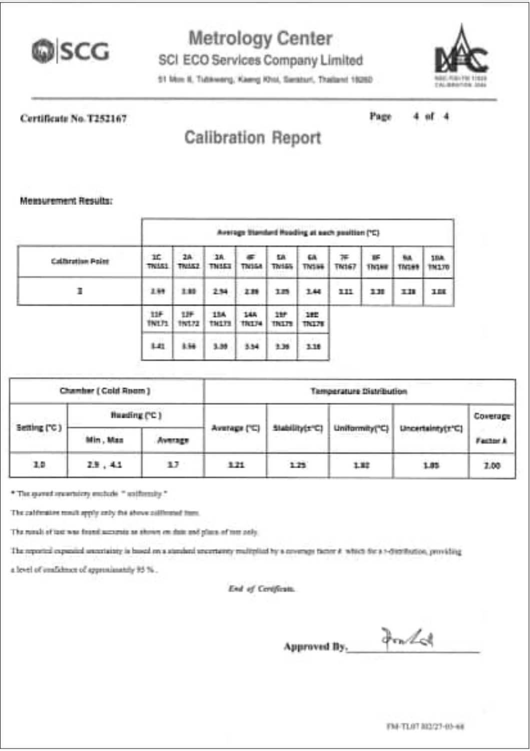
Calibration Report

C = Centre , F = Centre of Face , A = Corner , E = Centre of Edge

1C = TN161	11F = TN171
2A = TN162	12F = TN172
3A = TN163	13A = TN173
4F = TN164	14A = TN174
5A = TN165	15F = TN175
6A = TN166	16E = TN176
7F = TN167	
8F = TN168	
9A = TN169	
10A = TN170	

Approved By.

FM-TL07 R02/27-03-68



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51 Moo 8, Tubkwang, Kaeng Khoi, Saraburi, Thailand 18260

Certificate No. T252167
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Calibration Report

Measurement Results:

Calibration Point	Average Standard Reading at each position (°C)									
	1C TN161	2A TN162	3A TN163	4F TN164	5A TN165	6A TN166	7F TN167	8F TN168	9A TN169	10A TN170
3	2.99	3.00	2.94	2.89	3.05	3.44	3.11	3.30	3.28	3.08
	11F TN171	12F TN172	13A TN173	14A TN174	15F TN175	16E TN176				
	3.41	3.56	3.39	3.54	3.36	3.18				

Chamber (Cold Room)			Temperature Distribution				
Setting (°C)	Reading (°C)		Average (°C)	Stability(±°C)	Uniformity(°C)	Uncertainty(±°C)	Coverage Factor k
	Min , Max	Average					
3.0	2.9 , 4.1	3.7	3.21	1.25	1.82	1.85	2.00

* The quoted uncertainty exclude " uniformity "

The calibration result apply only the above calibrated item.

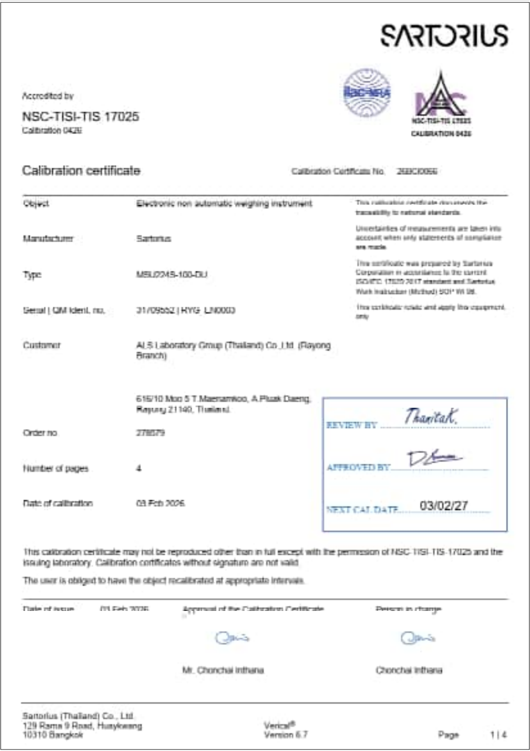
The result of test was found accurate as shown on date and place of test only.

The reported expanded uncertainty is based on a standard uncertainty multiplied by a coverage factor k which for a t-distribution, providing a level of confidence of approximately 95 %.

End of Certificate.

Approved By.

FM-TL07 R02/27-03-68



SARTORIUS

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NSC-TISI-TIS 17025
Calibration 0426

Calibration certificate

Calibration Certificate No. 26BCI0066

Object	Electronic non automatic weighing instrument	This calibration certificate documents the traceability to national standards.
Manufacturer	Sartorius	Uncertainties of measurements are taken into account when only statements of compliance are made.
Type	MSU224S-100-DU	This certificate was prepared by Sartorius Corporation in accordance to the current ISO/IEC 17025:2017 standard and Sartorius Work Instruction (Method) SOP WI 08.
Serial | QM Ident. no.	31709552 | RYG_EN0003	This certificate relate and apply this equipment only.
Customer	ALS Laboratory Group (Thailand) Co.,Ltd. (Rayong Branch) 616/10 Moo 5 T.Maenamkoo, A.Pluak Daeng, Rayong 21140, Thailand	
Order no.	278579	
Number of pages	4	
Date of calibration	03 Feb 2026	

REVIEW BY Thanitak.
APPROVED BY
NEXT CAL DATE 03/02/27

This calibration certificate may not be reproduced other than in full except with the permission of NSC-TISI-TIS-17025 and the issuing laboratory. Calibration certificates without signature are not valid.

The user is obliged to have the object recalibrated at appropriate intervals.

Date of issue 03 Feb 2026
Approval of the Calibration Certificate: Mr. Chonchai Inthana
Person in charge: Chonchai Inthana

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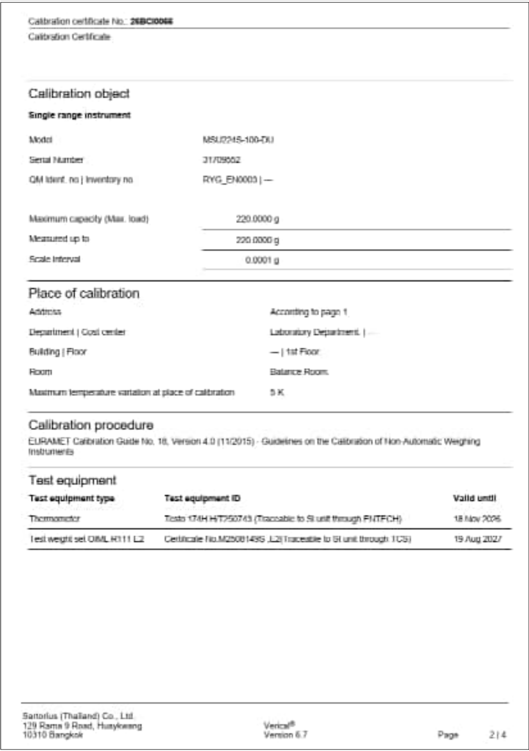

Calibration certificate No.: **26BCI0066**
Calibration Certificate

Calibration object

Single range instrument

Model	MSU224S-100-DU
Serial Number	31709552
QM Ident. no | Inventory no	RYG_EN0003 | —
Maximum capacity (Max. load)	220.0000 g
Measured up to	220.0000 g
Scale interval	0.0001 g

Place of calibration

Address	According to page 1
Department | Cost center	Laboratory Department | —
Building | Floor	— | 1st Floor
Room	Balance Room
Maximum temperature variation at place of calibration	5 K

Calibration procedure

EURAMET Calibration Guide No. 18, Version 4.0 (11/2015) - Guidelines on the Calibration of Non-Automatic Weighing Instruments

Test equipment

Test equipment type	Test equipment ID	Valid until
Thermometer	Testo 174H H/T250743 (Traceable to SI unit through PNTFCH)	18 Nov 2026
Test weight set OIML R111 L2	Certificate No.M25081495 L2(Traceable to SI unit through TCS)	19 Aug 2027

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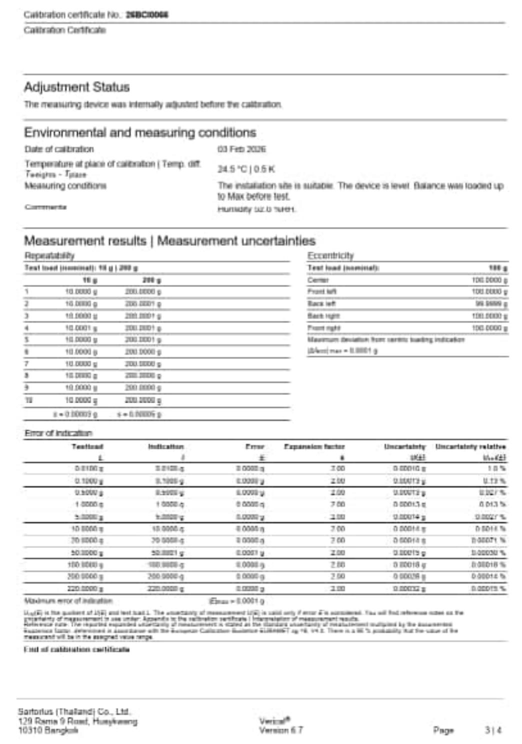

Calibration certificate No.: **26BCI0066**

Calibration Certificate

Adjustment Status

The measuring device was internally adjusted before the calibration.

Environmental and measuring conditions

Date of calibration	03 Feb 2026
Temperature at place of calibration | Temp. diff. $T_{weights} - T_{place}$	24.5 °C | 0.5 K
Measuring conditions	The installation site is suitable. The device is level. Balance was loaded up to Max before test.
Comments	Humidity 52.0 %RH

Measurement results | Measurement uncertainties

Repeatability

Test load (nominal): 10 g | 200 g

	10 g	200 g
1	10.0000 g	200.0000 g
2	10.0000 g	200.0001 g
3	10.0000 g	200.0001 g
4	10.0001 g	200.0001 g
5	10.0000 g	200.0001 g
6	10.0000 g	200.0000 g
7	10.0000 g	200.0000 g
8	10.0000 g	200.0000 g
9	10.0000 g	200.0000 g
10	10.0000 g	200.0000 g
	s = 0.00003 g	s = 0.00005 g

Eccentricity

Test load (nominal):	100 g
Center	100.0000 g
Front left	100.0000 g
Back left	99.9999 g
Back right	100.0000 g
Front right	100.0000 g

Maximum deviation from centric loading indication $|\Delta I_{ecc}|$ max = 0.0001 g

Error of indication

Testload L	Indication I	Error E	Expansion factor k	Uncertainty $U(E)$	Uncertainty relative $U_{rel}(E)$
0.0100 g	0.0100 g	0.0000 g	2.00	0.00010 g	1.0 %
0.1000 g	0.1000 g	0.0000 g	2.00	0.00013 g	0.13 %
0.5000 g	0.5000 g	0.0000 g	2.00	0.00013 g	0.027 %
1.0000 g	1.0000 g	0.0000 g	2.00	0.00013 g	0.013 %
5.0000 g	5.0000 g	0.0000 g	2.00	0.00014 g	0.0027 %
10.0000 g	10.0000 g	0.0000 g	2.00	0.00014 g	0.0014 %
20.0000 g	20.0000 g	0.0000 g	2.00	0.00014 g	0.00071 %
50.0000 g	50.0001 g	0.0001 g	2.00	0.00015 g	0.00030 %
100.0000 g	100.0000 g	0.0000 g	2.00	0.00018 g	0.00018 %
200.0000 g	200.0000 g	0.0000 g	2.00	0.00028 g	0.00014 %
220.0000 g	220.0000 g	0.0000 g	2.00	0.00032 g	0.00015 %

Maximum error of indication $|E_{max}|$ = 0.0001 g

End of calibration certificate

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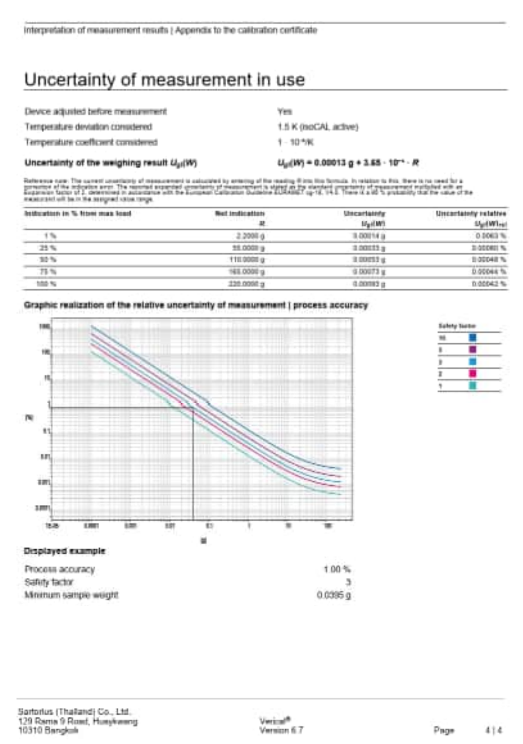

Interpretation of measurement results | Appendix to the calibration certificate

Uncertainty of measurement in use

Device adjusted before measurement	Yes
Temperature deviation considered	1.5 K (isoCAL active)
Temperature coefficient considered	1 · 10^{-6}/K
Uncertainty of the weighing result $U_{gl}(W)$	$U_{gl}(W) = 0.00013\ g + 3.65 \cdot 10^{-6} \cdot R$

Indication in % from max load	Net indication R	Uncertainty $U_{gl}(W)$	Uncertainty relative $U_{gl}(W)_{rel}$
1 %	2.2000 g	0.00014 g	0.0063 %
25 %	55.0000 g	0.00033 g	0.00060 %
50 %	110.0000 g	0.00053 g	0.00048 %
75 %	165.0000 g	0.00073 g	0.00044 %
100 %	220.0000 g	0.00093 g	0.00042 %

Graphic realization of the relative uncertainty of measurement | process accuracy

Displayed example

Process accuracy	1.00 %
Safety factor	3
Minimum sample weight	0.0395 g

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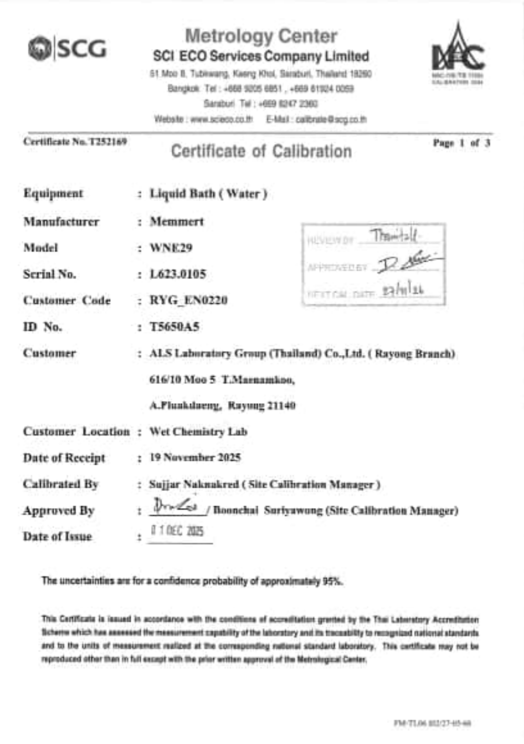

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SCI ECO Services Company Limited
51 Moo 8, Tubkwang, Kaeng Khoi, Saraburi, Thailand 18260
Bangkok Tel : +668 9205 6851 , +669 81924 0059
Saraburi Tel : +669 8247 2360
Website : www.scieco.co.th E-Mail : calibrate@scg.co.th

Certificate No. T252169

Certificate of Calibration

Page 1 of 3

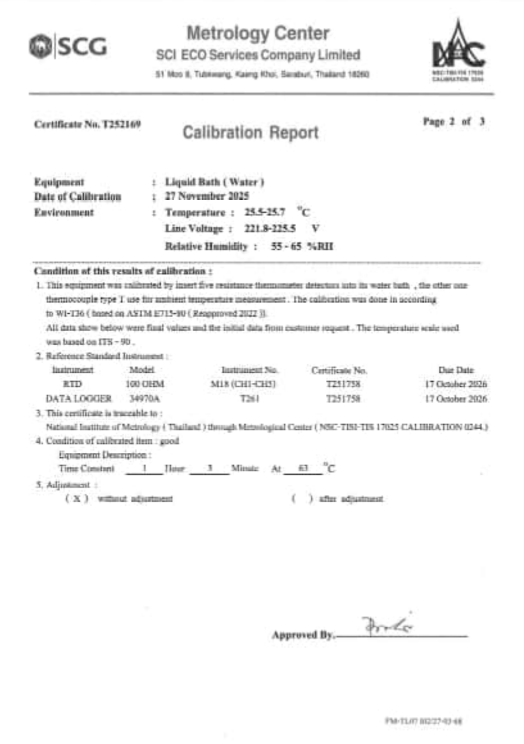
Equipment	: **Liquid Bath (Water)**
Manufacturer	: **Memmert**
Model	: **WNE29**
Serial No.	: **L623.0105**
Customer Code	: **RYG_EN0220**
ID No.	: **T5650A5**
Customer	: **ALS Laboratory Group (Thailand) Co.,Ltd. (Rayong Branch)** **616/10 Moo 5 T.Maenamkoo,** **A.Pluakdaeng, Rayong 21140**
Customer Location	: **Wet Chemistry Lab**
Date of Receipt	: **19 November 2025**
Calibrated By	: **Sujjar Naknakred (Site Calibration Manager)**
Approved By	: / **Boonchai Suriyawong (Site Calibration Manager)**
Date of Issue	: 0 1 DEC 2025

REVIEW BY Thanitak
APPROVED BY
NEXT CAL. DATE 27/11/26

The uncertainties are for a confidence probability of approximately 95%.

This Certificate is issued in accordance with the conditions of accreditation granted by the Thai Laboratory Accreditation Scheme which has assessed the measurement capability of the laboratory and its traceability to recognized national standards and to the units of measurement realized at the corresponding national standard laboratory. This certificate may not be reproduced other than in full except with the prior written approval of the Metrological Center.

FM-TL06 R02/27-05-68



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Certificate No. T252169

Calibration Report

Page 2 of 3

Equipment : **Liquid Bath (Water)**
Date of Calibration : **27 November 2025**
Environment : **Temperature : 25.5-25.7 °C**
Line Voltage : 221.8-225.5 V
Relative Humidity : 55 - 65 %RH

Condition of this results of calibration :

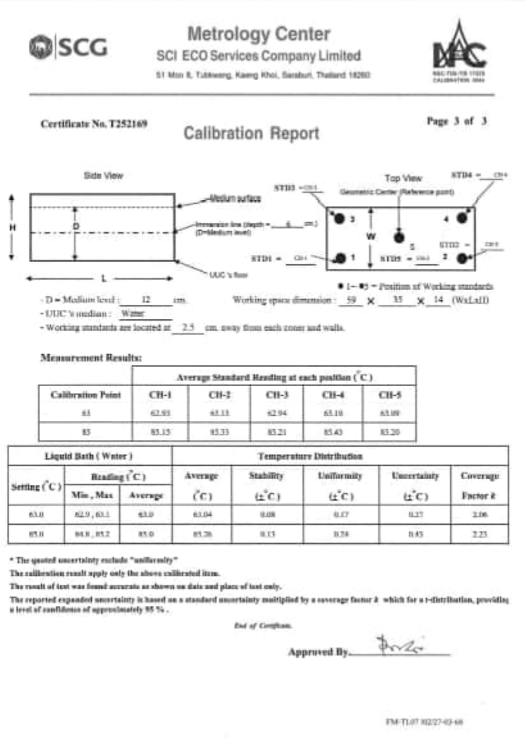
1. This equipment was calibrated by insert five resistance thermometer detectors into its water bath , the other one thermocouple type T use for ambient temperature measurement . The calibration was done in according to WI-T36 (based on ASTM E715-90 (Reapproved 2022)).
   All data show below were final values and the initial data from customer request . The temperature scale used was based on ITS - 90 .
2. Reference Standard Instrument :

Instrument	Model	Instrument No.	Certificate No.	Due Date
RTD	100 OHM	M18 (CH1-CH5)	T251758	17 October 2026
DATA LOGGER	34970A	T261	T251758	17 October 2026

3. This certificate is traceable to :
   National Institute of Metrology (Thailand) through Metrological Center (NSC-TISI-TIS 17025 CALIBRATION 0244.)
4. Condition of calibrated item : good
   Equipment Description :
   Time Constant 1 Hour 3 Minute At 63 °C
5. Adjustment :
   (X) without adjustment ( ) after adjustment

Approved By.

FM-TL07 R02/27-03-68



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Certificate No. T252169

Calibration Report

Page 3 of 3

Side View
Medium surface
Immersion line (depth = 6 cm.)
(D=Medium level)
UUC's floor
H
D
L
Top View
Geometric Center (Reference point)
STD3 = CH3
STD4 = CH4
STD1 = CH1
STD5 = CH5
STD2 = CH2
W
1
2
3
4
5
● 1 – ●5 = Position of Working standards

- D = Medium level : 12 cm. Working space dimension : 59 × 35 × 14 (WxLxH)
- UUC's medium : Water
- Working standards are located at 2.5 cm. away from each corner and walls.

Measurement Results:

Calibration Point	Average Standard Reading at each position (°C) CH-1	CH-2	CH-3	CH-4	CH-5
63	62.93	63.13	62.94	63.18	63.09
85	85.15	85.33	85.21	85.43	85.20

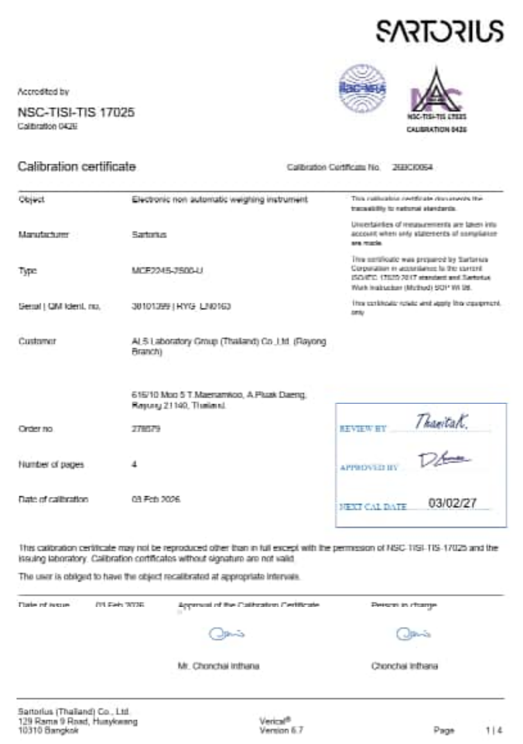
Liquid Bath (Water) Setting (°C)	Reading (°C) Min , Max	Average	Temperature Distribution Average (°C)	Stability (±°C)	Uniformity (±°C)	Uncertainty (±°C)	Coverage Factor k
63.0	62.9 , 63.1	63.0	63.04	0.08	0.17	0.27	2.06
85.0	84.8 , 85.2	85.0	85.26	0.13	0.24	0.45	2.23

*** The quoted uncertainty exclude "uniformity"**
The calibration result apply only the above calibrated item.
The result of test was found accurate as shown on date and place of test only.
The reported expanded uncertainty is based on a standard uncertainty multiplied by a coverage factor k which for a t-distribution, providing a level of confidence of approximately 95 % .

End of Certificate

Approved By.

FM-TL07 R02/27-03-68



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NSC-TISI-TIS 17025
Calibration 0426

NSC-TISI-TIS 17025
CALIBRATION 0426

Calibration certificate

Calibration Certificate No. 26BCI0064

Object	Electronic non automatic weighing instrument
Manufacturer	Sartorius
Type	MCE224S-2S00-U
Serial | QM Ident. no.	38101399 | RYG_EN0163
Customer	ALS Laboratory Group (Thailand) Co.,Ltd. (Rayong Branch) 616/10 Moo 5 T.Maenamkoo, A.Pluak Daeng, Rayong 21140, Thailand
Order no	278579
Number of pages	4
Date of calibration	03 Feb 2026

This calibration certificate documents the traceability to national standards.

Uncertainties of measurements are taken into account when only statements of compliance are made.

This certificate was prepared by Sartorius Corporation in accordance to the current ISO/IEC 17025:2017 standard and Sartorius Work Instruction (Method) SOP WI 06.

This certificate relate and apply this equipment only.

REVIEW BY Thanitak.
APPROVED BY
NEXT CAL DATE 03/02/27

This calibration certificate may not be reproduced other than in full except with the permission of NSC-TISI-TIS-17025 and the issuing laboratory. Calibration certificates without signature are not valid.

The user is obliged to have the object recalibrated at appropriate intervals.

Date of issue	Approval of the Calibration Certificate	Person in charge
03 Feb 2026	Mr. Chonchai Inthana	Chonchai Inthana

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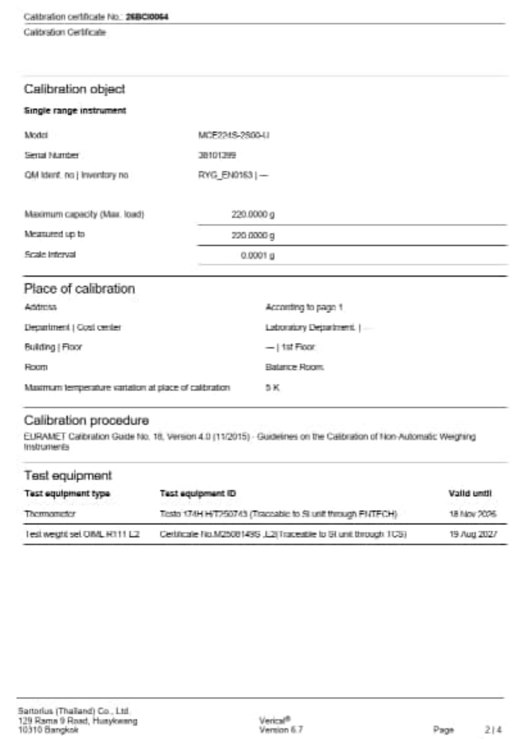

Calibration certificate No.: **26BCI0064**

Calibration Certificate

Calibration object

Single range instrument

Model	MCE224S-2S00-U
Serial Number	38101399
QM Ident. no | Inventory no	RYG_EN0163 | —
Maximum capacity (Max. load)	220.0000 g
Measured up to	220.0000 g
Scale interval	0.0001 g

Place of calibration

Address	According to page 1
Department | Cost center	Laboratory Department | —
Building | Floor	— | 1st Floor
Room	Balance Room
Maximum temperature variation at place of calibration	5 K

Calibration procedure

EURAMET Calibration Guide No. 18, Version 4.0 (11/2015) - Guidelines on the Calibration of Non-Automatic Weighing Instruments

Test equipment

Test equipment type	Test equipment ID	Valid until
Thermometer	Testo 174H H/T250743 (Traceable to SI unit through PNTECH)	18 Nov 2026
Test weight set OIML R111 E2	Certificate No.M25081495 E2(Traceable to SI unit through TCS)	19 Aug 2027

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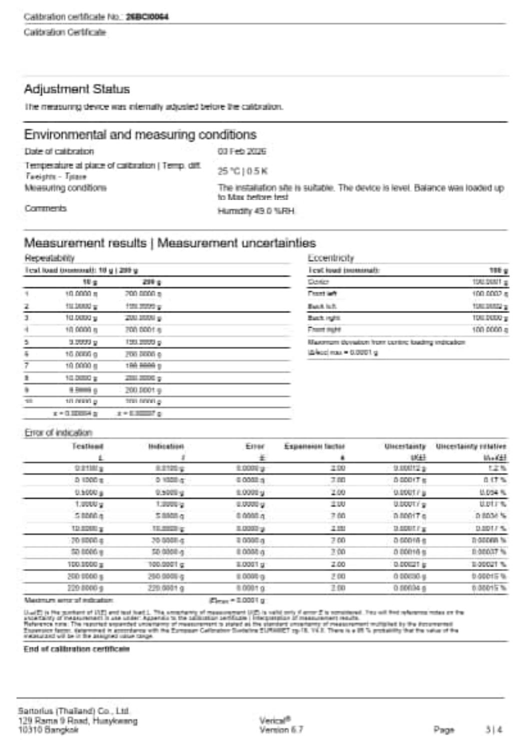

Calibration certificate No.: **26BCI0064**

Calibration Certificate

Adjustment Status

The measuring device was internally adjusted before the calibration.

Environmental and measuring conditions

Date of calibration	03 Feb 2026
Temperature at place of calibration | Temp. diff. $T_{weights} - T_{place}$	25 °C | 0.5 K
Measuring conditions	The installation site is suitable. The device is level. Balance was loaded up to Max before test
Comments	Humidity 49.0 %RH

Measurement results | Measurement uncertainties

Repeatability

Test load (nominal): 10 g | 200 g

	10 g	200 g
1	10.0000 g	200.0000 g
2	10.0000 g	199.9999 g
3	10.0000 g	200.0000 g
4	10.0000 g	200.0001 g
5	9.9999 g	199.9999 g
6	10.0000 g	200.0000 g
7	10.0000 g	199.9999 g
8	10.0000 g	200.0000 g
9	9.9999 g	200.0001 g
10	10.0000 g	200.0000 g
	s = 0.00004 g	s = 0.00007 g

Eccentricity

Test load (nominal):	100 g
Center	100.0001 g
Front left	100.0002 g
Back left	100.0002 g
Back right	100.0000 g
Front right	100.0000 g

Maximum deviation from centric loading indication $|\Delta I_{ecc}|$ max = 0.0001 g

Error of indication

Testload L	Indication I	Error E	Expansion factor k	Uncertainty $U(E)$	Uncertainty relative $U_{rel}(E)$
0.0100 g	0.0100 g	0.0000 g	2.00	0.00012 g	1.2 %
0.1000 g	0.1000 g	0.0000 g	2.00	0.00017 g	0.17 %
0.5000 g	0.5000 g	0.0000 g	2.00	0.00017 g	0.034 %
1.0000 g	1.0000 g	0.0000 g	2.00	0.00017 g	0.017 %
5.0000 g	5.0000 g	0.0000 g	2.00	0.00017 g	0.0034 %
10.0000 g	10.0000 g	0.0000 g	2.00	0.00017 g	0.0017 %
20.0000 g	20.0000 g	0.0000 g	2.00	0.00018 g	0.00088 %
50.0000 g	50.0000 g	0.0000 g	2.00	0.00018 g	0.00037 %
100.0000 g	100.0001 g	0.0001 g	2.00	0.00021 g	0.00021 %
200.0000 g	200.0000 g	0.0000 g	2.00	0.00030 g	0.00015 %
220.0000 g	220.0001 g	0.0001 g	2.00	0.00034 g	0.00015 %

Maximum error of indication $|E_{max}|$ = 0.0001 g

End of calibration certificate

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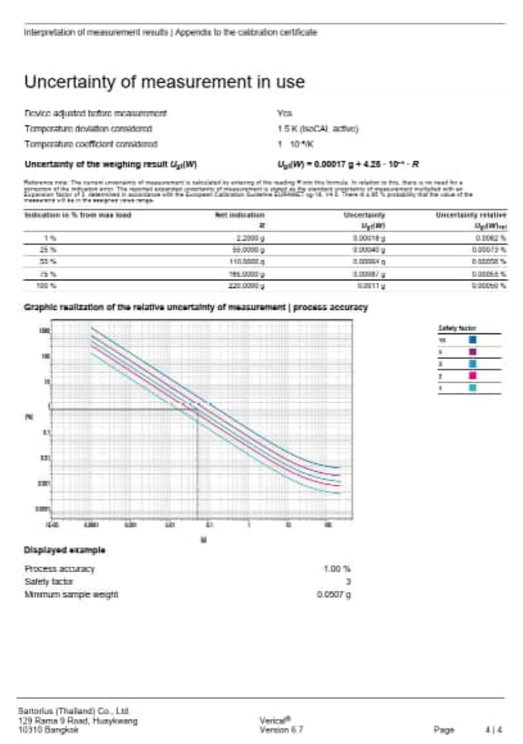

Interpretation of measurement results | Appendix to the calibration certificate

Uncertainty of measurement in use

Device adjusted before measurement	Yes
Temperature deviation considered	1.5 K (isoCAL active)
Temperature coefficient considered	1 · 10^{-6}/K
Uncertainty of the weighing result $U_{gl}(W)$	$U_{gl}(W) = 0.00017\ g + 4.25 \cdot 10^{-6} \cdot R$

Indication in % from max load	Net indication R	Uncertainty $U_{gl}(W)$	Uncertainty relative $U_{gl}(W)_{rel}$
1 %	2.2000 g	0.00018 g	0.0082 %
25 %	55.0000 g	0.00040 g	0.00073 %
50 %	110.0000 g	0.00064 g	0.00058 %
75 %	165.0000 g	0.00087 g	0.00053 %
100 %	220.0000 g	0.0011 g	0.00050 %

Graphic realization of the relative uncertainty of measurement | process accuracy

Displayed example

Process accuracy	1.00 %
Safety factor	3
Minimum sample weight	0.0507 g

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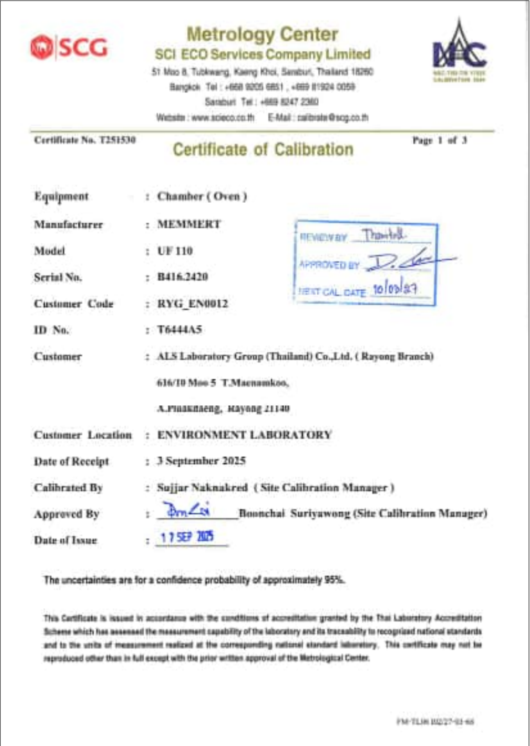

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SCI ECO Services Company Limited
51 Moo 8, Tubkwang, Kaeng Khoi, Saraburi, Thailand 18260
Bangkok Tel : +668 9205 6851 , +669 81924 0059
Saraburi Tel : +669 8247 2380
Website : www.scieco.co.th E-Mail : calibrate@scg.co.th

Certificate No. T251530 Page 1 of 3

Certificate of Calibration

Equipment : Chamber (Oven)
Manufacturer : MEMMERT
Model : UF 110
Serial No. : B416.2420
Customer Code : RYG_EN0012
ID No. : T6444A5
Customer : ALS Laboratory Group (Thailand) Co.,Ltd. (Rayong Branch)
616/10 Moo 5 T.Maenamkoo,
A.Pluakdaeng, Rayong 21140
Customer Location : ENVIRONMENT LABORATORY
Date of Receipt : 3 September 2025
Calibrated By : Sujjar Naknakred (Site Calibration Manager)
Approved By : Boonchai Suriyawong (Site Calibration Manager)
Date of Issue : 17 SEP 2025

REVIEW BY Thanitdl
APPROVED BY
NEXT CAL DATE 10/09/27

The uncertainties are for a confidence probability of approximately 95%.

This Certificate is issued in accordance with the conditions of accreditation granted by the Thai Laboratory Accreditation Scheme which has assessed the measurement capability of the laboratory and its traceability to recognized national standards and to the units of measurement realized at the corresponding national standard laboratory. This certificate may not be reproduced other than in full except with the prior written approval of the Metrological Center.

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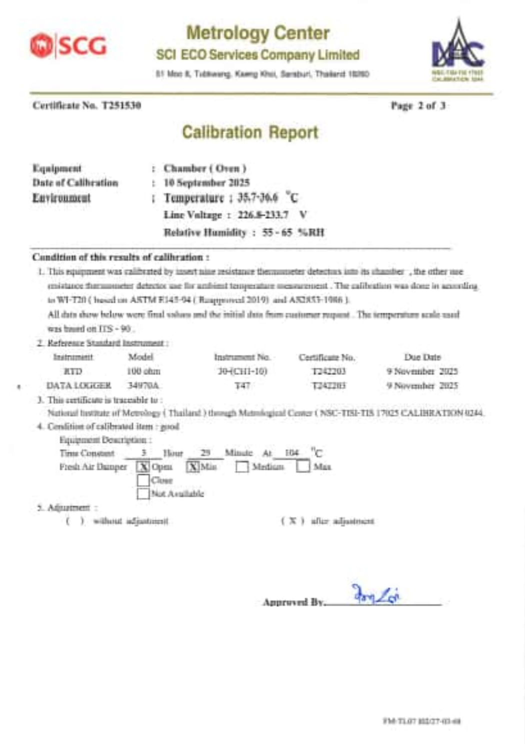

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SCI ECO Services Company Limited
51 Moo 8, Tubkwang, Kaeng Khoi, Saraburi, Thailand 18260

Certificate No. T251530 Page 2 of 3

Calibration Report

Equipment : Chamber (Oven)
Date of Calibration : 10 September 2025
Environment : Temperature : 35.7-36.6 °C
Line Voltage : 226.8-233.7 V
Relative Humidity : 55 - 65 %RH

Condition of this results of calibration :

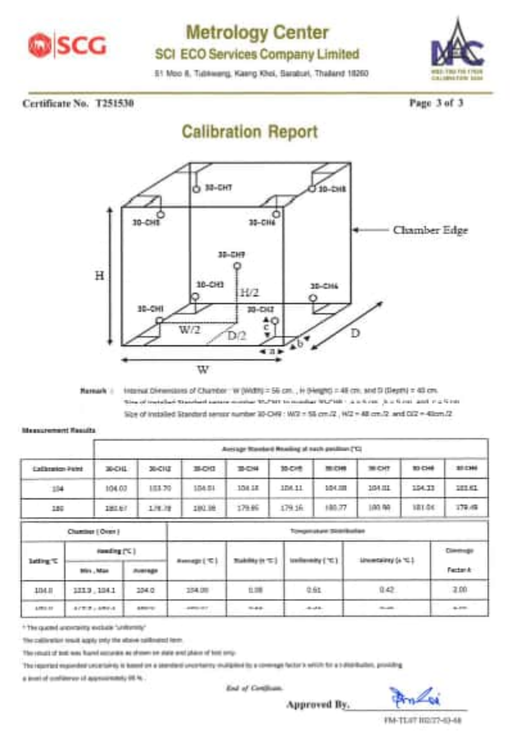
1. This equipment was calibrated by insert nine resistance thermometer detectors into its chamber , the other one resistance thermometer detector use for ambient temperature measurement . The calibration was done in according to WI-T20 (based on ASTM E145-94 (Reapproved 2019) and AS2853-1986).
All data show below were final values and the initial data from customer request . The temperature scale used was based on ITS - 90 .
2. Reference Standard Instrument :

Instrument	Model	Instrument No.	Certificate No.	Due Date
RTD	100 ohm	30-(CH1-10)	T242203	9 November 2025
DATA LOGGER	34970A	T47	T242203	9 November 2025

3. This certificate is traceable to :
National Institute of Metrology (Thailand) through Metrological Center (NSC-TISI-TIS 17025 CALIBRATION 0244.
4. Condition of calibrated item : good
Equipment Description :
Time Constant 3 Hour 29 Minute At 104 °C
Fresh Air Damper ☒ Open ☒ Min ☐ Medium ☐ Max
☐ Close
☐ Not Available
5. Adjustment :
( ) without adjustment (X) after adjustment

Approved By.

FM-TL07 I02/27-03-68



Metrology Center
SCI ECO Services Company Limited
51 Moo 8, Tubkwang, Kaeng Khoi, Saraburi, Thailand 18260

Certificate No. T251530 Page 3 of 3

Calibration Report

30-CH7
30-CH8
30-CH5
30-CH6
Chamber Edge
30-CH9
H
30-CH3
H/2
30-CH4
30-CH1
30-CH2
W/2
D/2
c
b
a
D
W

Remark : Internal Dimensions of Chamber : W (Width) = 56 cm. , H (Height) = 48 cm. and D (Depth) = 40 cm.
Size of installed Standard sensor number 30-CH1 to number 30-CH8 : a = 5 cm. , b = 5 cm. and c = 5 cm.
Size of installed Standard sensor number 30-CH9 : W/2 = 56 cm./2 , H/2 = 48 cm./2 and D/2 = 40cm./2

Measurement Results

	Average Standard Reading at each position (°C)								
Calibration Point	30-CH1	30-CH2	30-CH3	30-CH4	30-CH5	30-CH6	30-CH7	30-CH8	30-CH9
104	104.03	103.70	104.01	104.18	104.11	104.08	104.01	104.33	103.61
180	180.67	179.78	180.38	179.85	179.16	180.77	180.90	181.04	179.49

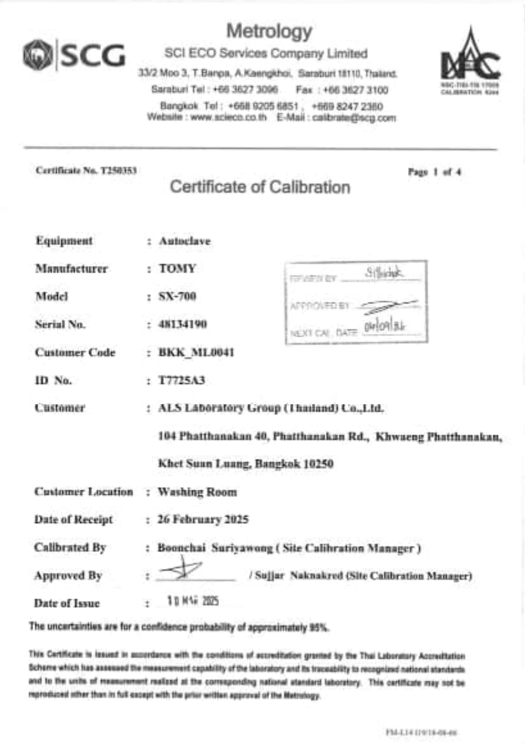
Chamber (Oven)			Temperature Distribution				
Setting °C	Reading (°C)		Average (°C)	Stability (± °C)	Uniformity (°C)	Uncertainty (± °C)	Coverage Factor k
	Min , Max	Average					
104.0	103.9 , 104.1	104.0	104.00	0.08	0.61	0.42	2.00
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

* The quoted uncertainty exclude "uniformity"
The calibration result apply only the above calibrated item.
The result of test was found accurate as shown on date and place of test only.
The reported expanded uncertainty is based on a standard uncertainty multiplied by a coverage factor k which for a t-distribution, providing a level of confidence of approximately 95 % .

End of Certificate

Approved By.

FM-TL07 I02/27-03-68



Metrology
SCI ECO Services Company Limited
33/2 Moo 3, T.Banpa, A.Kaengkhoi, Saraburi 18110, Thailand.
Saraburi Tel : +66 3627 3096 Fax : +66 3627 3100
Bangkok Tel : +668 9205 6851 , +669 8247 2380
Website : www.scieco.co.th E-Mail : calibrate@scg.com

Certificate No. T250353 Page 1 of 4

Certificate of Calibration

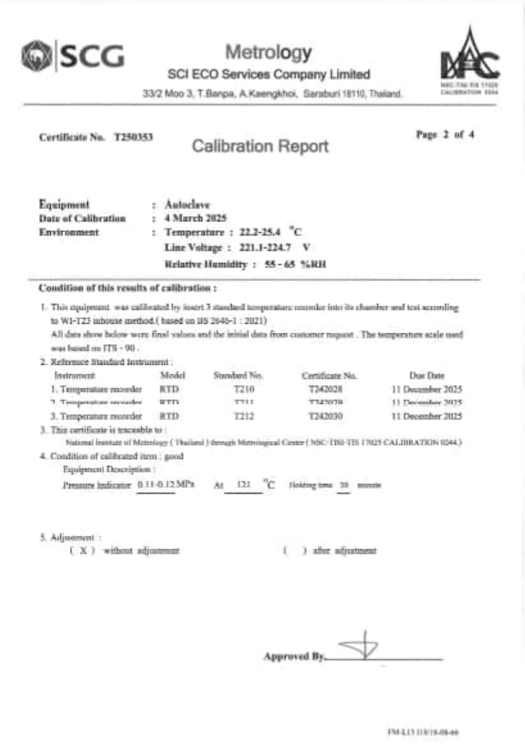
Equipment : Autoclave
Manufacturer : TOMY
Model : SX-700
Serial No. : 48134190
Customer Code : BKK_ML0041
ID No. : T7725A3
Customer : ALS Laboratory Group (Thailand) Co.,Ltd.
104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan,
Khet Suan Luang, Bangkok 10250
Customer Location : Washing Room
Date of Receipt : 26 February 2025
Calibrated By : Boonchai Suriyawong (Site Calibration Manager)
Approved By : / Sujjar Naknakred (Site Calibration Manager)
Date of Issue : 10 MAR 2025

REVIEW BY Sitthichok
APPROVED BY
NEXT CAL. DATE 04/03/26

The uncertainties are for a confidence probability of approximately 95%.

This Certificate is issued in accordance with the conditions of accreditation granted by the Thai Laboratory Accreditation Scheme which has assessed the measurement capability of the laboratory and its traceability to recognized national standards and to the units of measurement realized at the corresponding national standard laboratory. This certificate may not be reproduced other than in full except with the prior written approval of the Metrology.

FM-L14 I19/18-08-66



Metrology
SCI ECO Services Company Limited
33/2 Moo 3, T.Banpa, A.Kaengkhoi, Saraburi 18110, Thailand.

Certificate No. T250353 Page 2 of 4

Calibration Report

Equipment : Autoclave
Date of Calibration : 4 March 2025
Environment : Temperature : 22.2-25.4 °C
Line Voltage : 221.1-224.7 V
Relative Humidity : 55 - 65 %RH

Condition of this results of calibration :

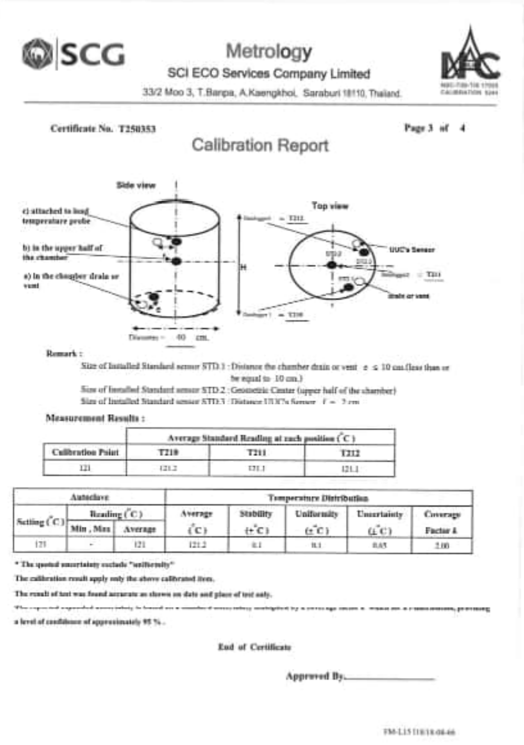
1. This equipment was calibrated by insert 3 standard temperature recorder into its chamber and test according to WI-T23 inhouse method.(based on BS 2646-1 : 2021)
All data show below were final values and the initial data from customer request . The temperature scale used was based on ITS - 90 .
2. Reference Standard Instrument :

Instrument	Model	Standard No.	Certificate No.	Due Date
1. Temperature recorder	RTD	T210	T242028	11 December 2025
2. Temperature recorder	RTD	T211	T242029	11 December 2025
3. Temperature recorder	RTD	T212	T242030	11 December 2025

3. This certificate is traceable to :
National Institute of Metrology (Thailand) through Metrological Center (NSC-TISI-TIS 17025 CALIBRATION 0244.)
4. Condition of calibrated item : good
Equipment Description :
Pressure Indicator 0.11-0.12 MPa At 121 °C Holding time 20 minute
5. Adjustment :
(X) without adjustment ( ) after adjustment

Approved By.

FM-L15 I18/18-08-66



Metrology
SCI ECO Services Company Limited
33/2 Moo 3, T.Banpa, A.Kaengkhoi, Saraburi 18110, Thailand.

Certificate No. T250353 Page 3 of 4

Calibration Report

Side view
c) attached to load temperature probe
b) in the upper half of the chamber
a) in the chamber drain or vent
Top view
Datalogger3 = T212
UUC's Sensor
STD.2
STD.3
STD.1
H
Datalogger2 = T211
drain or vent
Datalogger1 = T210
Diameter = 40 cm.

Remark :
Size of Installed Standard sensor STD.1 : Distance the chamber drain or vent e ≤ 10 cm.(less than or be equal to 10 cm.)
Size of Installed Standard sensor STD.2 : Geometric Center (upper half of the chamber)
Size of Installed Standard sensor STD.3 : Distance UUC's Sensor f = 2 cm

Measurement Results :

	Average Standard Reading at each position (°C)		
Calibration Point	T210	T211	T212
121	121.2	121.1	121.1

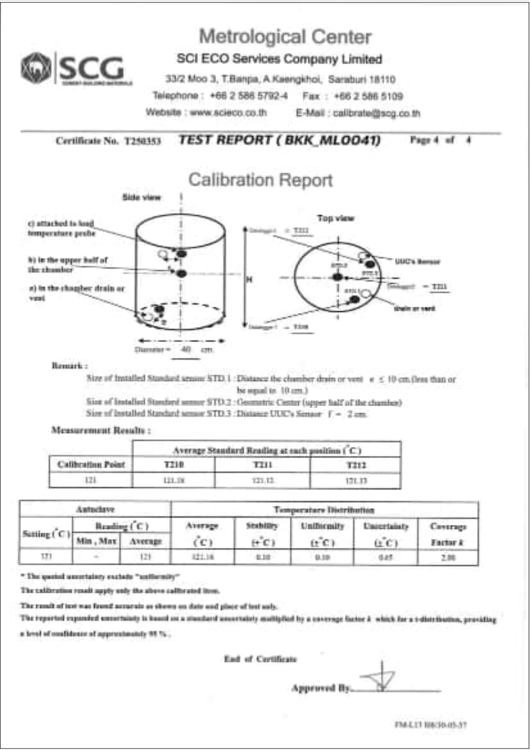
Autoclave			Temperature Distribution				
Setting (°C)	Reading (°C)		Average (°C)	Stability (±°C)	Uniformity (±°C)	Uncertainty (±°C)	Coverage Factor k
	Min , Max	Average					
121	-	121	121.2	0.1	0.1	0.65	2.00

* The quoted uncertainty exclude "uniformity"
The calibration result apply only the above calibrated item.
The result of test was found accurate as shown on date and place of test only.
The reported expanded uncertainty is based on a standard uncertainty multiplied by a coverage factor k which for a t-distribution, providing a level of confidence of approximately 95 % .

End of Certificate

Approved By.

FM-L15 I18/18-08-66



Metrological Center
SCI ECO Services Company Limited
33/2 Moo 3, T.Banpa, A.Kaengkhoi, Saraburi 18110
Telephone : +66 2 586 5792-4 Fax : +66 2 586 5109
Website : www.scieco.co.th E-Mail : calibrate@scg.co.th

Certificate No. T250353 ***TEST REPORT (BKK_MLOO41)*** Page 4 of 4

Calibration Report

Side view
c) attached to load temperature probe
b) in the upper half of the chamber
a) in the chamber drain or vent
Top view
Datalogger3 = T212
UUC's Sensor
STD.2
STD.3
STD.1
H
Datalogger2 = T211
drain or vent
Datalogger1 = T210
Diameter = 40 cm.

Remark :
Size of Installed Standard sensor STD.1 : Distance the chamber drain or vent e ≤ 10 cm.(less than or be equal to 10 cm.)
Size of Installed Standard sensor STD.2 : Geometric Center (upper half of the chamber)
Size of Installed Standard sensor STD.3 : Distance UUC's Sensor f = 2 cm.

Measurement Results :

	Average Standard Reading at each position (°C)		
Calibration Point	T210	T211	T212
121	121.18	121.12	121.13

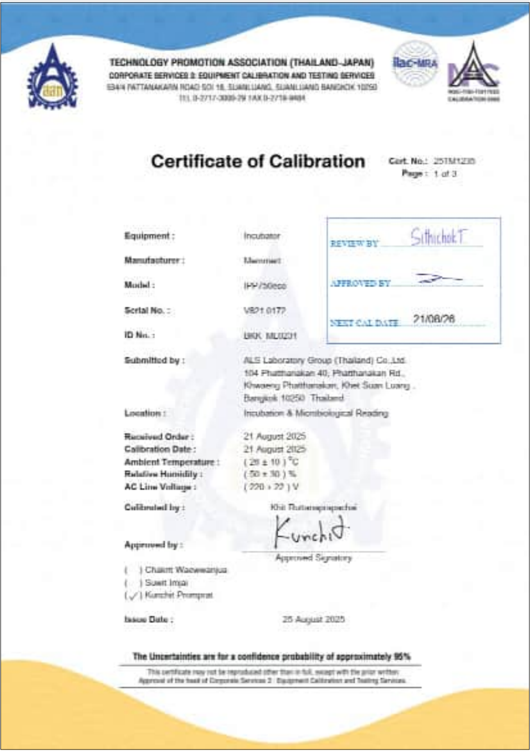
Autoclave			Temperature Distribution				
Setting (°C)	Reading (°C)		Average (°C)	Stability (±°C)	Uniformity (±°C)	Uncertainty (±°C)	Coverage Factor k
	Min , Max	Average					
121	-	121	121.16	0.10	0.10	0.65	2.00

* The quoted uncertainty exclude "uniformity"
The calibration result apply only the above calibrated item.
The result of test was found accurate as shown on date and place of test only.
The reported expanded uncertainty is based on a standard uncertainty multiplied by a coverage factor k which for a t-distribution, providing a level of confidence of approximately 95 % .

End of Certificate

Approved By.

FM-L13 I08/30-05-57



TECHNOLOGY PROMOTION ASSOCIATION (THAILAND-JAPAN)
CORPORATE SERVICES 2: EQUIPMENT CALIBRATION AND TESTING SERVICES
5345 PATTANAKARN ROAD SOI 18, SUANLUANG, SUANLUANG BANGKOK 10250
TEL 0-2717-3000-29 FAX 0-2719-9484

Certificate of Calibration

Cert. No.: 25TM1235
Page : 1 of 3

Equipment : Incubator
Manufacturer : Memmert
Model : IPP/30eco
Serial No. : V821 0177
ID No. : BKK_ML0231
Submitted by : ALS Laboratory Group (Thailand) Co.,Ltd.
104 Phatthanakan 40, Phatthanakan Rd.,
Khwaeng Phatthanakan, Khet Suan Luang ,
Bangkok 10250 Thailand
Location : Incubation & Microbiological Reading
Received Order : 21 August 2025
Calibration Date : 21 August 2025
Ambient Temperature : (25 ± 10) °C
Relative Humidity : (50 ± 30) %
AC Line Voltage : (220 ± 22) V
Calibrated by : Khit Ruttanapranpachai
Approved by : Kunchit
Approved Signatory
( ) Chakrit Waowwanjua
( ) Suwit Impai
(✓) Kunchit Prompral
Issue Date : 25 August 2025

REVIEW BY SithichokT
APPROVED BY
NEXT CAL DATE 21/08/26

The Uncertainties are for a confidence probability of approximately 95%

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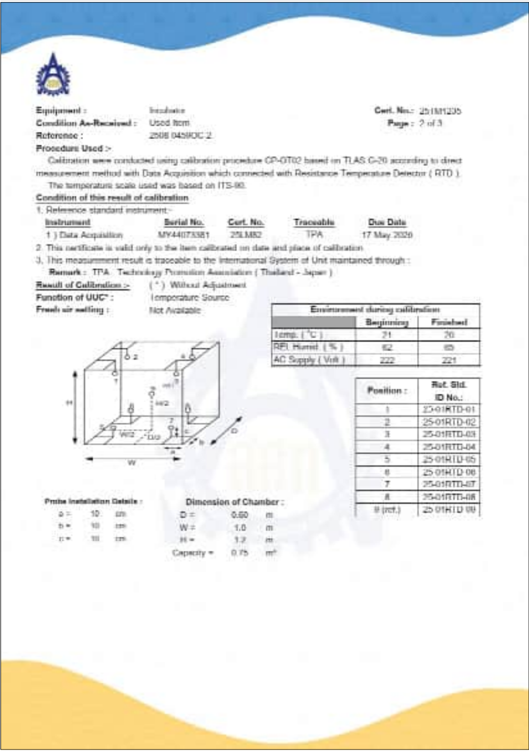


Equipment : Incubator
Condition As-Received : Used Item
Reference : 2508 045IOC 2
Cert. No.: 25TM1235
Page : 2 of 3

Procedure Used :-
Calibration were conducted using calibration procedure CP-GT02 based on TLAS G-20 according to direct measurement method with Data Acquisition which connected with Resistance Temperature Detector (RTD).
The temperature scale used was based on ITS-90.

Condition of this result of calibration
1. Reference standard instrument:-

Instrument	Serial No.	Cert. No.	Traceable	Due Date
1) Data Acquisition	MY44073381	25LM82	TPA	17 May 2026

2. This certificate is valid only to the item calibrated on date and place of calibration.
3. This measurement result is traceable to the International System of Unit maintained through :
Remark : TPA Technology Promotion Association (Thailand - Japan)

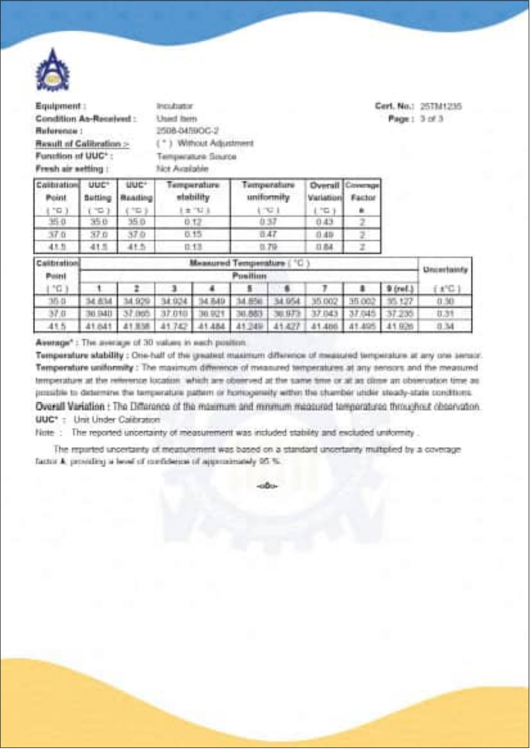
Result of Calibration :- (*) Without Adjustment
Function of UUC* : Temperature Source
Fresh air setting : Not Available

Environment during calibration		
	Beginning	Finished
Temp. (°C)	21	20
REL Humid. (%)	62	65
AC Supply (Volt)	222	221

Position :	Ref. Std. ID No.:
1	25-01RTD-01
2	25-01RTD-02
3	25-01RTD-03
4	25-01RTD-04
5	25-01RTD-05
6	25-01RTD-06
7	25-01RTD-07
8	25-01RTD-08
9 (ref.)	25-01RTD-09

Probe Installation Details :
a = 10 cm
b = 10 cm
c = 10 cm

Dimension of Chamber :
D = 0.60 m
W = 1.0 m
H = 1.2 m
Capacity = 0.75 m³



Equipment : Incubator
Condition As-Received : Used Item
Reference : 2508-0459OC-2
Result of Calibration :- (*) Without Adjustment
Function of UUC* : Temperature Source
Fresh air setting : Not Available

Cert. No.: 25TM1235
Page : 3 of 3

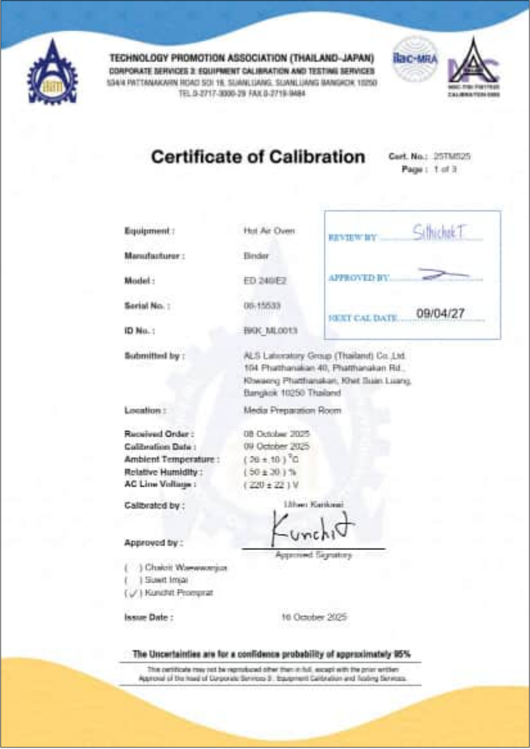
Calibration Point (°C)	UUC* Setting (°C)	UUC* Reading (°C)	Temperature stability (± °C)	Temperature uniformity (°C)	Overall Variation (°C)	Coverage Factor *k*
35.0	35.0	35.0	0.12	0.37	0.43	2
37.0	37.0	37.0	0.15	0.47	0.49	2
41.5	41.5	41.5	0.13	0.79	0.84	2

Calibration Point	Measured Temperature (°C)									Uncertainty
	Position									
(°C)	1	2	3	4	5	6	7	8	9 (ref.)	(±°C)
35.0	34.834	34.929	34.924	34.849	34.856	34.954	35.002	35.002	35.127	0.30
37.0	36.940	37.065	37.010	36.921	36.883	36.973	37.043	37.045	37.235	0.31
41.5	41.641	41.838	41.742	41.484	41.249	41.427	41.466	41.495	41.926	0.34

Average* : The average of 30 values in each position.
Temperature stability : One-half of the greatest maximum difference of measured temperature at any one sensor.
Temperature uniformity : The maximum difference of measured temperatures at any sensors and the measured temperature at the reference location which are observed at the same time or at as close an observation time as possible to determine the temperature pattern or homogeneity within the chamber under steady-state conditions.
Overall Variation : The Difference of the maximum and minimum measured temperatures throughout observation.
UUC* : Unit Under Calibration
Note : The reported uncertainty of measurement was included stability and excluded uniformity .

The reported uncertainty of measurement was based on a standard uncertainty multiplied by a coverage factor *k*, providing a level of confidence of approximately 95 %.

-o0o-



TECHNOLOGY PROMOTION ASSOCIATION (THAILAND-JAPAN)
CORPORATE SERVICES 3: EQUIPMENT CALIBRATION AND TESTING SERVICES
5/4/4 PATTANAKARN ROAD SOI 18, SUANLUANG, SUANLUANG BANGKOK 10250
TEL.0-2717-3000-29 FAX.0-2719-9484

Certificate of Calibration

Cert. No.: 25TM525
Page : 1 of 3

Equipment : Hot Air Oven
Manufacturer : Binder
Model : ED 240/E2
Serial No. : 06-15533
ID No. : BKK_ML0013
Submitted by : ALS Laboratory Group (Thailand) Co.,Ltd.
104 Phatthanakan 40, Phatthanakan Rd.,
Khwaeng Phatthanakan, Khet Suan Luang,
Bangkok 10250 Thailand
Location : Media Preparation Room
Received Order : 08 October 2025
Calibration Date : 09 October 2025
Ambient Temperature : (26 ± 10) °C
Relative Humidity : (50 ± 30) %
AC Line Voltage : (220 ± 22) V
Calibrated by : Uthen Kankaw
Approved by : Kunchit
Approved Signatory
( ) Chakrit Waewwonjua
( ) Suwit Imjai
(✓) Kunchit Prompat

Issue Date : 16 October 2025

REVIEW BY Sithichok T
APPROVED BY
NEXT CAL DATE 09/04/27

The Uncertainties are for a confidence probability of approximately 95%

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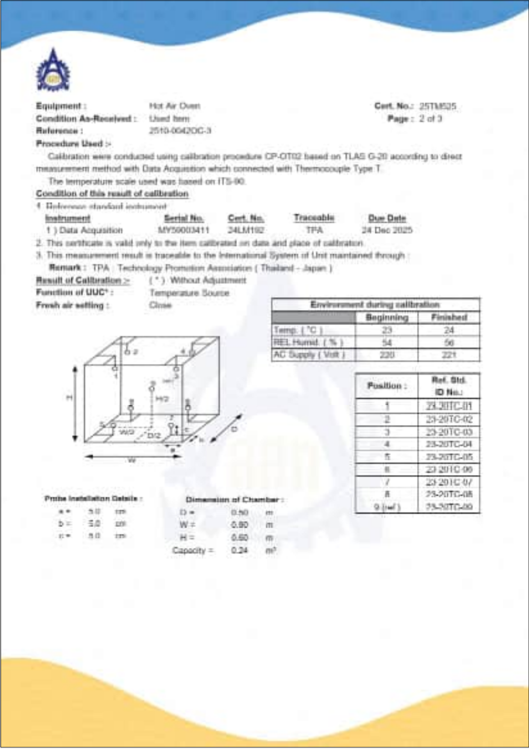


Equipment : Hot Air Oven
Condition As-Received : Used Item
Reference : 2510-0042OC-3

Cert. No.: 25TM525
Page : 2 of 3

Procedure Used :-

Calibration were conducted using calibration procedure CP-OT02 based on TLAS G-20 according to direct measurement method with Data Acquisition which connected with Thermocouple Type T.

The temperature scale used was based on ITS-90.

Condition of this result of calibration

1. Reference standard instrument

Instrument	Serial No.	Cert. No.	Traceable	Due Date
1) Data Acqusition	MY59003411	24LM192	TPA	24 Dec 2025

2. This certificate is valid only to the item calibrated on data and place of calibration.
3. This measurement result is traceable to the International System of Unit maintained through :

Remark : TPA : Technology Promotion Association (Thailand - Japan)

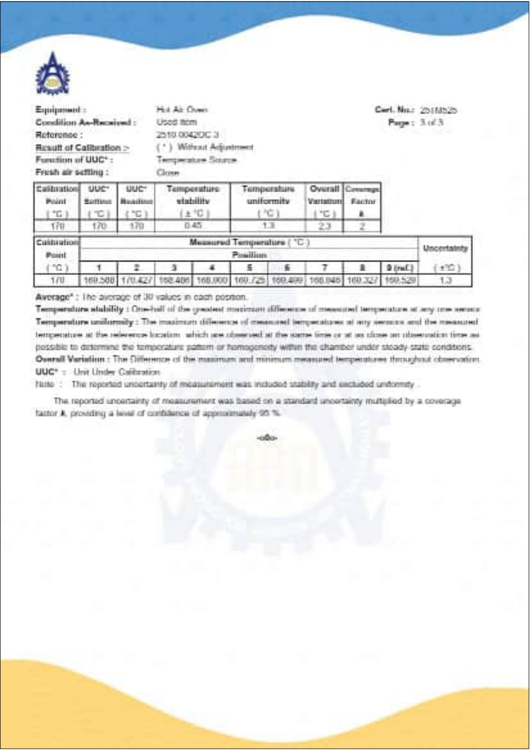
Result of Calibration :- (*) Without Adjustment
Function of UUC* : Temperature Source
Fresh air setting : Close

Environment during calibration	Beginning	Finished
Temp. (°C)	23	24
REL Humid. (%)	54	56
AC Supply (Volt)	220	221

Position :	Ref. Std. ID No.:
1	23-20TC-01
2	23-20TC-02
3	23-20TC-03
4	23-20TC-04
5	23-20TC-05
6	23-20TC-06
7	23-20TC-07
8	23-20TC-08
9 (ref.)	23-20TC-09

Probe Installation Details :
a = 5.0 cm
b = 5.0 cm
c = 5.0 cm

Dimension of Chamber :
D = 0.50 m
W = 0.80 m
H = 0.60 m
Capacity = 0.24 m³



Equipment : Hot Air Oven
Condition As-Received : Used Item
Reference : 2510-0042OC-3
Result of Calibration :- (*) Without Adjustment
Function of UUC* : Temperature Source
Fresh air setting : Close

Cert. No.: 25TM525
Page : 3 of 3

Calibration Point (°C)	UUC* Setting (°C)	UUC* Reading (°C)	Temperature stability (± °C)	Temperature uniformity (°C)	Overall Variation (°C)	Coverage Factor *k*
170	170	170	0.45	1.3	2.3	2

Calibration Point	Measured Temperature (°C)									Uncertainty
	Position									
(°C)	1	2	3	4	5	6	7	8	9 (ref.)	(±°C)
170	169.588	170.427	168.486	168.900	169.725	169.499	168.946	169.327	169.529	1.3

Average* : The average of 30 values in each position.
Temperature stability : One-half of the greatest maximum difference of measured temperature at any one sensor.
Temperature uniformity : The maximum difference of measured temperatures at any sensors and the measured temperature at the reference location which are observed at the same time or at as close an observation time as possible to determine the temperature pattern or homogeneity within the chamber under steady-state conditions.
Overall Variation : The Difference of the maximum and minimum measured temperatures throughout observation.
UUC* : Unit Under Calibration
Note : The reported uncertainty of measurement was included stability and excluded uniformity .

The reported uncertainty of measurement was based on a standard uncertainty multiplied by a coverage factor *k*, providing a level of confidence of approximately 95 %.

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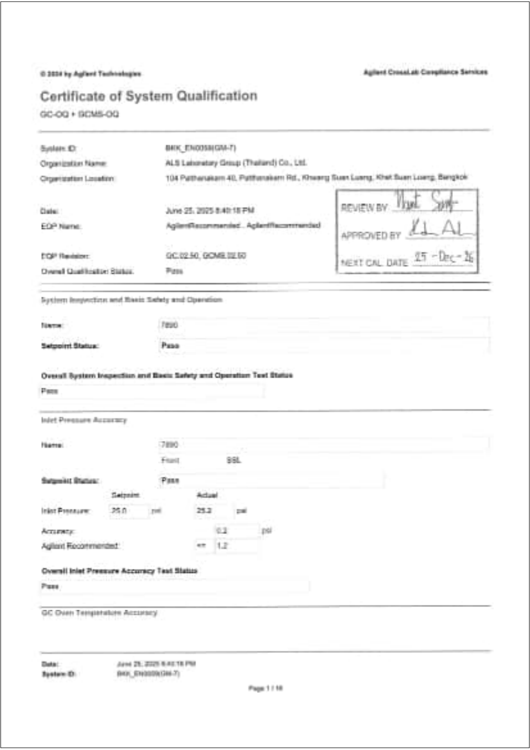

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Certificate of System Qualification

GC-OQ + GCMS-OQ

System ID: BKK_EN0058(GM-7)
Organization Name: ALS Laboratory Group (Thailand) Co., Ltd.
Organization Location: 104 Patthanakarn 40, Patthanakarn Rd., Khwang Suan Luang, Khet Suan Luang, Bangkok

Date: June 25, 2025 8:40:18 PM
EQP Name: AgilentRecommended.. AgilentRecommended
EQP Revision: GC.02.50, GCMS.02.50
Overall Qualification Status: Pass

REVIEW BY
APPROVED BY
NEXT CAL. DATE 25 - Dec - 26

System Inspection and Basic Safety and Operation

Name: 7890
Setpoint Status: Pass

Overall System Inspection and Basic Safety and Operation Test Status
Pass

Inlet Pressure Accuracy

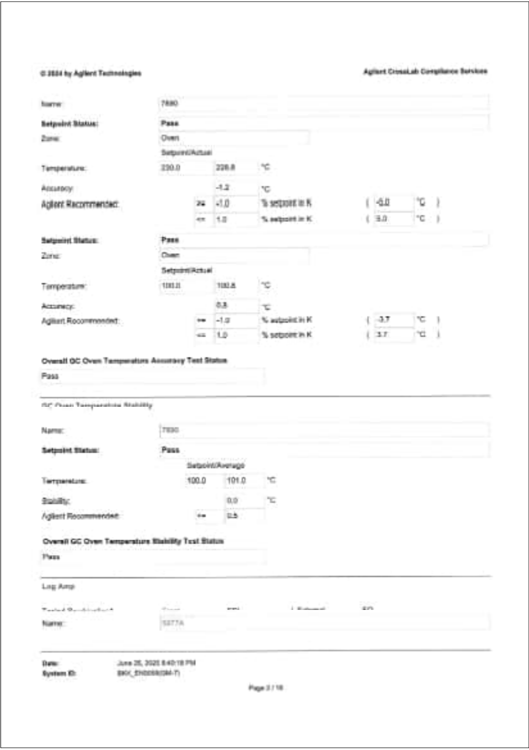
Name: 7890
Front SSL
Setpoint Status: Pass
Setpoint / Actual
Inlet Pressure: 25.0 psi 25.2 psi
Accuracy: 0.2 psi
Agilent Recommended: <= 1.2

Overall Inlet Pressure Accuracy Test Status
Pass

GC Oven Temperature Accuracy

Date: June 25, 2025 8:40:18 PM
System ID: BKK_EN0058(GM-7)

Page 1 / 18



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Name: 7890
Setpoint Status: Pass
Zone: Oven
Setpoint/Actual
Temperature: 230.0 228.8 °C
Accuracy: -1.2 °C
Agilent Recommended: >= -1.0 % setpoint in K (-5.0 °C)
<= 1.0 % setpoint in K (5.0 °C)

Setpoint Status: Pass
Zone: Oven
Setpoint/Actual
Temperature: 100.0 100.8 °C
Accuracy: 0.8 °C
Agilent Recommended: >= -1.0 % setpoint in K (-3.7 °C)
<= 1.0 % setpoint in K (3.7 °C)

Overall GC Oven Temperature Accuracy Test Status
Pass

GC Oven Temperature Stability

Name: 7890
Setpoint Status: Pass
Setpoint/Average
Temperature: 100.0 101.0 °C
Stability: 0.0 °C
Agilent Recommended: <= 0.5

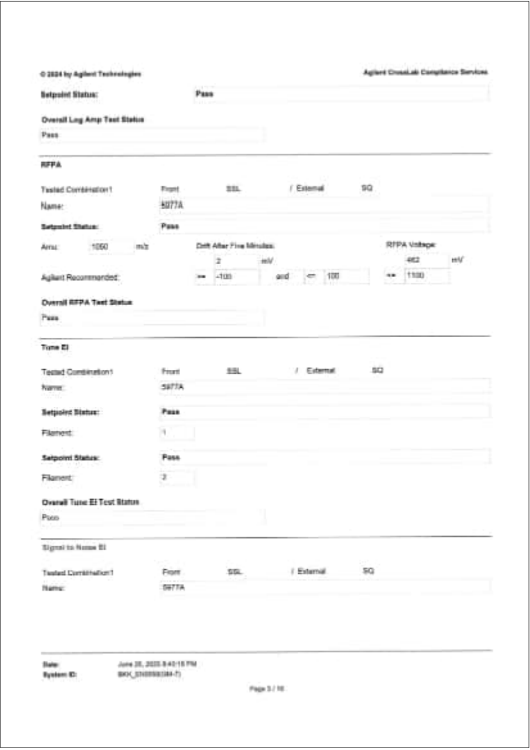
Overall GC Oven Temperature Stability Test Status
Pass

Log Amp

Tested Combination1 Front SSL / External SQ
Name: 5977A

Date: June 25, 2025 8:40:18 PM
System ID: BKK_EN0058(GM-7)

Page 2 / 18



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Setpoint Status: Pass

Overall Log Amp Test Status
Pass

RFPA

Tested Combination1 Front SSL / External SQ
Name: 5977A
Setpoint Status: Pass
Amu: 1050 m/z
Drift After Five Minutes: 2 mV
RFPA Voltage: 462 mV
Agilent Recommended: >= -100 and <= 100 <= 1100

Overall RFPA Test Status
Pass

Tune EI

Tested Combination1 Front SSL / External SQ
Name: 5977A
Setpoint Status: Pass
Filament: 1
Setpoint Status: Pass
Filament: 2

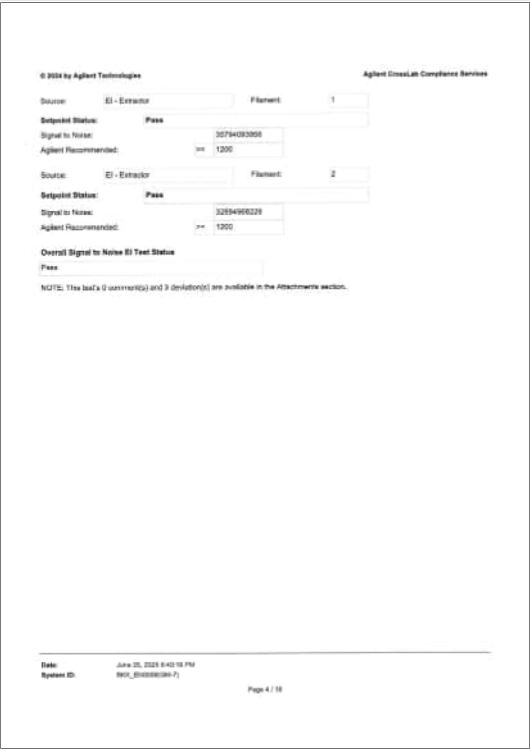
Overall Tune EI Test Status
Pass

Signal to Noise EI

Tested Combination1 Front SSL / External SQ
Name: 5977A

Date: June 25, 2025 8:40:18 PM
System ID: BKK_EN0058(GM-7)

Page 3 / 18



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Source: EI - Extractor Filament: 1
Setpoint Status: Pass
Signal to Noise: 35794093956
Agilent Recommended: >= 1200

Source: EI - Extractor Filament: 2
Setpoint Status: Pass
Signal to Noise: 32894966228
Agilent Recommended: >= 1200

Overall Signal to Noise EI Test Status
Pass

NOTE: This test's 0 comment(s) and 3 deviation(s) are available in the Attachments section.

Date: June 25, 2025 8:40:18 PM
System ID: BKK_EN0058(GM-7)

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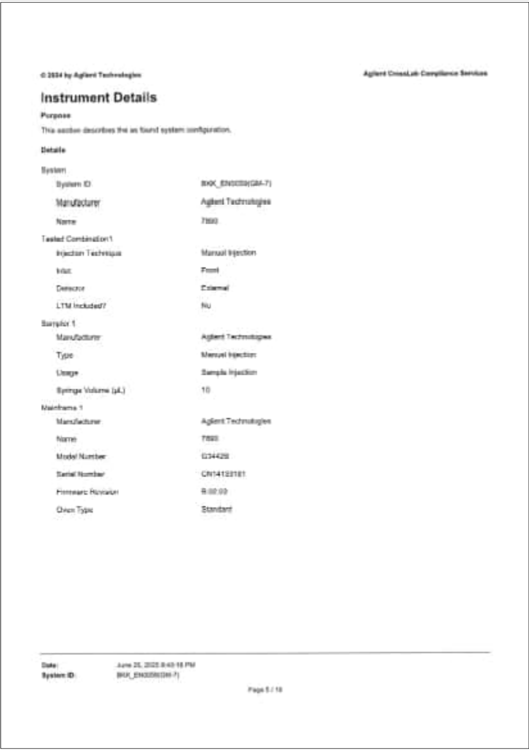

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Instrument Details

Purpose

This section describes the as found system configuration.

Details

System
- System ID: BKK_EN0058(GM-7)
- Manufacturer: Agilent Technologies
- Name: 7890

Tested Combination1
- Injection Technique: Manual Injection
- Inlet: Front
- Detector: External
- LTM Included?: No

Sampler 1
- Manufacturer: Agilent Technologies
- Type: Manual Injection
- Usage: Sample Injection
- Syringe Volume (µL): 10

Mainframe 1
- Manufacturer: Agilent Technologies
- Name: 7890
- Model Number: G3442B
- Serial Number: CN14123181
- Firmware Revision: B.02.03
- Oven Type: Standard

Date: June 25, 2025 8:40:18 PM
System ID: BKK_EN0058(GM-7)

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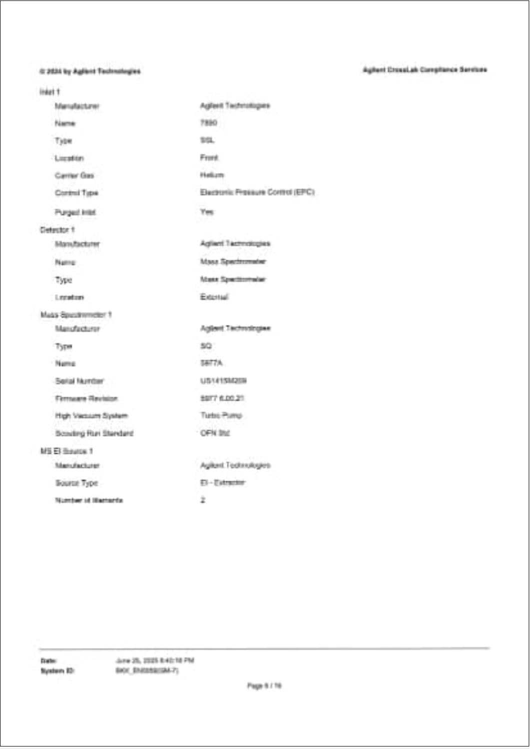

Inlet 1

Manufacturer	Agilent Technologies
Name	7890
Type	SSL
Location	Front
Carrier Gas	Helium
Control Type	Electronic Pressure Control (EPC)
Purged Inlet	Yes

Detector 1

Manufacturer	Agilent Technologies
Name	Mass Spectrometer
Type	Mass Spectrometer
Location	External

Mass Spectrometer 1

Manufacturer	Agilent Technologies
Type	SQ
Name	5977A
Serial Number	US1415M209
Firmware Revision	5977 6.00.21
High Vacuum System	Turbo Pump
Scouting Run Standard	OFN Std

MS EI Source 1

Manufacturer	Agilent Technologies
Source Type	EI - Extractor
Number of filaments	2

Electronic Signature

Purpose

This signature page was created and published because the ACE sign-off action was executed, which is valid for the entire document, including attachments. The ACE sign-off is an electronic signature that requires two distinct identification components: unique username and personal password. The Agilent representative who has delivered this service understands the meaning and legal status of an electronic signature. As a trained official operator, the Agilent representative has a unique password and logon to access ACE and electronically sign this document. (Other e-signatures can be applied to this document using a Document Content Management or other suitable method defined in your data access and control procedures.)

Details

Full Name of Signer:	Supasak Nimsongtham
Logged On User Name:	supasak.nimsongtham@agilent.com
Signature Creation Date:	June 25, 2025
Reason for Signature:	Executed protocol and published this original version of document

ACE Self Qualification Status

The installed version of ACE used to deliver this service passed qualification, the results conform with expected values. The self qualification summary report is available in the session folder location SDS\ClearStore\AceSelfQualification.

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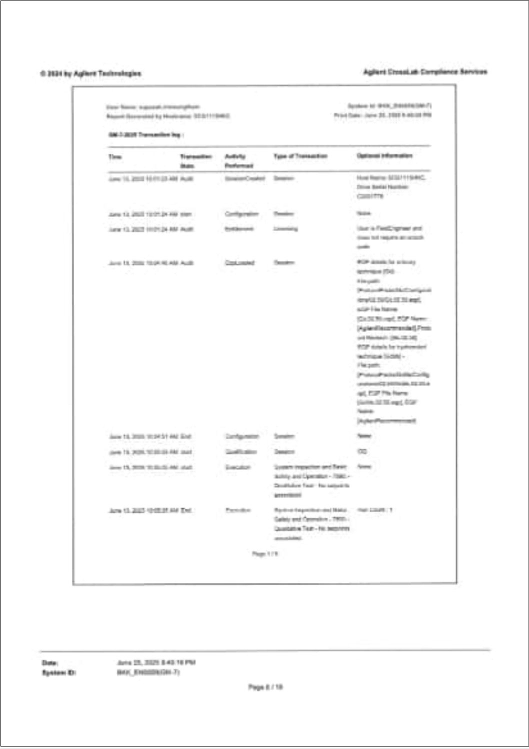

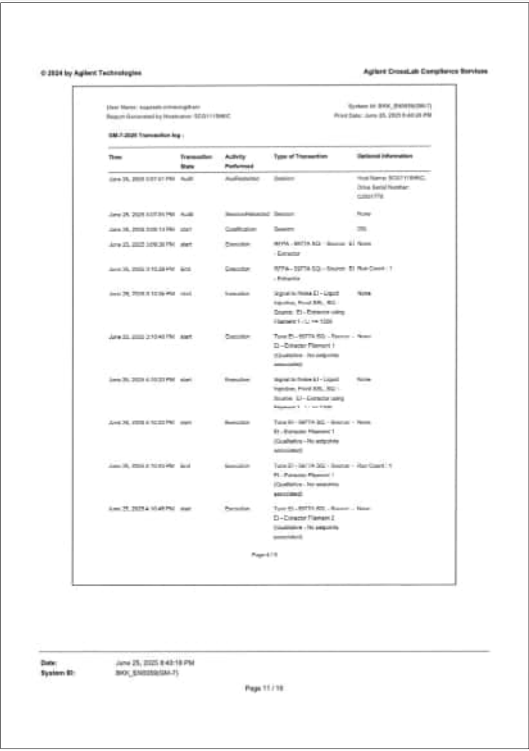

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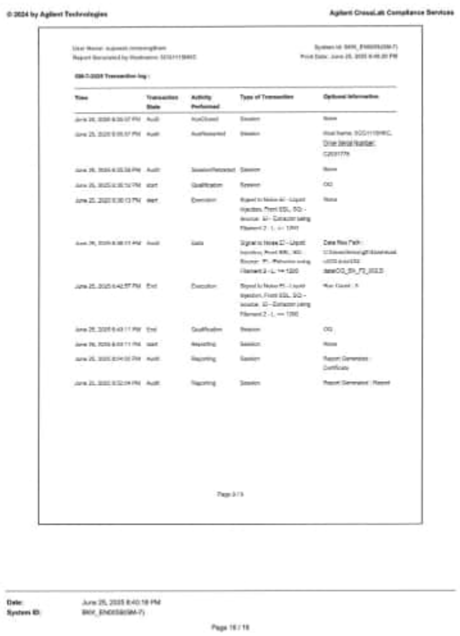

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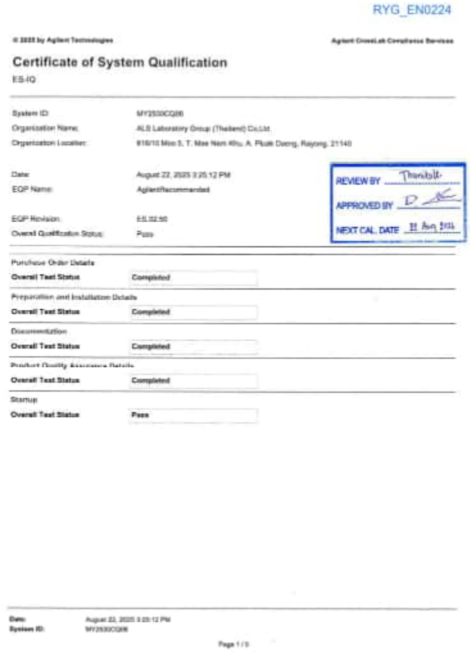

RYG_EN0224

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Certificate of System Qualification

ES-IQ

System ID: MY2530CQ06
Organization Name: ALS Laboratory Group (Thailand) Co.Ltd.
Organization Location: 616/10 Moo 5, T. Mae Nam Khu, A. Pluak Daeng, Rayong, 21140

Date: August 22, 2025 3:25:12 PM
EQP Name: AgilentRecommended

EQP Revision: ES.02.50
Overall Qualification Status: Pass

REVIEW BY Thanitcha
APPROVED BY
NEXT CAL. DATE 21 Aug 2026

Purchase Order Details
Overall Test Status Completed

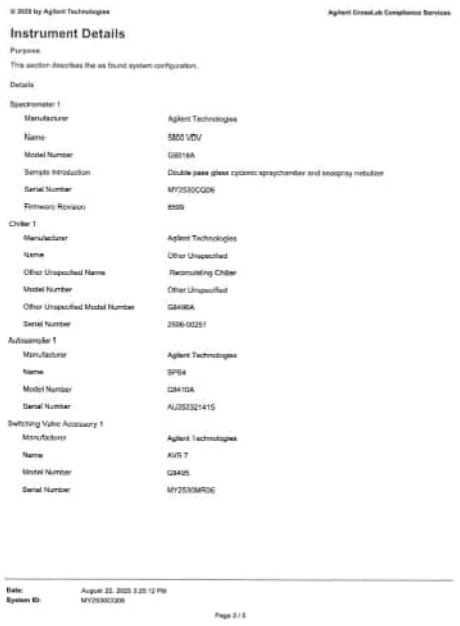
Preparation and Installation Details
Overall Test Status Completed

Documentation
Overall Test Status Completed

Product Quality Assurance Details
Overall Test Status Completed

Startup
Overall Test Status Pass

Date: August 22, 2025 3:25:12 PM
System ID: MY2530CQ06
Page 1 / 5



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Instrument Details

Purpose

This section describes the as found system configuration.

Details

Spectrometer 1	
Manufacturer	Agilent Technologies
Name	5800 VDV
Model Number	G8016A
Sample Introduction	Double pass glass cyclonic spraychamber and seaspray nebulizer
Serial Number	MY2530CQ06
Firmware Revision	6509
Chiller 1	
Manufacturer	Agilent Technologies
Name	Other Unspecified
Other Unspecified Name	Recirculating Chiller
Model Number	Other Unspecified
Other Unspecified Model Number	G8496A
Serial Number	2506-00251
Autosampler 1	
Manufacturer	Agilent Technologies
Name	SPS4
Model Number	G8410A
Serial Number	AU2523214 15
Switching Valve Accessory 1	
Manufacturer	Agilent Technologies
Name	AVS 7
Model Number	G8495
Serial Number	MY2530MR06

Date: August 22, 2025 3:25:12 PM
System ID: MY2530CQ06
Page 2 / 5

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Details

Full Name of Signer: Panthep Kunasathem
Logged On User Name: panthep_kunasathem@agilent.com
Signature Creation Date: August 22, 2025
Reason for Signature: Executed protocol and published this original version of document

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Date: August 22, 2025 3:25:12 PM
System ID: MY2530CQ06
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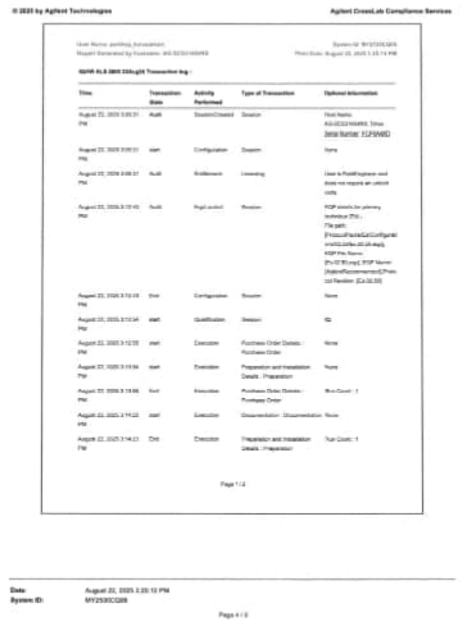

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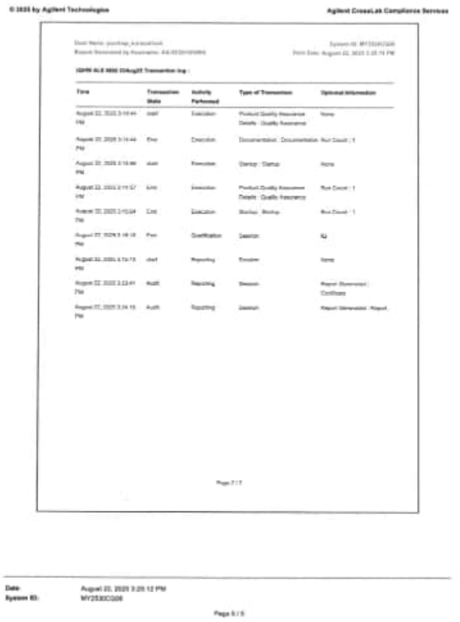

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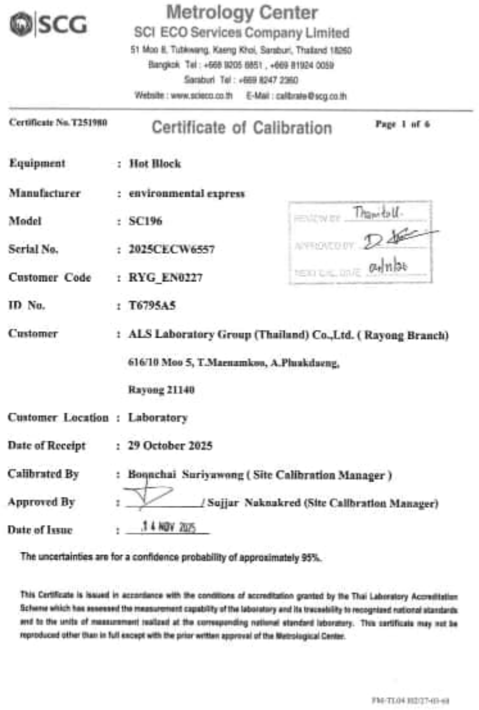


SCG

Metrology Center

SCI ECO Services Company Limited
51 Moo 8, Tubkwang, Kaeng Khoi, Saraburi, Thailand 18260
Bangkok Tel : +668 9205 8851 , +669 81924 0059
Saraburi Tel : +669 8247 2360
Website : www.scieco.co.th E-Mail : calibrate@scg.co.th

Certificate No. T251980 — Page 1 of 6

Certificate of Calibration

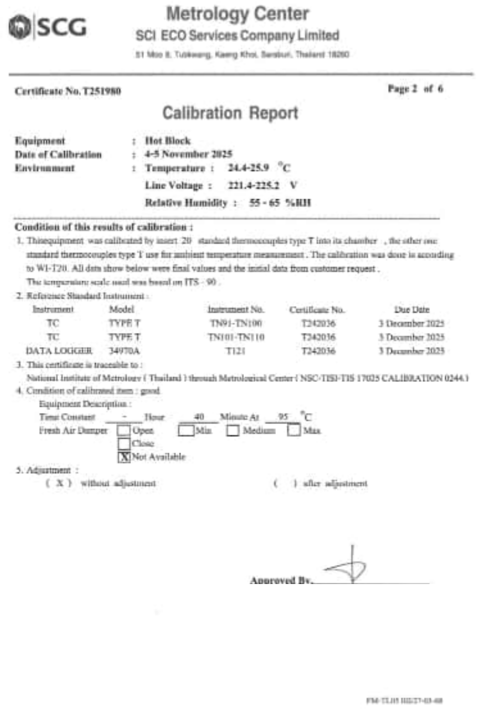
Equipment : **Hot Block**
Manufacturer : **environmental express**
Model : **SC196**
Serial No. : **2025CECW6557**
Customer Code : **RYG_EN0227**
ID No. : **T6795A5**
Customer : **ALS Laboratory Group (Thailand) Co.,Ltd. (Rayong Branch)**
616/10 Moo 5, T.Maenamkoo, A.Pluakdaeng,
Rayong 21140
Customer Location : **Laboratory**
Date of Receipt : **29 October 2025**
Calibrated By : **Boonchai Suriyawong (Site Calibration Manager)**
Approved By : ______ / **Sujjar Naknakred (Site Calibration Manager)**
Date of Issue : 14 NOV 2025

REVIEW BY Thanitcha
APPROVED BY
NEXT CAL. DATE 04/11/26

The uncertainties are for a confidence probability of approximately 95%.

This Certificate is issued in accordance with the conditions of accreditation granted by the Thai Laboratory Accreditation Scheme which has assessed the measurement capability of the laboratory and its traceability to recognized national standards and to the units of measurement realized at the corresponding national standard laboratory. This certificate may not be reproduced other than in full except with the prior written approval of the Metrological Center.

FM-TL04 R02/27-03-68



SCG

Metrology Center

SCI ECO Services Company Limited
51 Moo 8, Tubkwang, Kaeng Khoi, Saraburi, Thailand 18260

Certificate No. T251980 — **Page 2 of 6**

Calibration Report

Equipment : **Hot Block**
Date of Calibration : **4-5 November 2025**
Environment : **Temperature : 24.4-25.9 °C**
Line Voltage : 221.4-225.2 V
Relative Humidity : 55 - 65 %RH

Condition of this results of calibration :

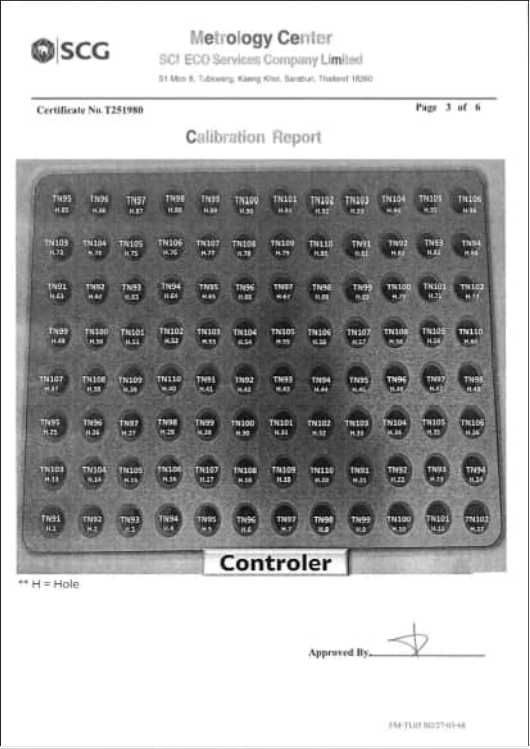
1. Thisequipment was calibrated by insert 20 standard thermocouples type T into its chamber , the other one standard thermocouples type T use for ambient temperature measurement . The calibration was done is according to WI-T20. All data show below were final values and the initial data from customer request .
   The temperature scale used was based on ITS - 90 .
2. Reference Standard Instrument :

Instrument	Model	Instrument No.	Certificate No.	Due Date
TC	TYPE T	TN91-TN100	T242036	3 December 2025
TC	TYPE T	TN101-TN110	T242036	3 December 2025
DATA LOGGER	34970A	T121	T242036	3 December 2025

3. This certificate is traceable to :
   National Institute of Metrology (Thailand) through Metrological Center (NSC-TISI-TIS 17025 CALIBRATION 0244)
4. Condition of calibrated item : good
   Equipment Description :
   Time Constant - Hour 40 Minute At 95 °C
   Fresh Air Damper ☐ Open ☐ Min ☐ Medium ☐ Max
   ☐ Close
   ☒ Not Available
5. Adjustment :
   (X) without adjustment ( ) after adjustment

Approved By

FM-TL05 R02/27-03-68



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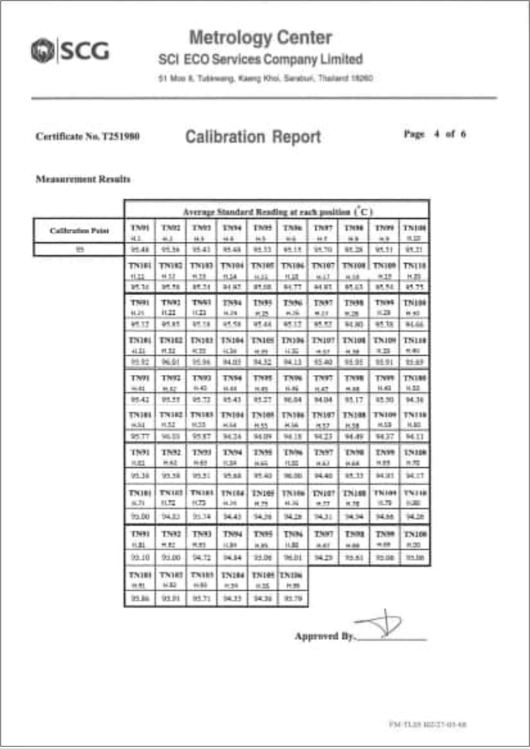
Certificate No. T251980

Page 3 of 6

Calibration Report

** H = Hole

Approved By.



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Certificate No. T251980

Calibration Report

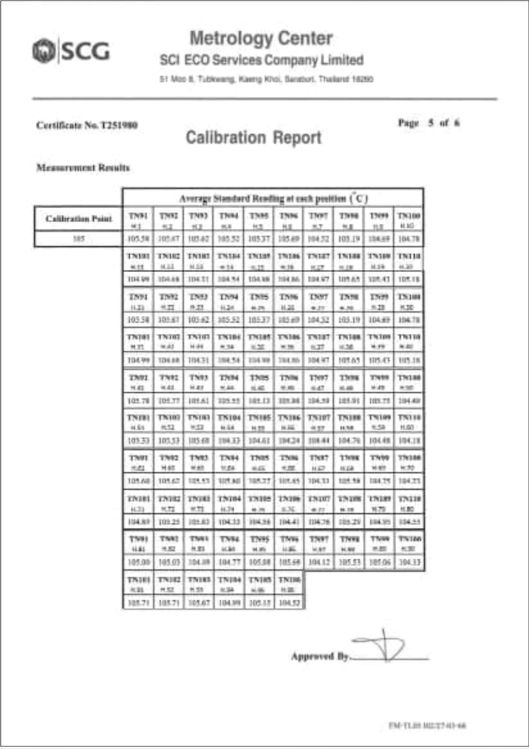
Page 4 of 6

Measurement Results

Calibration Point: 95

Average Standard Reading at each position (°C)

Approved By.



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51 Moo 8, Tubkwang, Kaeng Khoi, Saraburi, Thailand 18260

Certificate No. T251980

Calibration Report

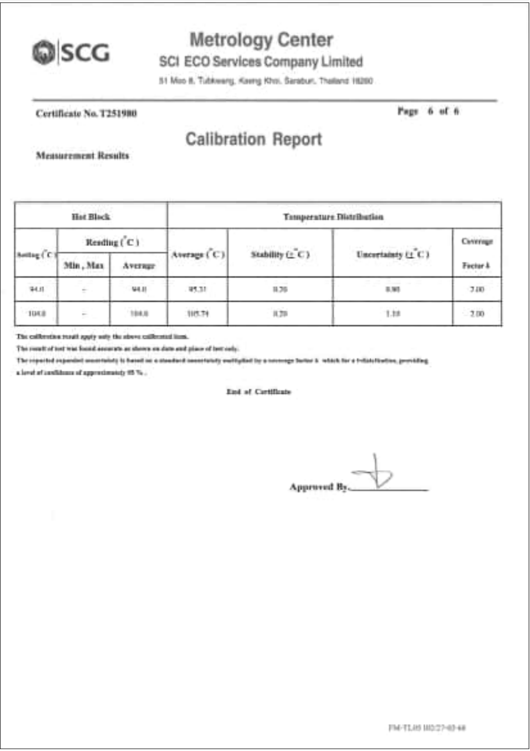
Page 5 of 6

Measurement Results

Calibration Point: 105

Average Standard Reading at each position (°C)

Approved By.



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51 Moo 8, Tubkwang, Kaeng Khoi, Saraburi, Thailand 18260

Certificate No. T251980

Page 6 of 6

Calibration Report

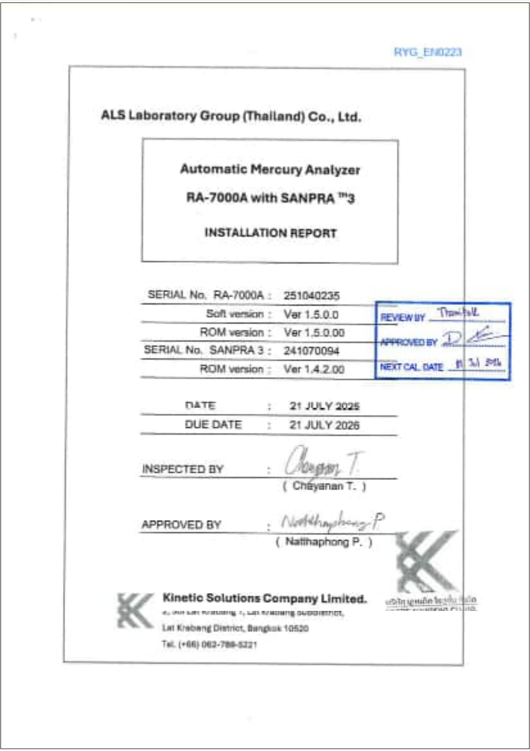
Measurement Results

Hot Block			Temperature Distribution			
Setting (°C)	Reading (°C)		Average (°C)	Stability (±°C)	Uncertainty (±°C)	Coverage Factor k
	Min , Max	Average				
94.0	-	94.0	95.31	0.20	0.90	2.00
104.0	-	104.0	105.74	0.20	1.10	2.00

The calibration result apply only the above calibrated item.
The result of test was found accurate as shown on date and place of test only.
The reported expanded uncertainty is based on a standard uncertainty multiplied by a coverage factor k which for a t-distribution, providing a level of confidence of approximately 95 %.

End of Certificate

Approved By.



RYG_EN0223

ALS Laboratory Group (Thailand) Co., Ltd.

Automatic Mercury Analyzer
RA-7000A with SANPRA ™3
INSTALLATION REPORT

SERIAL No. RA-7000A : 251040235
Soft version : Ver 1.5.0.0
ROM version : Ver 1.5.0.00
SERIAL No. SANPRA 3 : 241070094
ROM version : Ver 1.4.2.00

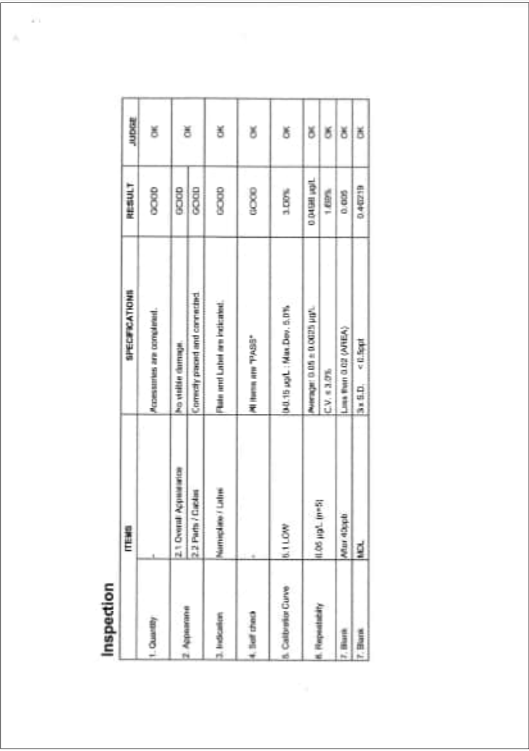
REVIEW BY [illegible]
APPROVED BY
NEXT CAL. DATE [illegible]

DATE : 21 JULY 2025
DUE DATE : 21 JULY 2026

INSPECTED BY : Chayanan T.
(Chayanan T.)

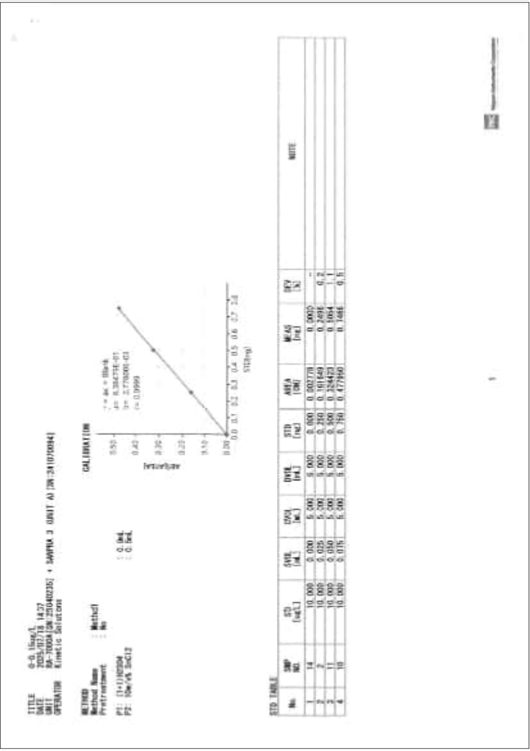
APPROVED BY : Natthaphong P.
(Natthaphong P.)

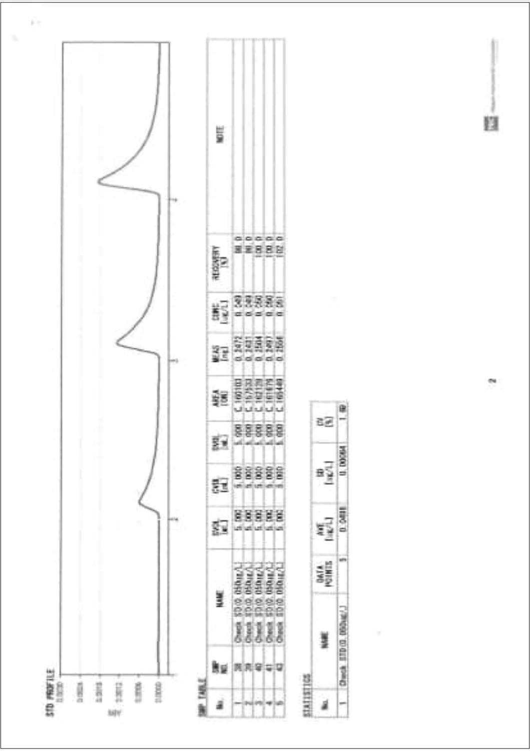
Kinetic Solutions Company Limited.
[illegible] Lat Krabang 1, Lat Krabang Subdistrict,
Lat Krabang District, Bangkok 10520
Tel. (+66) 062-789-5221

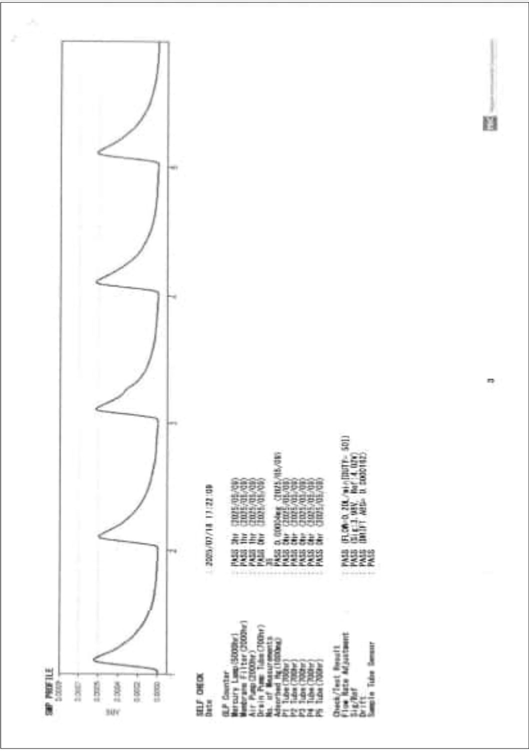


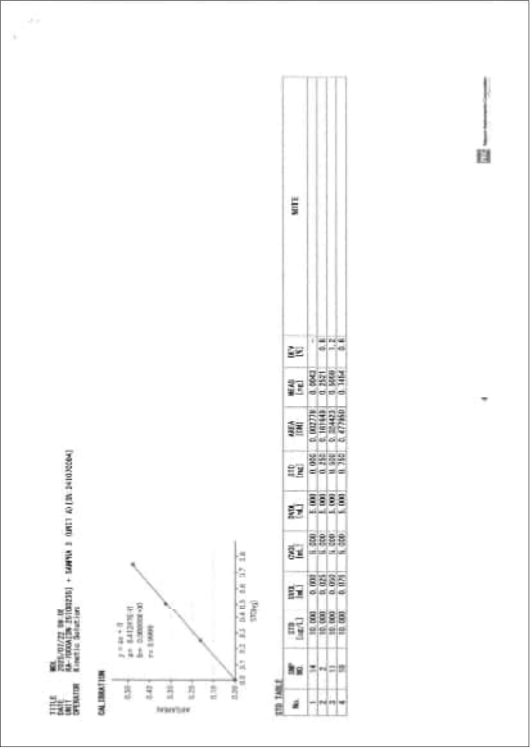
Inspection

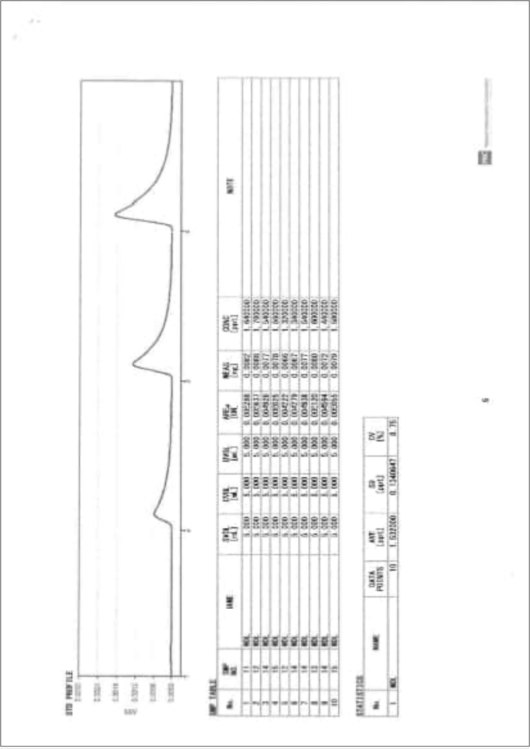
ITEMS		SPECIFICATIONS	RESULT	JUDGE
1. Quantity	-	Accessories are completed.	GOOD	OK
2. Appearance	2.1 Overall Appearance	No visible damage.	GOOD	OK
	2.2 Parts / Cables	Correctly placed and connected.	GOOD	
3. Indication	Nameplate / Label	Plate and Label are indicated.	GOOD	OK
4. Self check	-	All items are "PASS"	GOOD	OK
5. Calibration Curve	5.1 LOW	0-0.15 µg/L : Max.Dev. 5.0%	3.00%	OK
6. Repeatability	0.05 µg/L (n=5)	Average: 0.05 ± 0.0025 µg/L	0.0498 µg/L	OK
		C.V. ≤ 3.0%	1.69%	OK
7. Blank	After 40ppb	Less than 0.02 (AREA)	0.005	OK
7. Blank	MDL	3x S.D. < 0.5ppt	0.40219	OK

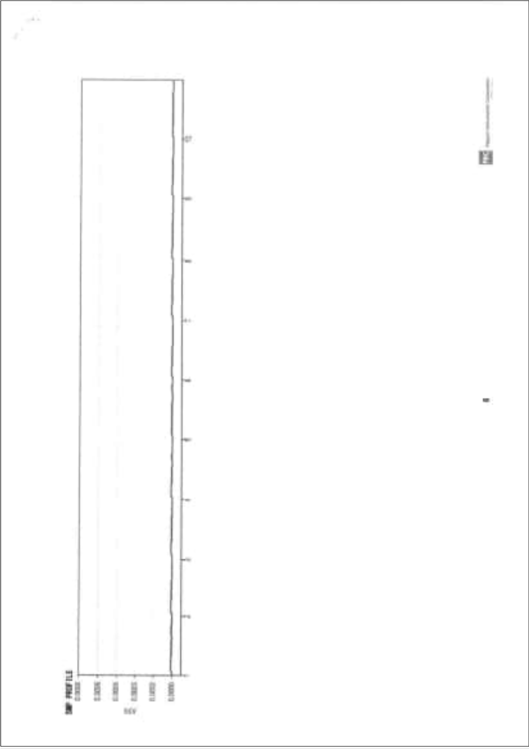


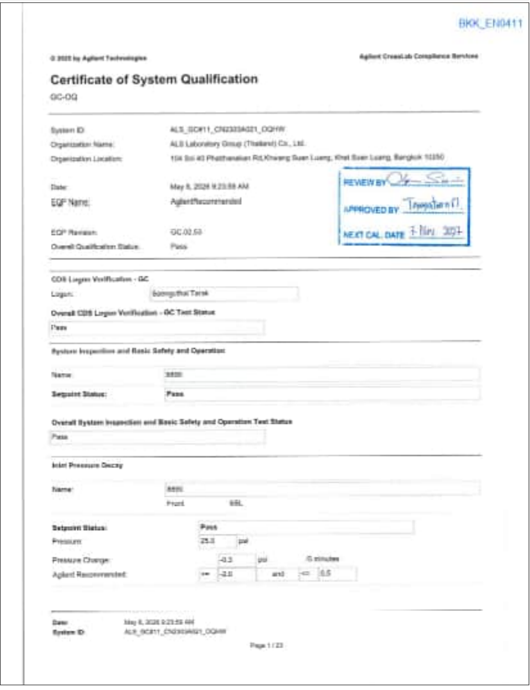












BKK_EN0411

Certificate of System Qualification

GC-OQ

System ID:	ALS_GC#11_CN23334021_OQHW
Organization Name:	ALS Laboratory Group (Thailand) Co., Ltd.
Organization Location:	104 Soi 40 Phatthanakan Rd,Khwang Suan Luang, Khet Suan Luang, Bangkok 10250
Date:	May 8, 2026 9:23:58 AM
EQP Name:	AgilentRecommended
EQP Revision:	GC.02.50
Overall Qualification Status:	Pass

REVIEW BY
APPROVED BY Tongsiharn P.
NEXT CAL. DATE 7 Nov 2027

CDS Logon Verification - GC

Logon: Boongthai Tarak

Overall CDS Logon Verification - GC Test Status

Pass

System Inspection and Basic Safety and Operation

Name: 8890

Setpoint Status: Pass

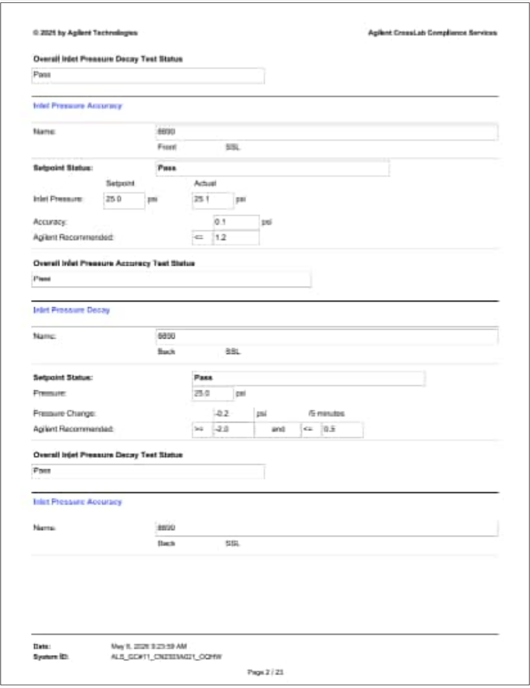
Overall System Inspection and Basic Safety and Operation Test Status

Pass

Inlet Pressure Decay

Name: 8890
Front SSL

Setpoint Status: Pass
Pressure: 25.0 psi
Pressure Change: -0.3 psi /5 minutes
Agilent Recommended: >= -2.0 and <= 0.5



Overall Inlet Pressure Decay Test Status

Pass

Inlet Pressure Accuracy

Name: 8890
Front SSL

Setpoint Status: Pass
Setpoint Actual
Inlet Pressure: 25.0 psi 25.1 psi
Accuracy: 0.1 psi
Agilent Recommended: <= 1.2

Overall Inlet Pressure Accuracy Test Status

Pass

Inlet Pressure Decay

Name: 8890
Back SSL

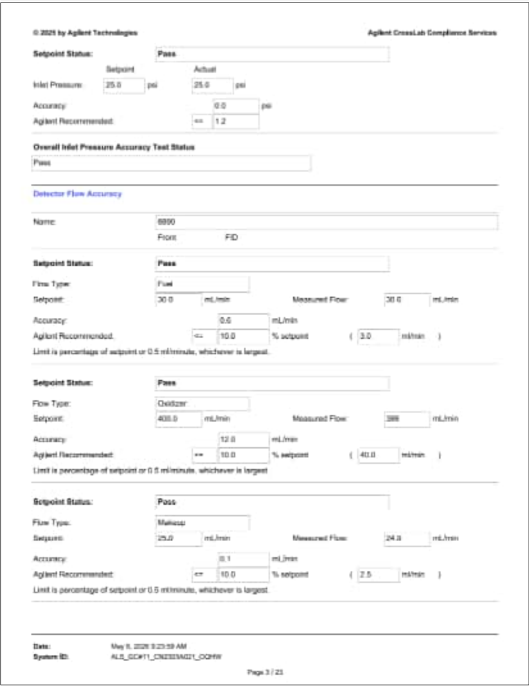
Setpoint Status: Pass
Pressure: 25.0 psi
Pressure Change: -0.2 psi /5 minutes
Agilent Recommended: >= -2.0 and <= 0.5

Overall Inlet Pressure Decay Test Status

Pass

Inlet Pressure Accuracy

Name: 8890
Back SSL



Setpoint Status: Pass
Setpoint Actual
Inlet Pressure: 25.0 psi 25.0 psi
Accuracy: 0.0 psi
Agilent Recommended: <= 1.2

Overall Inlet Pressure Accuracy Test Status

Pass

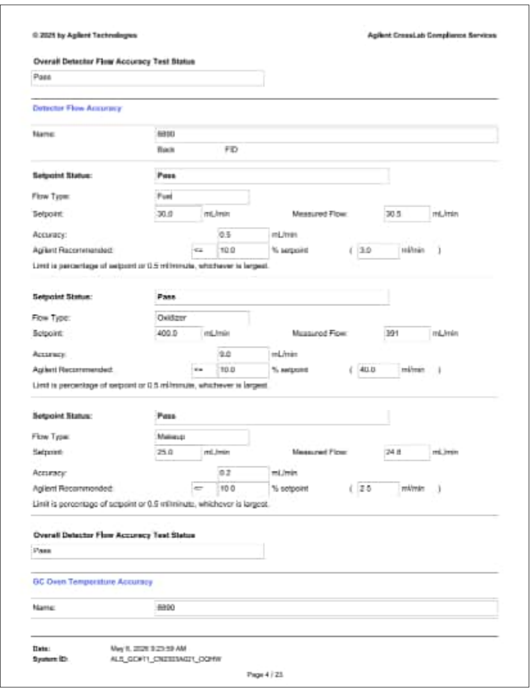
Detector Flow Accuracy

Name: 8890
Front FID

Setpoint Status: Pass
Flow Type: Fuel
Setpoint: 30.0 mL/min Measured Flow: 30.6 mL/min
Accuracy: 0.6 mL/min
Agilent Recommended: <= 10.0 % setpoint (3.0 ml/min)
Limit is percentage of setpoint or 0.5 ml/minute, whichever is largest.

Setpoint Status: Pass
Flow Type: Oxidizer
Setpoint: 400.0 mL/min Measured Flow: 388 mL/min
Accuracy: 12.0 mL/min
Agilent Recommended: <= 10.0 % setpoint (40.0 ml/min)
Limit is percentage of setpoint or 0.5 ml/minute, whichever is largest.

Setpoint Status: Pass
Flow Type: Makeup
Setpoint: 25.0 mL/min Measured Flow: 24.9 mL/min
Accuracy: 0.1 mL/min
Agilent Recommended: <= 10.0 % setpoint (2.5 ml/min)
Limit is percentage of setpoint or 0.5 ml/minute, whichever is largest.



Overall Detector Flow Accuracy Test Status

Pass

Detector Flow Accuracy

Name: 8890
Back FID

Setpoint Status: Pass
Flow Type: Fuel
Setpoint: 30.0 mL/min Measured Flow: 30.5 mL/min
Accuracy: 0.5 mL/min
Agilent Recommended: <= 10.0 % setpoint (3.0 ml/min)
Limit is percentage of setpoint or 0.5 ml/minute, whichever is largest.

Setpoint Status: Pass
Flow Type: Oxidizer
Setpoint: 400.0 mL/min Measured Flow: 391 mL/min
Accuracy: 9.0 mL/min
Agilent Recommended: <= 10.0 % setpoint (40.0 ml/min)
Limit is percentage of setpoint or 0.5 ml/minute, whichever is largest.

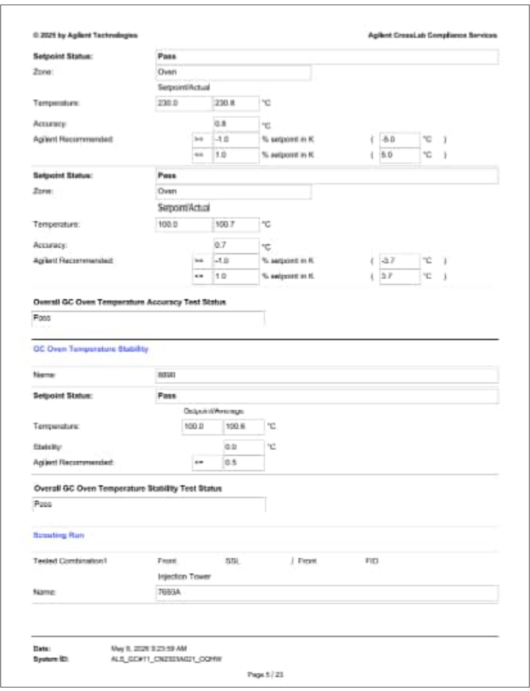
Setpoint Status: Pass
Flow Type: Makeup
Setpoint: 25.0 mL/min Measured Flow: 24.8 mL/min
Accuracy: 0.2 mL/min
Agilent Recommended: <= 10.0 % setpoint (2.5 ml/min)
Limit is percentage of setpoint or 0.5 ml/minute, whichever is largest.

Overall Detector Flow Accuracy Test Status

Pass

GC Oven Temperature Accuracy

Name: 8890



Setpoint Status: Pass
Zone: Oven
Setpoint/Actual
Temperature: 230.0 230.8 °C
Accuracy: 0.8 °C
Agilent Recommended: >= -1.0 % setpoint in K (-5.0 °C)
<= 1.0 % setpoint in K (5.0 °C)

Setpoint Status: Pass
Zone: Oven
Setpoint/Actual
Temperature: 100.0 100.7 °C
Accuracy: 0.7 °C
Agilent Recommended: >= -1.0 % setpoint in K (-3.7 °C)
<= 1.0 % setpoint in K (3.7 °C)

Overall GC Oven Temperature Accuracy Test Status

Pass

GC Oven Temperature Stability

Name: 8890

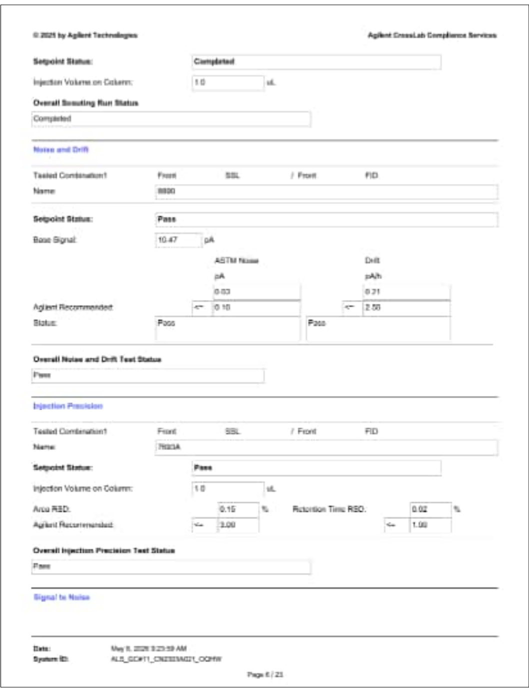
Setpoint Status: Pass
Setpoint/Average
Temperature: 100.0 100.6 °C
Stability: 0.0 °C
Agilent Recommended: <= 0.5

Overall GC Oven Temperature Stability Test Status

Pass

Scouting Run

Tested Combination1 Front SSL / Front FID
Injection Tower
Name: 7693A



Setpoint Status: Completed
Injection Volume on Column: 1.0 uL

Overall Scouting Run Status

Completed

Noise and Drift

Tested Combination1 Front SSL / Front FID
Name: 8890

Setpoint Status: Pass
Base Signal: 10.47 pA

	ASTM Noise	Drift
	pA	pA/h
	0.03	0.21
Agilent Recommended:	<= 0.10	<= 2.50
Status:	Pass	Pass

Overall Noise and Drift Test Status

Pass

Injection Precision

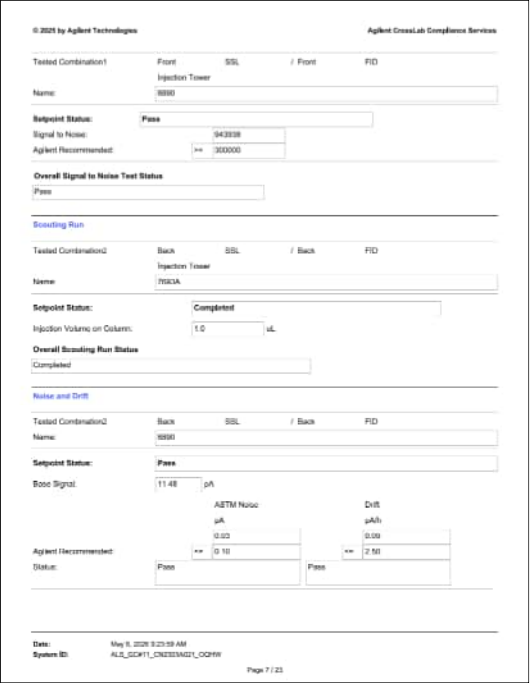
Tested Combination1 Front SSL / Front FID
Name: 7693A

Setpoint Status: Pass
Injection Volume on Column: 1.0 uL
Area RSD: 0.15 % Retention Time RSD: 0.02 %
Agilent Recommended: <= 3.00 <= 1.00

Overall Injection Precision Test Status

Pass

Signal to Noise



Tested Combination1	Front Injection Tower	SSL	/ Front	FID
Name:	8890			

Setpoint Status: **Pass**

Signal to Noise:		943938
Agilent Recommended:	>=	300000

Overall Signal to Noise Test Status

Pass

Scouting Run

Tested Combination2	Back Injection Tower	SSL	/ Back	FID
Name:	7693A			

Setpoint Status: **Completed**

Injection Volume on Column: 1.0 uL

Overall Scouting Run Status

Completed

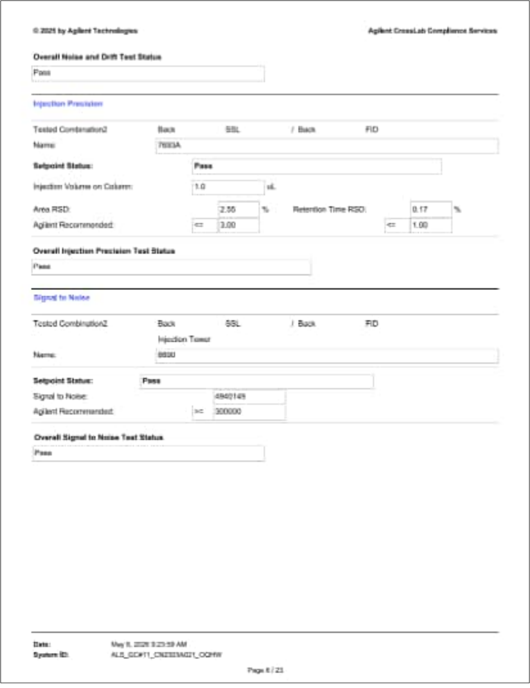
Noise and Drift

Tested Combination2	Back	SSL	/ Back	FID
Name:	8890			

Setpoint Status: **Pass**

Base Signal: 11.48 pA

		ASTM Noise pA		Drift pA/h
		0.03		0.09
Agilent Recommended:	<=	0.10	<=	2.50
Status:		Pass		Pass



Overall Noise and Drift Test Status

Pass

Injection Precision

Tested Combination2	Back	SSL	/ Back	FID
Name:	7693A			

Setpoint Status: **Pass**

Injection Volume on Column: 1.0 uL

Area RSD:		2.55 %	Retention Time RSD:		0.17 %
Agilent Recommended:	<=	3.00		<=	1.00

Overall Injection Precision Test Status

Pass

Signal to Noise

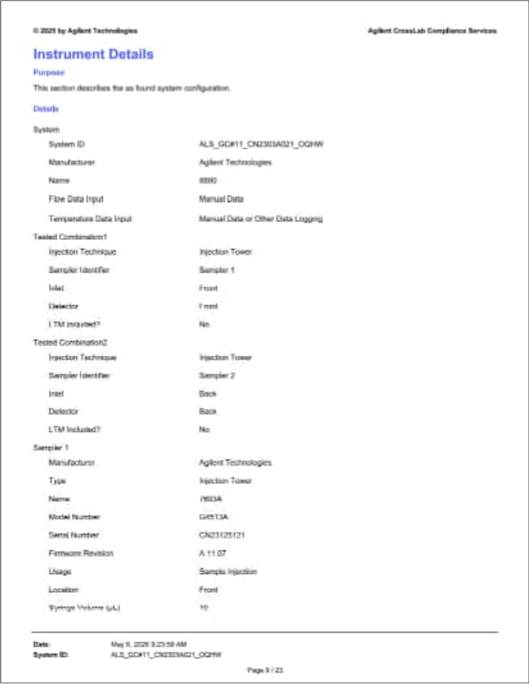
Tested Combination2	Back Injection Tower	SSL	/ Back	FID
Name:	8890			

Setpoint Status: **Pass**

Signal to Noise:		4940149
Agilent Recommended:	>=	300000

Overall Signal to Noise Test Status

Pass



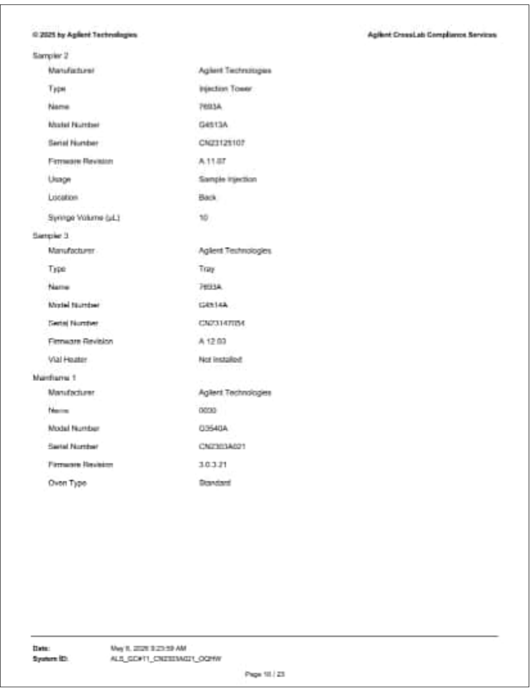
Instrument Details

Purpose

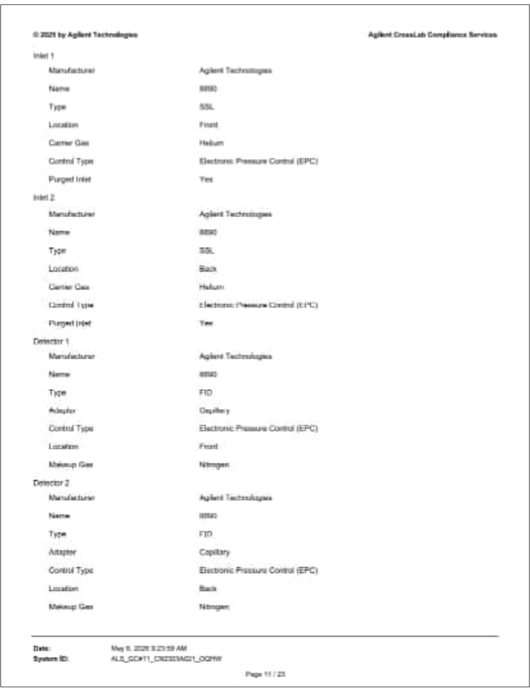
This section describes the as found system configuration.

Details

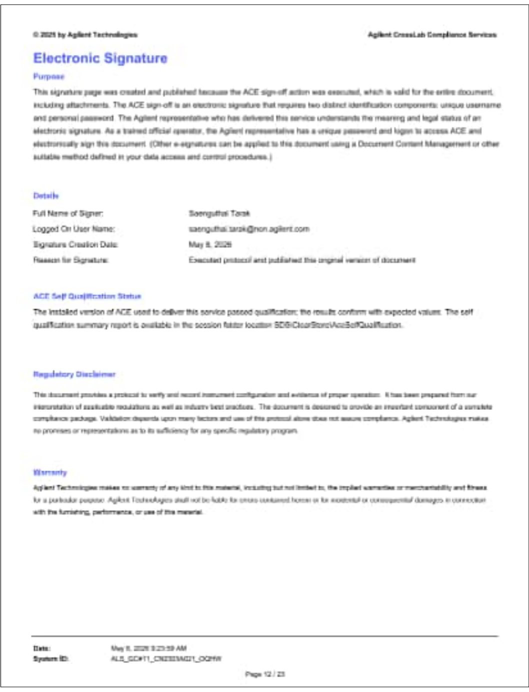
System	
System ID	ALS_GC#11_CN2303A021_OQHW
Manufacturer	Agilent Technologies
Name	8890
Flow Data Input	Manual Data
Temperature Data Input	Manual Data or Other Data Logging
Tested Combination1	
Injection Technique	Injection Tower
Sampler Identifier	Sampler 1
Inlet	Front
Detector	Front
LTM Included?	No
Tested Combination2	
Injection Technique	Injection Tower
Sampler Identifier	Sampler 2
Inlet	Back
Detector	Back
LTM Included?	No
Sampler 1	
Manufacturer	Agilent Technologies
Type	Injection Tower
Name	7693A
Model Number	G4513A
Serial Number	CN23125121
Firmware Revision	A.11.07
Usage	Sample Injection
Location	Front
Syringe Volume (µL)	10



Sampler 2	
Manufacturer	Agilent Technologies
Type	Injection Tower
Name	7693A
Model Number	G4513A
Serial Number	CN23125107
Firmware Revision	A.11.07
Usage	Sample Injection
Location	Back
Syringe Volume (µL)	10
Sampler 3	
Manufacturer	Agilent Technologies
Type	Tray
Name	7693A
Model Number	G4514A
Serial Number	CN23147054
Firmware Revision	A.12.03
Vial Heater	Not Installed
Mainframe 1	
Manufacturer	Agilent Technologies
Name	8890
Model Number	G3540A
Serial Number	CN2303A021
Firmware Revision	3.0.3.21
Oven Type	Standard



Inlet 1	
Manufacturer	Agilent Technologies
Name	8890
Type	SSL
Location	Front
Carrier Gas	Helium
Control Type	Electronic Pressure Control (EPC)
Purged Inlet	Yes
Inlet 2	
Manufacturer	Agilent Technologies
Name	8890
Type	SSL
Location	Back
Carrier Gas	Helium
Control Type	Electronic Pressure Control (EPC)
Purged Inlet	Yes
Detector 1	
Manufacturer	Agilent Technologies
Name	8890
Type	FID
Adapter	Capillary
Control Type	Electronic Pressure Control (EPC)
Location	Front
Makeup Gas	Nitrogen
Detector 2	
Manufacturer	Agilent Technologies
Name	8890
Type	FID
Adapter	Capillary
Control Type	Electronic Pressure Control (EPC)
Location	Back
Makeup Gas	Nitrogen



Electronic Signature

Purpose

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Details

Full Name of Signer:	Saenguthai Tarak
Logged On User Name:	saenguthai.tarak@non.agilent.com
Signature Creation Date:	May 8, 2026
Reason for Signature:	Executed protocol and published this original version of document

ACE Self Qualification Status

The installed version of ACE used to deliver this service passed qualification; the results conform with expected values. The self qualification summary report is available in the session folder location SDS\ClearStore\AceSelfQualification.

Regulatory Disclaimer

This document provides a protocol to verify and record instrument configuration and evidence of proper operation. It has been prepared from our interpretation of applicable regulations as well as industry best practices. The document is designed to provide an important component of a complete compliance package. Validation depends upon many factors and use of this protocol alone does not assure compliance. Agilent Technologies makes no promises or representations as to its sufficiency for any specific regulatory program.

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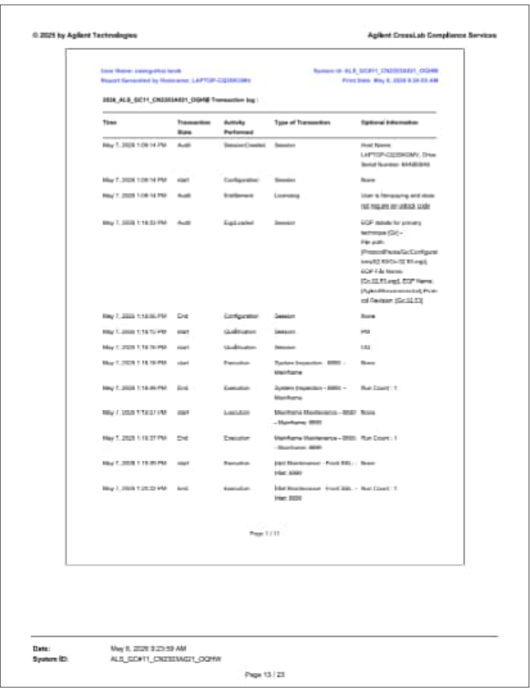
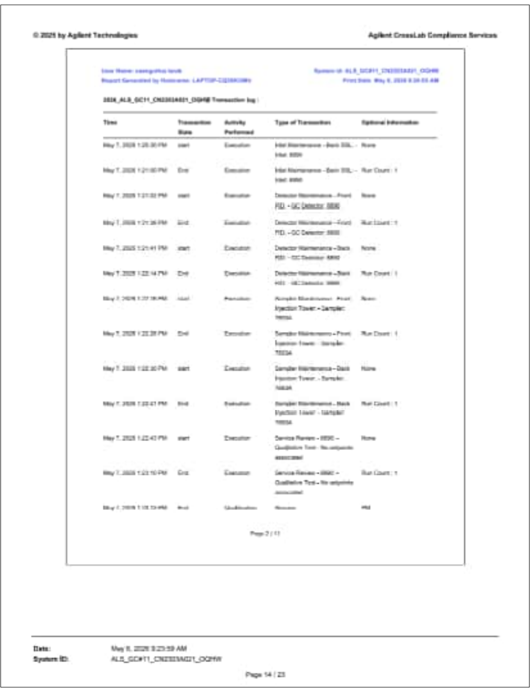
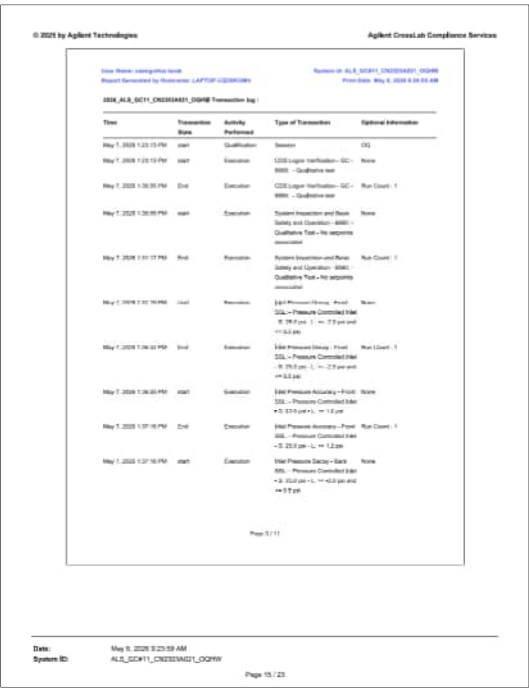
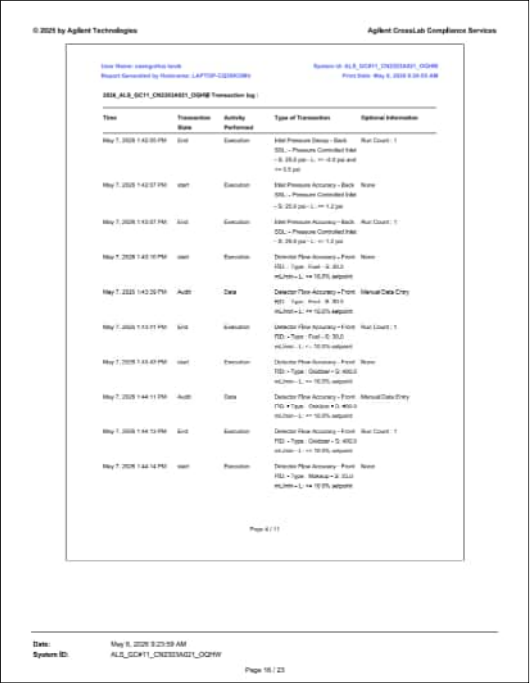
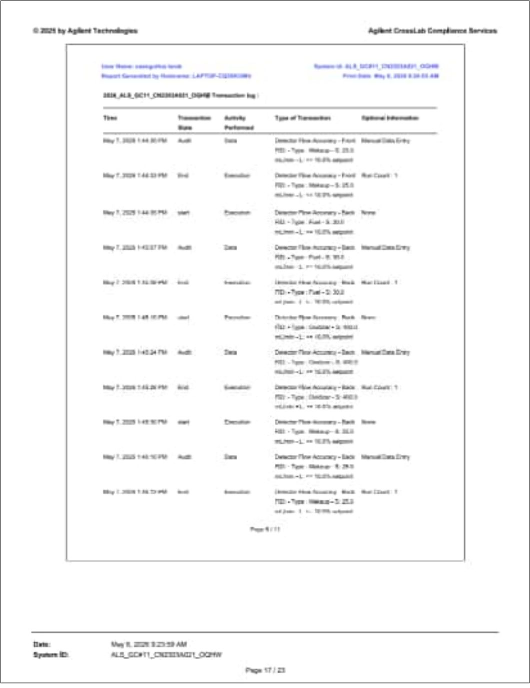
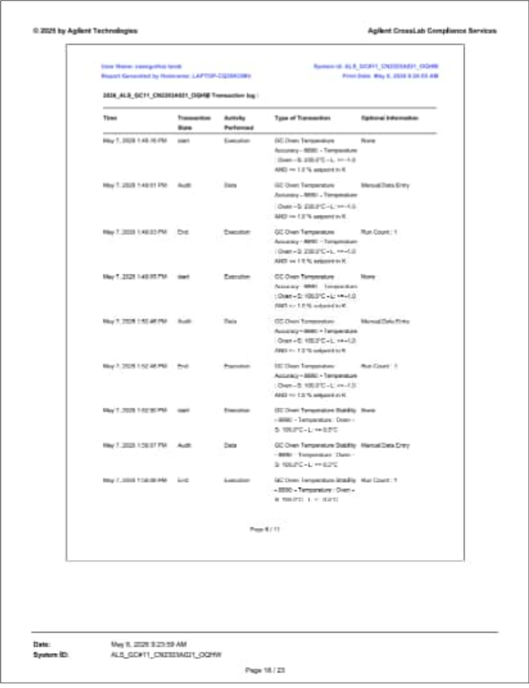
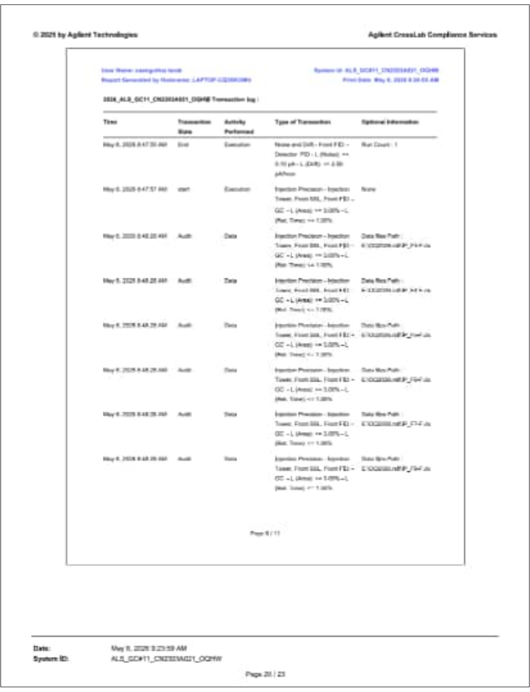
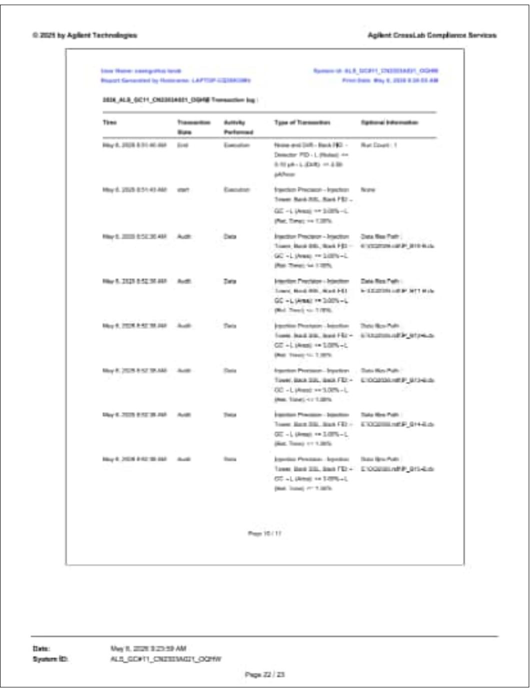


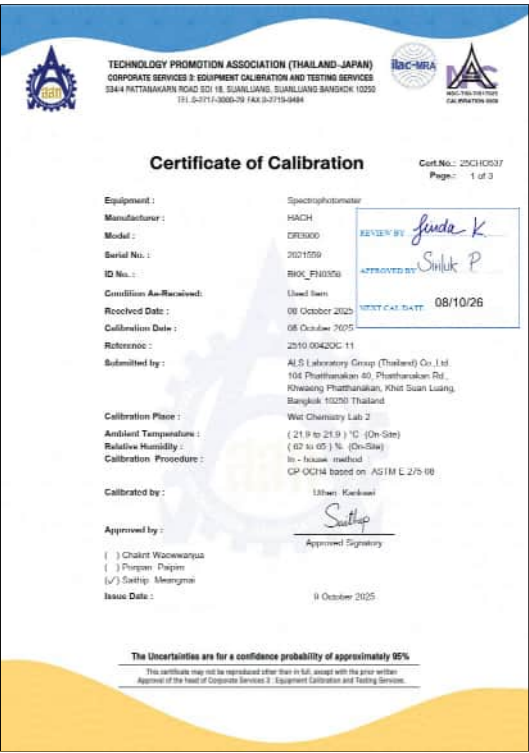










TECHNOLOGY PROMOTION ASSOCIATION (THAILAND-JAPAN)
CORPORATE SERVICES 3: EQUIPMENT CALIBRATION AND TESTING SERVICES
534/4 PATTANAKARN ROAD SOI 18, SUANLUANG, SUANLUANG BANGKOK 10250
TEL 0-2717-3000-79 FAX 0-2719-9484

Certificate of Calibration

Cert.No.: 25CHO537
Page : 1 of 3

Equipment :	Spectrophotometer
Manufacturer :	HACH
Model :	DR3900
Serial No. :	2021559
ID No. :	BKK_FN0358
Condition As-Received:	Used Item
Received Date :	08 October 2025
Calibration Date :	08 October 2025
Reference :	2510 0042OC 11
Submitted by :	ALS Laboratory Group (Thailand) Co.,Ltd. 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand
Calibration Place :	Wet Chemistry Lab 2
Ambient Temperature :	(21.9 to 21.9) °C (On-Site)
Relative Humidity :	(62 to 65) % (On-Site)
Calibration Procedure :	In - house method CP OCH4 based on ASTM E 275-08
Calibrated by :	Uthen Kankaei
Approved by :	Saithip Approved Signatory

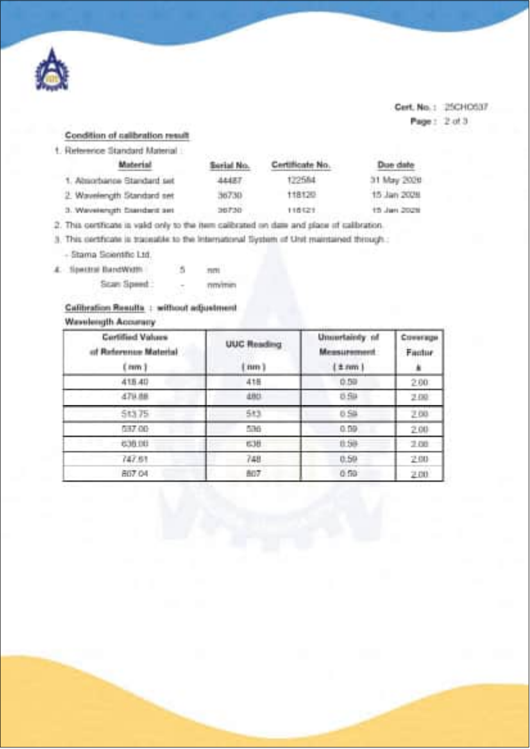
REVIEW BY Jinda K.
APPROVED BY Sinluk P
NEXT CAL DATE 08/10/26

( ) Chakrit Waowwanyua
( ) Pornpan Paipim
(✓) Saithip Meangmai

Issue Date : 9 October 2025

The Uncertainties are for a confidence probability of approximately 95%

This certificate may not be reproduced other than in full, except with the prior written Approval of the head of Corporate Services 3 : Equipment Calibration and Testing Services.



Cert. No. : 25CHO537
Page : 2 of 3

Condition of calibration result

1. Reference Standard Material :

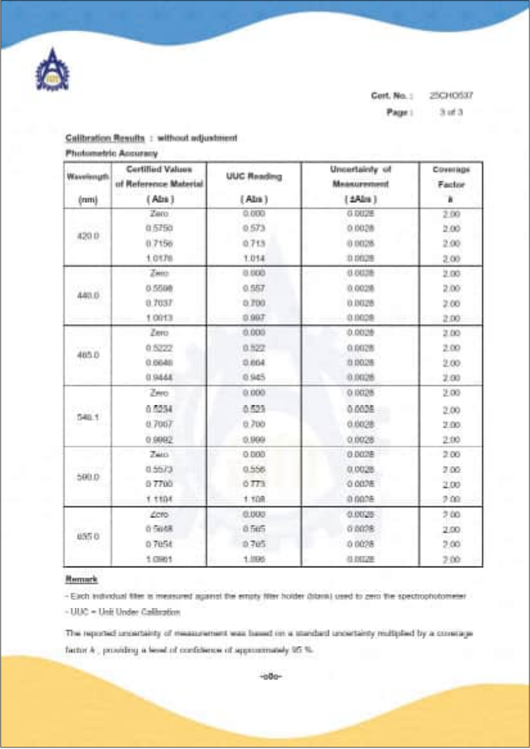
Material	Serial No.	Certificate No.	Due date
1. Absorbance Standard set	44487	122584	31 May 2026
2. Wavelength Standard set	36730	118120	15 Jan 2026
3. Wavelength Standard set	36730	118121	15 Jan 2026

2. This certificate is valid only to the item calibrated on date and place of calibration.
3. This certificate is traceable to the International System of Unit maintained through :
   - Stama Scientific Ltd.
4. Spectral BandWidth : 5 nm
   Scan Speed : - nm/min

Calibration Results : without adjustment

Wavelength Accuracy

Certified Values of Reference Material (nm)	UUC Reading (nm)	Uncertainty of Measurement (± nm)	Coverage Factor k
418.40	418	0.59	2.00
479.88	480	0.59	2.00
513.75	513	0.59	2.00
537.00	536	0.59	2.00
638.00	638	0.59	2.00
747.61	748	0.59	2.00
807.04	807	0.59	2.00



Cert. No. : 25CHO537
Page : 3 of 3

Calibration Results : without adjustment

Photometric Accuracy

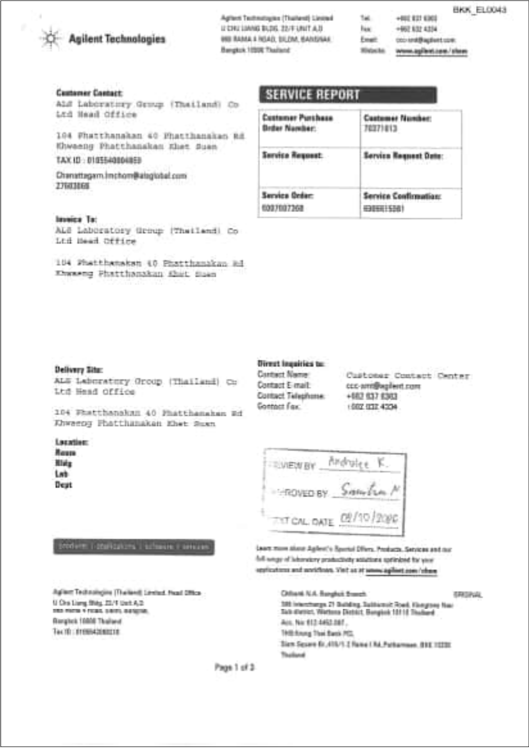
Wavelength (nm)	Certified Values of Reference Material (Abs)	UUC Reading (Abs)	Uncertainty of Measurement (±Abs)	Coverage Factor k
420.0	Zero	0.000	0.0028	2.00
	0.5750	0.573	0.0028	2.00
	0.7156	0.713	0.0028	2.00
	1.0176	1.014	0.0028	2.00
440.0	Zero	0.000	0.0028	2.00
	0.5598	0.557	0.0028	2.00
	0.7037	0.700	0.0028	2.00
	1.0013	0.997	0.0028	2.00
465.0	Zero	0.000	0.0028	2.00
	0.5222	0.522	0.0028	2.00
	0.6646	0.664	0.0028	2.00
	0.9444	0.945	0.0028	2.00
546.1	Zero	0.000	0.0028	2.00
	0.5254	0.525	0.0028	2.00
	0.7007	0.700	0.0028	2.00
	0.9992	0.999	0.0028	2.00
590.0	Zero	0.000	0.0028	2.00
	0.5573	0.556	0.0028	2.00
	0.7700	0.773	0.0028	2.00
	1.1104	1.108	0.0028	2.00
635.0	Zero	0.000	0.0028	2.00
	0.5648	0.565	0.0028	2.00
	0.7654	0.765	0.0028	2.00
	1.0961	1.096	0.0028	2.00

Remark

- Each individual filter is measured against the empty filter holder (blank) used to zero the spectrophotometer.
- UUC = Unit Under Calibration

The reported uncertainty of measurement was based on a standard uncertainty multiplied by a coverage factor k , providing a level of confidence of approximately 95 %.

-o0o-



BKK_EL0043

Agilent Technologies

Agilent Technologies (Thailand) Limited
U CHU LIANG BLDG. 22/F UNIT A,B
968 RAMA 4 ROAD, SILOM, BANGRAK
Bangkok 10500 Thailand

Tel. +662 837 6363
Fax +662 632 4334
Email ccc-smt@agilent.com
Website www.agilent.com/chem

Customer Contact:
ALS Laboratory Group (Thailand) Co Ltd Head Office

104 Phatthanakan 40 Phatthanakan Rd Khwaeng Phatthanakan Khet Suan
TAX ID : 0105540004859
Chanattagarn.Inchom@alsglobal.com
27603868

SERVICE REPORT

Customer Purchase Order Number:	**Customer Number:** 70371813
Service Request:	**Service Request Date:**
Service Order: 6007007268	**Service Confirmation:** 6986615881

Invoice To:
ALS Laboratory Group (Thailand) Co Ltd Head Office

104 Phatthanakan 40 Phatthanakan Rd Khwaeng Phatthanakan Khet Suan

Delivery Site:
ALS Laboratory Group (Thailand) Co Ltd Head Office

104 Phatthanakan 40 Phatthanakan Rd Khwaeng Phatthanakan Khet Suan

Location:
Room
Bldg
Lab
Dept

Direct Inquiries to:
Contact Name: Customer Contact Center
Contact E-mail: ccc-smt@agilent.com
Contact Telephone: +662 837 6363
Contact Fax: +662 632 4334

REVIEW BY Anchalee K.
APPROVED BY Samlan N
NEXT CAL. DATE 03/10/2026

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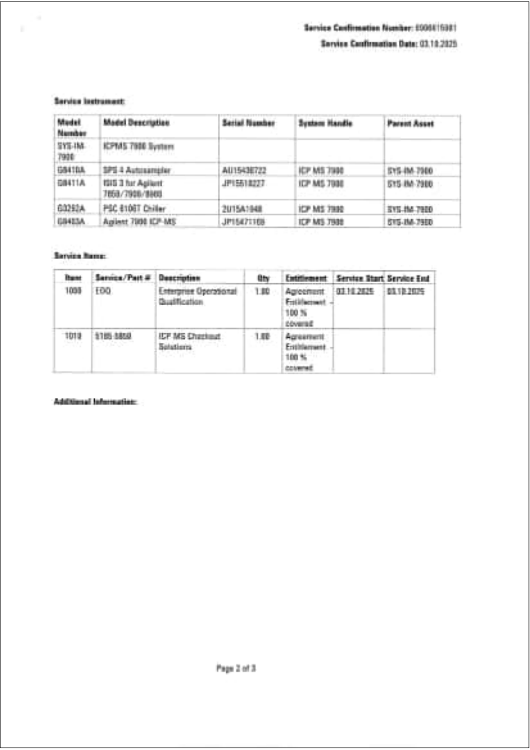
Bangkok 10500 Thailand
Tax ID : 0105543068218

Citibank N.A. Bangkok Branch
399 Interchange 21 Building, Sukhumvit Road, Klongtoey Nua Sub-district, Wattana District, Bangkok 10110 Thailand
Acc. No. 612 4462 087.,
TMB Krung Thai Bank PCL
Siam Square Br.,415/1-2 Rama I Rd.,Pathumwan, BKK 10330 Thailand

ORIGINAL

Page 1 of 3



Service Confirmation Number: 6986615881
Service Confirmation Date: 03.10.2025

Service Instrument:

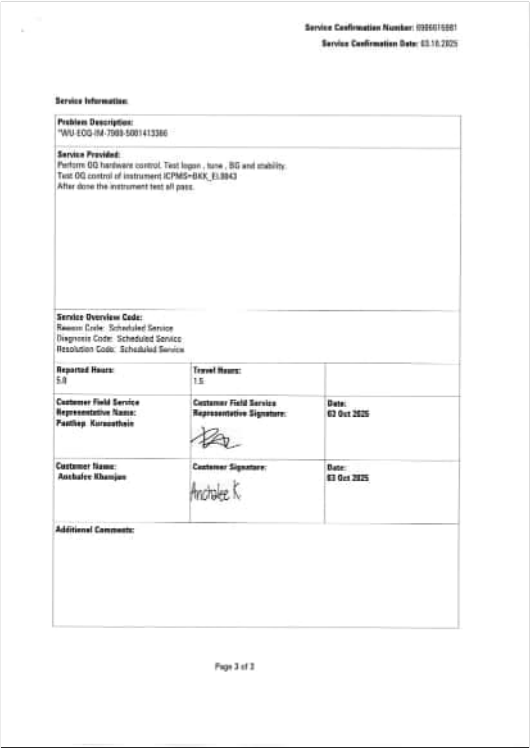
Model Number	Model Description	Serial Number	System Handle	Parent Asset
SYS-IM-7900	ICPMS 7900 System			
G8410A	SPS 4 Autosampler	AU15436722	ICP MS 7900	SYS-IM-7900
G8411A	ISIS 3 for Agilent 7850/7900/8900	JP15518227	ICP MS 7900	SYS-IM-7900
G3292A	PSC 6106T Chiller	2U15A1948	ICP MS 7900	SYS-IM-7900
G8403A	Agilent 7900 ICP-MS	JP15471108	ICP MS 7900	SYS-IM-7900

Service Items:

Item	Service/Part #	Description	Qty	Entitlement	Service Start	Service End
1000	EOQ	Enterprise Operational Qualification	1.00	Agreement Entitlement - 100 % covered	03.10.2025	03.10.2025
1010	5185-5858	ICP MS Checkout Solutions	1.00	Agreement Entitlement - 100 % covered		

Additional Information:

Page 2 of 3



Service Confirmation Number: 6986615881
Service Confirmation Date: 03.10.2025

Service Information:

Problem Description:
"WU-EOQ-IM-7900-5001413386

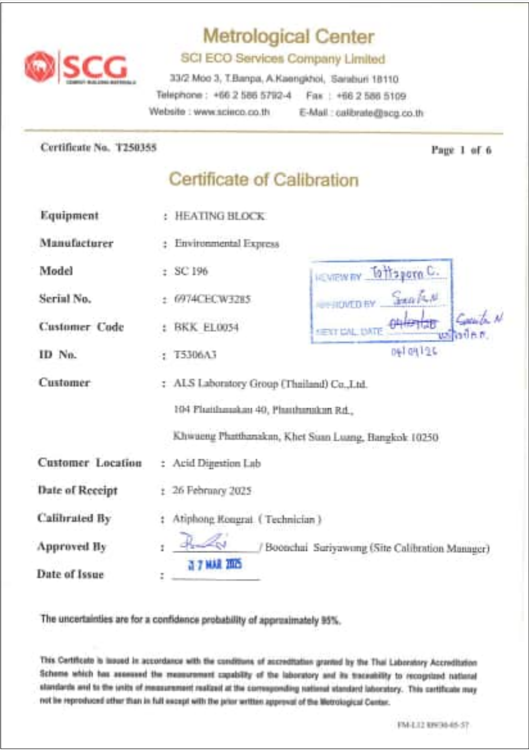
Service Provided:
Perform OQ hardware control. Test logon , tune , BG and stability.
Test OQ control of instrument ICPMS=BKK_EL0043
After done the instrument test all pass.

Service Overview Code:
Reason Code: Scheduled Service
Diagnosis Code: Scheduled Service
Resolution Code: Scheduled Service

Reported Hours: 5.0	**Travel Hours:** 1.5	
Customer Field Service Representative Name: **Panthep Kurasathain**	**Customer Field Service Representative Signature:**	**Date:** **03 Oct 2025**
Customer Name: **Anchalee Khamjan**	**Customer Signature:** Anchalee K.	**Date:** **03 Oct 2025**

Additional Comments:

Page 3 of 3



Metrological Center
SCI ECO Services Company Limited
33/2 Moo 3, T.Banpa, A.Kaengkhoi, Saraburi 18110
Telephone : +66 2 586 5792-4 Fax : +66 2 586 5109
Website : www.scieco.co.th E-Mail : calibrate@scg.co.th

Certificate No. T250355 Page 1 of 6

Certificate of Calibration

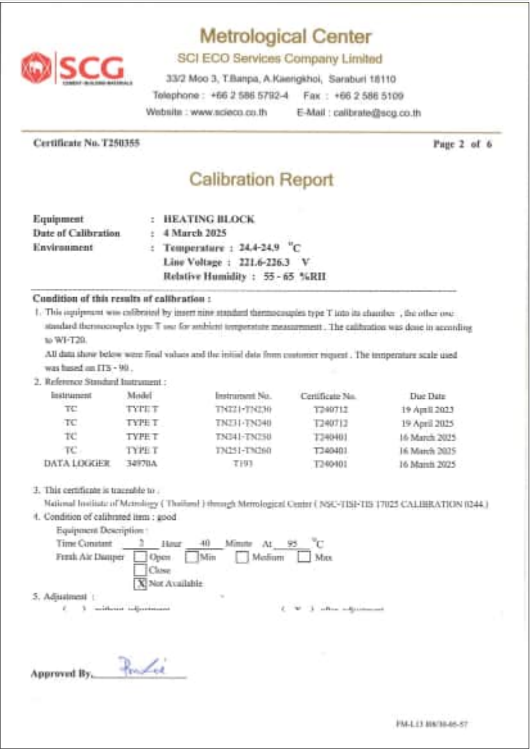
Equipment : HEATING BLOCK
Manufacturer : Environmental Express
Model : SC 196
Serial No. : 6974CECW3285
Customer Code : BKK_EL0054
ID No. : T5306A3
Customer : ALS Laboratory Group (Thailand) Co.,Ltd.
104 Phatthanakan 40, Phatthanakan Rd.,
Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250
Customer Location : Acid Digestion Lab
Date of Receipt : 26 February 2025
Calibrated By : Atiphong Kongrai (Technician)
Approved By : / Boonchai Suriyawong (Site Calibration Manager)
Date of Issue : 27 MAR 2025

REVIEW BY Tattaporn C.
APPROVED BY Samlan N
NEXT CAL. DATE ~~04/03/26~~
Samlan N
[illegible]
04/04/26

The uncertainties are for a confidence probability of approximately 95%.

This Certificate is issued in accordance with the conditions of accreditation granted by the Thai Laboratory Accreditation Scheme which has assessed the measurement capability of the laboratory and its traceability to recognized national standards and to the units of measurement realized at the corresponding national standard laboratory. This certificate may not be reproduced other than in full except with the prior written approval of the Metrological Center.

FM-L12 BB/30-05-57



Metrological Center
SCI ECO Services Company Limited
33/2 Moo 3, T.Banpa, A.Kaengkhoi, Saraburi 18110
Telephone : +66 2 586 5792-4 Fax : +66 2 586 5109
Website : www.scieco.co.th E-Mail : calibrate@scg.co.th

Certificate No. T250355 Page 2 of 6

Calibration Report

Equipment : **HEATING BLOCK**
Date of Calibration : **4 March 2025**
Environment : **Temperature : 24.4-24.9 °C**
Line Voltage : 221.6-226.3 V
Relative Humidity : 55 - 65 %RH

Condition of this results of calibration :

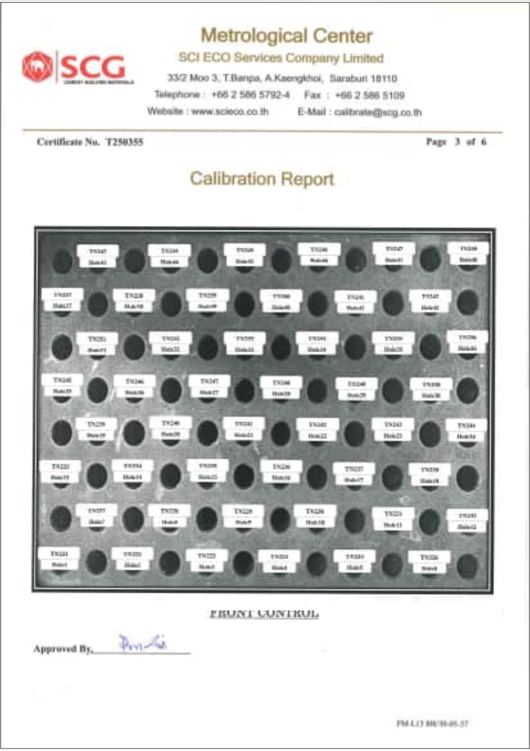
1. This equipment was calibrated by insert nine standard thermocouples type T into its chamber , the other one standard thermocouples type T use for ambient temperature measurement . The calibration was done in according to WI-T20.
   All data show below were final values and the initial data from customer request . The temperature scale used was based on ITS - 90 .
2. Reference Standard Instrument :

Instrument	Model	Instrument No.	Certificate No.	Due Date
TC	TYPE T	TN221-TN230	T240712	19 April 2025
TC	TYPE T	TN231-TN240	T240712	19 April 2025
TC	TYPE T	TN241-TN250	T240401	16 March 2025
TC	TYPE T	TN251-TN260	T240401	16 March 2025
DATA LOGGER	34970A	T193	T240401	16 March 2025

3. This certificate is traceable to :
   National Institute of Metrology (Thailand) through Metrological Center (NSC-TISI-TIS 17025 CALIBRATION 0244)
4. Condition of calibrated item : good
   Equipment Description :
   Time Constant 2 Hour 40 Minute At 95 °C
   Fresh Air Damper ☐ Open ☐ Min ☐ Medium ☐ Max
   ☐ Close
   ☒ Not Available
5. Adjustment :
   ( ) without adjustment (X) after adjustment

Approved By,

FM-L13 BB/30-05-57



Metrological Center
SCI ECO Services Company Limited
33/2 Moo 3, T.Banpa, A.Kaengkhoi, Saraburi 18110
Telephone : +66 2 586 5792-4 Fax : +66 2 586 5109
Website : www.scieco.co.th E-Mail : calibrate@scg.co.th

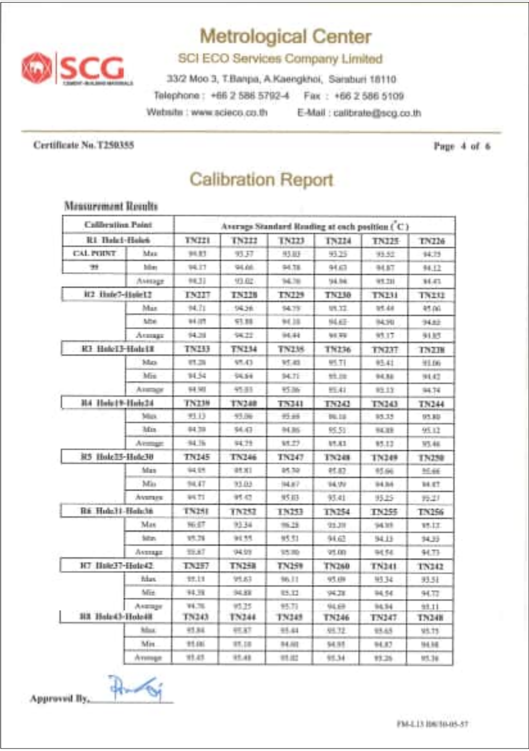
Certificate No. T250355 Page 3 of 6

Calibration Report

FRONT CONTROL

Approved By,

FM-L13 BB/30-05-57



Metrological Center
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Certificate No. T250355 Page 4 of 6

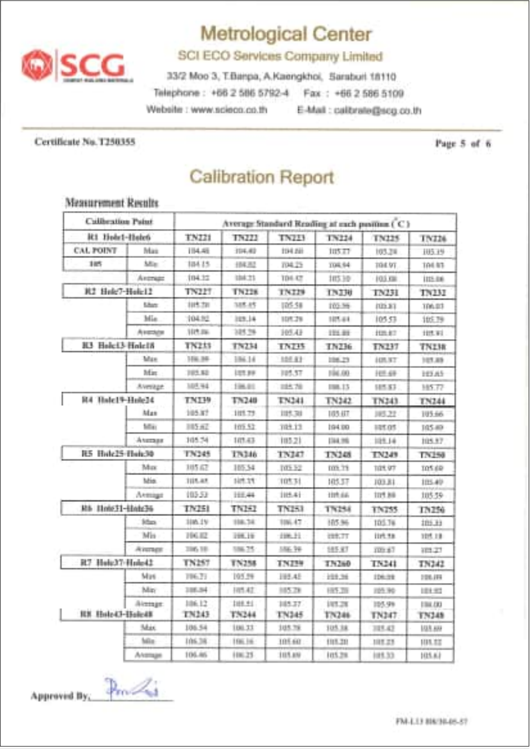
Calibration Report

Measurement Results

Calibration Point		Average Standard Reading at each position (°C)					
R1 Hole1-Hole6		TN221	TN222	TN223	TN224	TN225	TN226
CAL POINT	Max	94.85	95.37	95.03	95.25	95.52	94.75
99	Min	94.17	94.66	94.78	94.63	94.87	94.12
	Average	94.31	95.02	94.70	94.94	95.20	94.43
R2 Hole7-Hole12		TN227	TN228	TN229	TN230	TN231	TN232
	Max	94.71	94.56	94.79	95.32	95.44	95.06
	Min	94.05	93.88	94.10	94.62	94.90	94.63
	Average	94.28	94.22	94.44	94.99	95.17	94.85
R3 Hole13-Hole18		TN233	TN234	TN235	TN236	TN237	TN238
	Max	95.28	95.43	95.40	95.71	95.41	95.06
	Min	94.54	94.64	94.71	95.10	94.86	94.42
	Average	94.90	95.03	95.06	95.41	95.13	94.74
R4 Hole19-Hole24		TN239	TN240	TN241	TN242	TN243	TN244
	Max	95.13	95.06	95.68	96.10	95.35	95.80
	Min	94.39	94.43	94.86	95.51	94.88	95.12
	Average	94.76	94.75	95.27	95.83	95.12	95.46
R5 Hole25-Hole30		TN245	TN246	TN247	TN248	TN249	TN250
	Max	94.95	95.81	95.70	95.82	95.66	95.66
	Min	94.47	93.03	94.87	94.99	94.84	94.87
	Average	94.71	95.42	95.03	95.41	95.25	95.27
R6 Hole31-Hole36		TN251	TN252	TN253	TN254	TN255	TN256
	Max	96.07	93.34	96.28	95.39	94.95	95.12
	Min	95.28	94.55	95.51	94.62	94.13	94.33
	Average	95.67	94.93	95.90	95.00	94.54	94.73
R7 Hole37-Hole42		TN257	TN258	TN259	TN260	TN241	TN242
	Max	95.13	95.63	96.11	95.09	95.34	93.51
	Min	94.38	94.88	95.32	94.28	94.54	94.72
	Average	94.76	95.25	95.71	94.69	94.94	93.11
R8 Hole43-Hole48		TN243	TN244	TN245	TN246	TN247	TN248
	Max	95.84	95.87	95.44	95.72	95.65	95.75
	Min	95.06	95.10	94.60	94.95	94.87	94.98
	Average	95.45	95.48	95.02	95.34	95.26	95.36

Approved By,

FM-L13 BB/30-05-57



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SCI ECO Services Company Limited
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Certificate No. T250355 **Page 5 of 6**

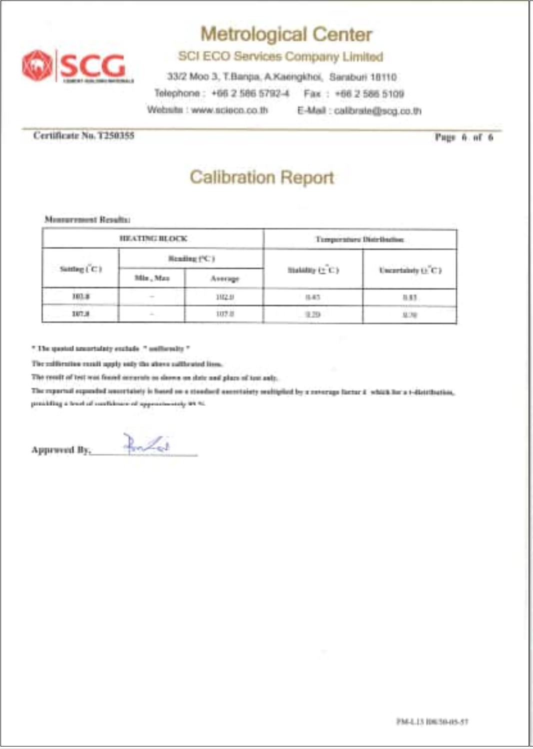
Calibration Report

Measurement Results

Calibration Point		Average Standard Reading at each position (°C)					
R1 Hole1-Hole6		TN221	TN222	TN223	TN224	TN225	TN226
CAL POINT	Max	104.48	104.40	104.60	105.77	105.24	105.19
105	Min	104.15	104.02	104.25	104.94	104.91	104.93
	Average	104.32	104.21	104.42	105.10	105.08	105.06
R2 Hole7-Hole12		TN227	TN228	TN229	TN230	TN231	TN232
	Max	105.70	105.45	105.58	105.36	105.81	106.03
	Min	104.92	105.14	105.28	105.44	105.53	105.79
	Average	105.06	105.29	105.43	105.88	105.87	105.91
R3 Hole13-Hole18		TN233	TN234	TN235	TN236	TN237	TN238
	Max	106.09	106.14	105.83	106.25	105.97	105.88
	Min	105.80	105.89	105.57	106.00	105.69	105.63
	Average	105.94	106.01	105.70	106.13	105.83	105.77
R4 Hole19-Hole24		TN239	TN240	TN241	TN242	TN243	TN244
	Max	105.87	105.75	105.30	105.07	105.22	105.66
	Min	105.62	105.52	105.13	104.00	105.05	105.49
	Average	105.74	105.63	105.21	104.98	105.14	105.57
R5 Hole25-Hole30		TN245	TN246	TN247	TN248	TN249	TN250
	Max	105.67	105.54	105.52	105.75	105.97	105.69
	Min	105.45	105.35	105.31	105.57	103.81	105.49
	Average	105.53	105.44	105.41	105.66	105.88	105.59
R6 Hole31-Hole36		TN251	TN252	TN253	TN254	TN255	TN256
	Max	106.19	106.34	106.47	105.96	105.76	105.33
	Min	106.02	106.16	106.31	105.77	105.58	105.18
	Average	106.10	106.25	106.39	105.87	105.67	105.27
R7 Hole37-Hole42		TN257	TN258	TN259	TN260	TN241	TN242
	Max	106.71	105.59	105.45	105.36	106.08	106.09
	Min	106.04	105.42	105.28	105.20	105.90	105.92
	Average	106.12	105.51	105.37	105.28	105.99	106.00
R8 Hole43-Hole48		TN243	TN244	TN245	TN246	TN247	TN248
	Max	106.54	106.33	105.78	105.38	105.42	105.69
	Min	106.38	106.16	105.60	105.20	105.25	105.52
	Average	106.46	106.25	105.69	105.29	105.33	105.61

Approved By,

FM-L13 R08/30-05-57



Metrological Center
SCI ECO Services Company Limited
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Telephone : +66 2 586 5792-4 Fax : +66 2 586 5109
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Certificate No. T250355 **Page 6 of 6**

Calibration Report

Measurement Results:

HEATING BLOCK			Temperature Distribution	
Setting (°C)	Reading (°C)		Stability (±°C)	Uncertainty (±°C)
	Min , Max	Average		
102.0	-	102.0	0.45	0.85
107.0	-	107.0	0.20	0.70

* The quoted uncertainty exclude " uniformity "

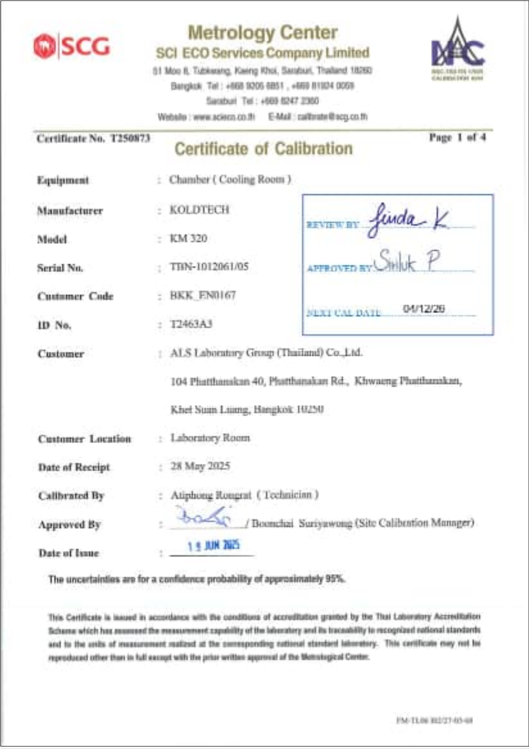
The calibration result apply only the above calibrated item.

The result of test was found accurate as shown on date and place of test only.

The reported expanded uncertainty is based on a standard uncertainty multiplied by a coverage factor k which for a t-distribution, providing a level of confidence of approximately 95 %.

Approved By,

FM-L13 R08/30-05-57



Metrology Center
SCI ECO Services Company Limited
51 Moo 8, Tubkwang, Kaeng Khoi, Saraburi, Thailand 18260
Bangkok Tel : +668 9205 6851 , +669 81924 0059
Saraburi Tel : +669 8247 2360
Website : www.scieco.co.th E-Mail : calibrate@scg.co.th

Certificate No. T250873 **Page 1 of 4**

Certificate of Calibration

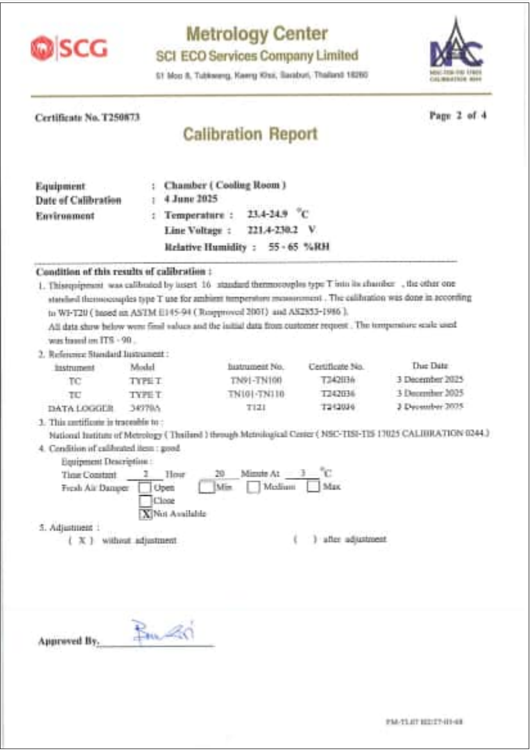
Equipment : Chamber (Cooling Room)
Manufacturer : KOLDTECH
Model : KM 320
Serial No. : TBN-1012061/05
Customer Code : BKK_EN0167
ID No. : T2463A3
Customer : ALS Laboratory Group (Thailand) Co.,Ltd.
104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan,
Khet Suan Luang, Bangkok 10250
Customer Location : Laboratory Room
Date of Receipt : 28 May 2025
Calibrated By : Atiphong Rongrat (Technician)
Approved By : / Boonchai Suriyawong (Site Calibration Manager)
Date of Issue : 1 9 JUN 2025

REVIEW BY Jinda K
APPROVED BY Siriluk P
NEXT CAL DATE 04/12/26

The uncertainties are for a confidence probability of approximately 95%.

This Certificate is issued in accordance with the conditions of accreditation granted by the Thai Laboratory Accreditation Scheme which has assessed the measurement capability of the laboratory and its traceability to recognized national standards and to the units of measurement realized at the corresponding national standard laboratory. This certificate may not be reproduced other than in full except with the prior written approval of the Metrological Center.

FM-TL06 R02/27-03-68



Metrology Center
SCI ECO Services Company Limited
51 Moo 8, Tubkwang, Kaeng Khoi, Saraburi, Thailand 18260

Certificate No. T250873 **Page 2 of 4**

Calibration Report

Equipment : **Chamber (Cooling Room)**
Date of Calibration : **4 June 2025**
Environment : **Temperature : 23.4-24.9 °C**
Line Voltage : 221.4-230.2 V
Relative Humidity : 55 - 65 %RH

Condition of this results of calibration :

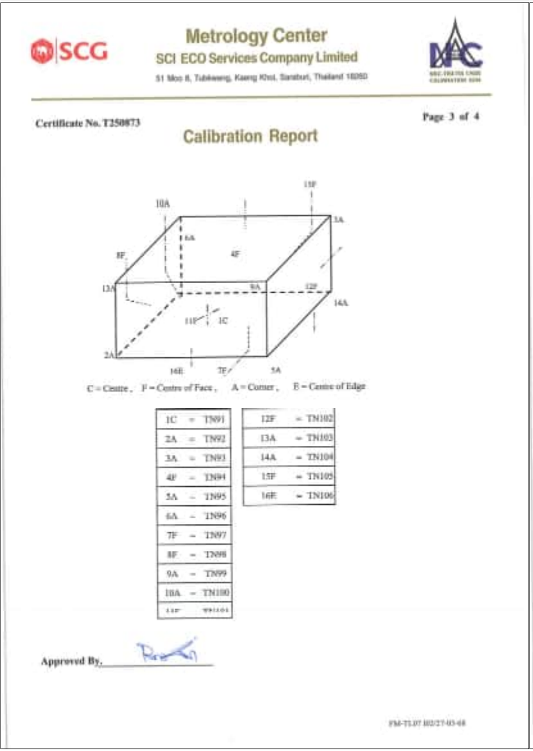
1. This equipment was calibrated by insert 16 standard thermocouples type T into its chamber , the other one standard thermocouples type T use for ambient temperature measurement . The calibration was done in according to WI-T20 (based on ASTM E145-94 (Reapproved 2001) and AS2853-1986).
   All data show below were final values and the initial data from customer request . The temperature scale used was based on ITS - 90 .
2. Reference Standard Instrument :

Instrument	Model	Instrument No.	Certificate No.	Due Date
TC	TYPE T	TN91-TN100	T242036	3 December 2025
TC	TYPE T	TN101-TN110	T242036	3 December 2025
DATA LOGGER	34970A	T121	T242034	3 December 2025

3. This certificate is traceable to :
   National Institute of Metrology (Thailand) through Metrological Center (NSC-TISI-TIS 17025 CALIBRATION 0244)
4. Condition of calibrated item : good
   Equipment Description :
   Time Constant 2 Hour 20 Minute At 3 °C
   Fresh Air Damper ☐ Open ☐ Min ☐ Medium ☐ Max
   ☐ Close
   ☒ Not Available
5. Adjustment :
   (X) without adjustment ( ) after adjustment

Approved By,

FM-TL07 R02/27-03-68



Metrology Center
SCI ECO Services Company Limited
51 Moo 8, Tubkwang, Kaeng Khoi, Saraburi, Thailand 18260

Certificate No. T250873 **Page 3 of 4**

Calibration Report

15F
10A
3A
6A
4F
8F
13A
9A
12F
14A
11F
1C
2A
16E
7F
5A

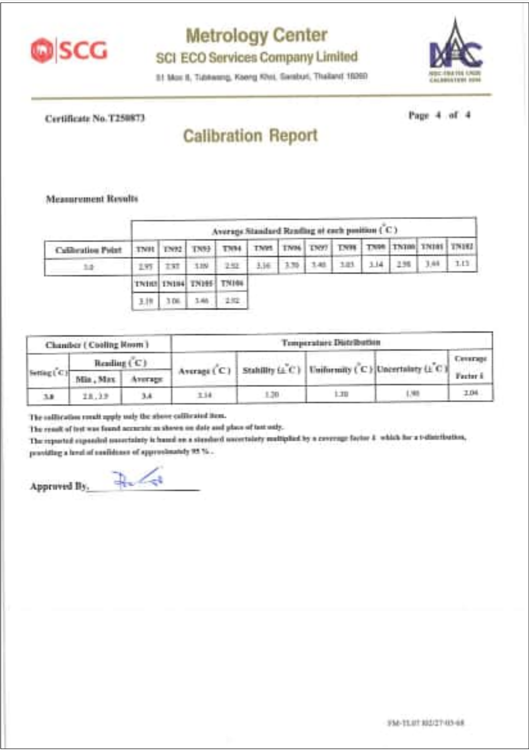
C = Centre , F = Centre of Face , A = Corner , E = Centre of Edge

1C = TN91
2A = TN92
3A = TN93
4F = TN94
5A = TN95
6A = TN96
7F = TN97
8F = TN98
9A = TN99
10A = TN100
11F = TN101

12F = TN102
13A = TN103
14A = TN104
15F = TN105
16E = TN106

Approved By,

FM-TL07 R02/27-03-68



Metrology Center
SCI ECO Services Company Limited
51 Moo 8, Tubkwang, Kaeng Khoi, Saraburi, Thailand 18260

Certificate No. T250873 **Page 4 of 4**

Calibration Report

Measurement Results

Calibration Point	Average Standard Reading at each position (°C)											
	TN91	TN92	TN93	TN94	TN95	TN96	TN97	TN98	TN99	TN100	TN101	TN102
3.0	2.95	2.97	3.09	2.52	3.16	3.70	3.40	3.03	3.14	2.98	3.44	3.13
	TN103	TN104	TN105	TN106								
	3.19	3.06	3.46	2.92								

Chamber (Cooling Room)			Temperature Distribution				
Setting (°C)	Reading (°C)		Average (°C)	Stability (±°C)	Uniformity (°C)	Uncertainty (±°C)	Coverage Factor k
	Min , Max	Average					
3.0	2.8 , 3.9	3.4	3.14	1.20	1.30	1.90	2.04

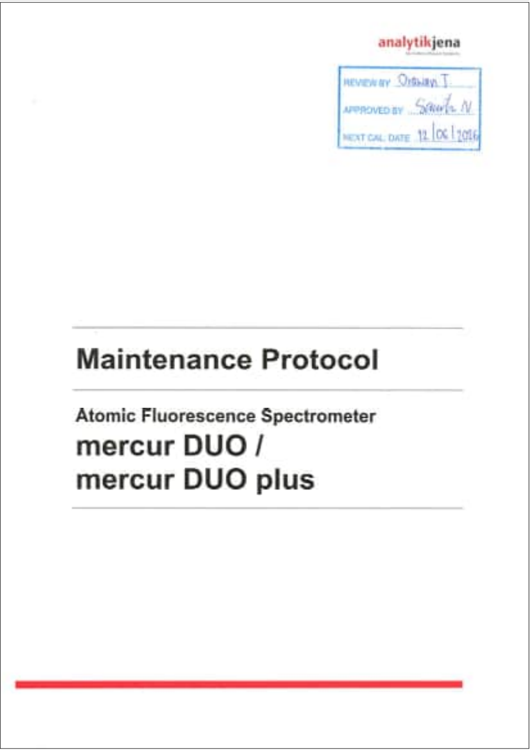
The calibration result apply only the above calibrated item.

The result of test was found accurate as shown on date and place of test only.

The reported expanded uncertainty is based on a standard uncertainty multiplied by a coverage factor k which for a t-distribution, providing a level of confidence of approximately 95 %.

Approved By,

FM-TL07 R02/27-03-68

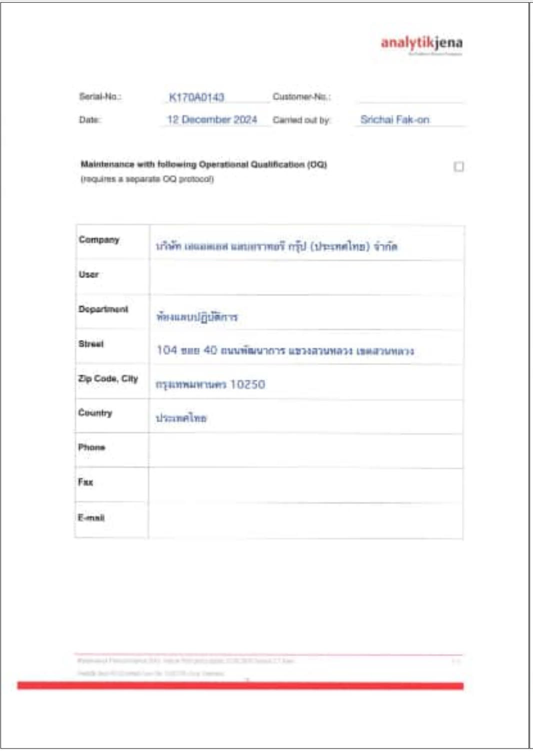


analytikjena

REVIEW BY Orawan T.
APPROVED BY Sarawut N
NEXT CAL DATE 12 | 06 | 2026

Maintenance Protocol

Atomic Fluorescence Spectrometer
mercur DUO / mercur DUO plus

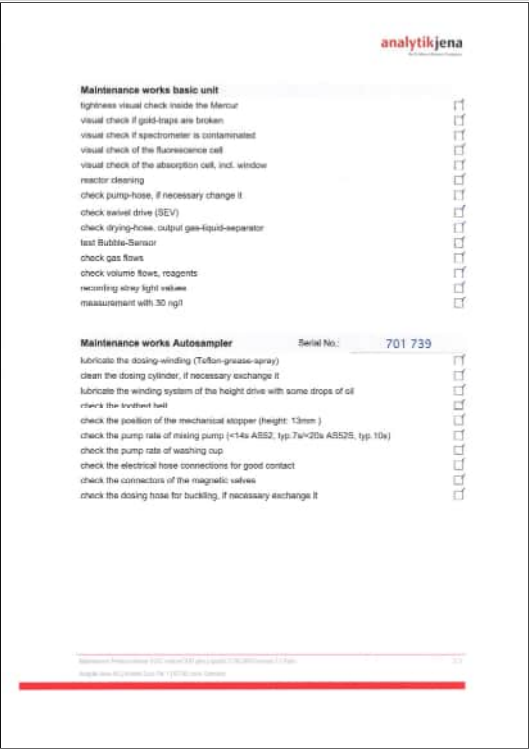


analytikjena

Serial-No.: K170A0143 Customer-No.:
Date: 12 December 2024 Carried out by: Srichai Fak-on

Maintenance with following Operational Qualification (OQ) ☐
(requires a separate OQ protocol)

Company	บริษัท เอแอลเอส แลบอราทอรี่ กรุ๊ป (ประเทศไทย) จำกัด
User	
Department	ห้องแลบปฏิบัติการ
Street	104 ซอย 40 ถนนพัฒนาการ แขวงสวนหลวง เขตสวนหลวง
Zip Code, City	กรุงเทพมหานคร 10250
Country	ประเทศไทย
Phone	
Fax	
E-mail	



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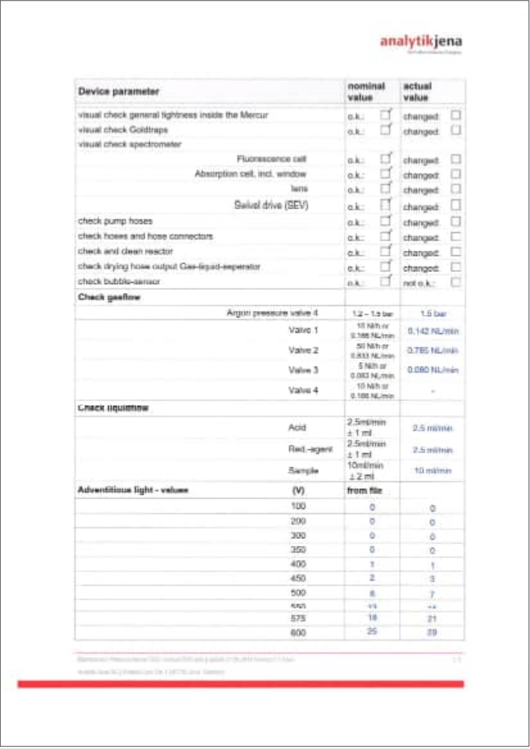
Maintenance works basic unit

- tightness visual check inside the Mercur ☑
- visual check if gold-traps are broken ☑
- visual check if spectrometer is contaminated ☑
- visual check of the fluorescence cell ☑
- visual check of the absorption cell, incl. window ☑
- reactor cleaning ☑
- check pump-hose, if necessary change it ☑
- check swivel drive (SEV) ☑
- check drying-hose, output gas-liquid-separator ☑
- test Bubble-Sensor ☑
- check gas flows ☑
- check volume flows, reagents ☑
- recording stray light values ☑
- measurement with 30 ng/l ☑

Maintenance works Autosampler Serial No.: 701 739

- lubricate the dosing-winding (Teflon-grease-spray) ☑
- clean the dosing cylinder, if necessary exchange it ☑
- lubricate the winding system of the height drive with some drops of oil ☑
- check the toothed belt ☑
- check the position of the mechanical stopper (height: 13mm) ☑
- check the pump rate of mixing pump (<14s AS52, typ.7s/<20s AS52S, typ.10s) ☑
- check the pump rate of washing cup ☑
- check the electrical hose connections for good contact ☑
- check the connectors of the magnetic valves ☑
- check the dosing hose for buckling, if necessary exchange it ☑



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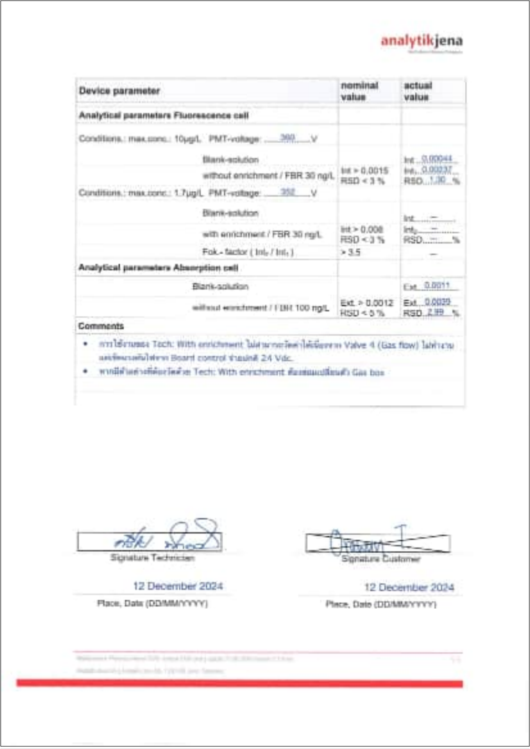
Device parameter	nominal value	actual value
visual check general tightness inside the Mercur	o.k.: ☑	changed: ☐
visual check Goldtraps	o.k.: ☑	changed: ☐
visual check spectrometer		
Fluorescence cell	o.k.: ☑	changed: ☐
Absorption cell, incl. window	o.k.: ☑	changed: ☐
lens	o.k.: ☑	changed: ☐
Swivel drive (SEV)	o.k.: ☑	changed: ☐
check pump hoses	o.k.: ☑	changed: ☐
check hoses and hose connectors	o.k.: ☑	changed: ☐
check and clean reactor	o.k.: ☑	changed: ☐
check drying hose output Gas-liquid-seperator	o.k.: ☑	changed: ☐
check bubble-sensor	o.k.: ☑	not o.k.: ☐
Check gasflow		
Argon pressure valve 4	1.2 – 1.5 bar	1.5 bar
Valve 1	10 Nl/h or 0.166 NL/min	0.142 NL/min
Valve 2	50 Nl/h or 0.833 NL/min	0.785 NL/min
Valve 3	5 Nl/h or 0.083 NL/min	0.080 NL/min
Valve 4	10 Nl/h or 0.166 NL/min	-
Check liquidflow		
Acid	2.5ml/min ± 1 ml	2.5 ml/min
Red.-agent	2.5ml/min ± 1 ml	2.5 ml/min
Sample	10ml/min ± 2 ml	10 ml/min
Adventitious light - values (V)	**from file**	
100	0	0
200	0	0
300	0	0
350	0	0
400	1	1
450	2	3
500	6	7
550	11	14
575	18	21
600	25	29



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Device parameter	nominal value	actual value
Analytical parameters Fluorescence cell		
Conditions.: max.conc.: 10µg/L PMT-voltage: 360 V		
Blank-solution without enrichment / FBR 30 ng/L	Int > 0.0015 RSD < 3 %	Int 0.00044 Int$_1$ 0.00037 RSD 1.30 %
Conditions.: max.conc.: 1.7µg/L PMT-voltage: 352 V		
Blank-solution with enrichment / FBR 30 ng/L	Int > 0.008 RSD < 3 %	Int – Int$_2$ – RSD – %
Fok.- factor (Int$_2$ / Int$_1$)	> 3.5	–
Analytical parameters Absorption cell		
Blank-solution		Ext. 0.0011
without enrichment / FBR 100 ng/L	Ext. > 0.0012 RSD < 5 %	Ext. 0.0039 RSD 2.99 %

Comments

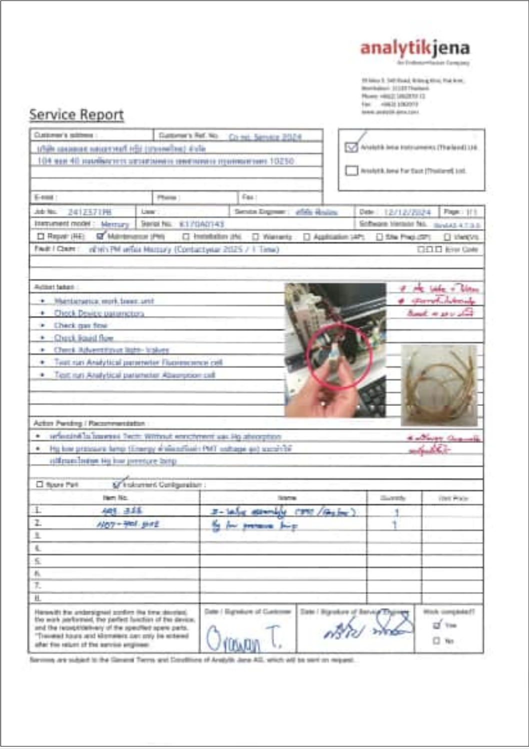
- [illegible] Tech: With enrichment [illegible] Valve 4 (Gas flow) [illegible] Board control [illegible] 24 Vdc.
- [illegible] Tech: With enrichment [illegible] Gas box

Signature Technician

Orawan T.
Signature Customer

12 December 2024
Place, Date (DD/MM/YYYY)

12 December 2024
Place, Date (DD/MM/YYYY)



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Service Report

Customer's address : [illegible]	Customer's Ref. No. Co no. Service 2024	☑ Analytik Jena Instruments (Thailand) Ltd.
104 [illegible] 10250		☐ Analytik Jena Far East (Thailand) Ltd.
E-mail :	Phone :	Fax :

Job No. 2412371PB | Law : | Service Engineer : [illegible] | Date : 12/12/2024 | Page : 1/1

Instrument model : Mercury | Serial No. K170A0143 | Software Version No. WinAAS 4.7.10.0

☐ Repair (RE) ☑ Maintenance (PM) ☐ Installation (IN) ☐ Warranty ☐ Application (AP) ☐ Site Prep.(SP) ☐ Visit(VI)

Fault / Claim : [illegible] PM [illegible] Mercury (Contactyear 2025 / 1 Time) ☐☐☐ Error Code

Action taken :
- Maintenance work base unit
- Check Device parameters
- Check gas flow
- Check liquid flow
- Check Adventitious light- Values
- Test run Analytical parameter Fluorescence cell
- Test run Analytical parameter Absorption cell

Action Pending / Recommendation :
- [illegible] Tech: Without enrichment [illegible] Hg absorption
- Hg low pressure lamp (Energy [illegible] PMT voltage [illegible]) [illegible] Hg low pressure lamp

☐ Spare Part ☑ Instrument Configuration :

	Item No.	Name	Quantity	Unit Price
1.	[illegible]	3-Valve assembly ([illegible] / Gas box)	1	
2.	[illegible]	Hg low pressure lamp	1	
3.				
4.				
5.				
6.				
7.				
8.				

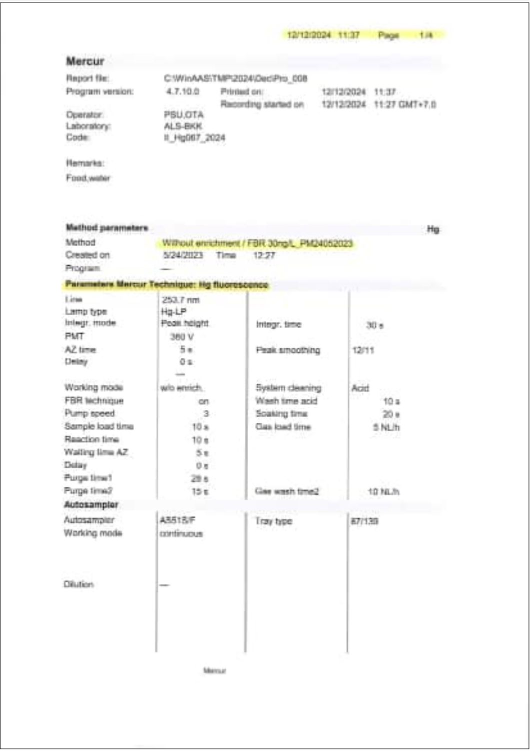
Herewith the undersigned confirm the time devoted, the work performed, the perfect function of the device, and the receipt/delivery of the specified spare parts. *Traveled hours and kilometers can only be entered after the return of the service engineer.

Date / Signature of Customer: Orawan T.

Date / Signature of Service Engineer:

Work completed? ☑ Yes ☐ No

Services are subject to the General Terms and Conditions of Analytik Jena AG, which will be sent on request.



12/12/2024 11:37 Page 1/4

Mercur

Report file:	C:\WinAAS\TMP\2024\Dec\Pro_008		
Program version:	4.7.10.0	Printed on:	12/12/2024 11:37
		Recording started on	12/12/2024 11:27 GMT+7.0
Operator:	PSU.OTA		
Laboratory:	ALS-BKK		
Code:	II_Hg067_2024		

Remarks:
Food,water

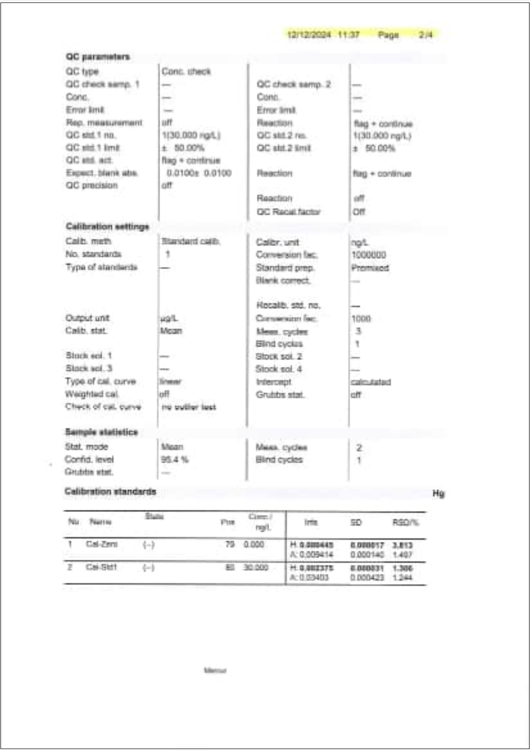
Method parameters Hg

Method: Without enrichment / FBR 30ng/L_PM24052023
Created on: 5/24/2023 Time 12:27
Program: —

Parameters Mercur Technique: Hg fluorescence

Line	253.7 nm		
Lamp type	Hg-LP		
Integr. mode	Peak height	Integr. time	30 s
PMT	360 V		
AZ time	5 s	Peak smoothing	12/11
Delay	0 s —		
Working mode	w/o enrich.	System cleaning	Acid
FBR technique	on	Wash time acid	10 s
Pump speed	3	Soaking time	20 s
Sample load time	10 s	Gas load time	5 NL/h
Reaction time	10 s		
Waiting time AZ	5 s		
Delay	0 s		
Purge time1	28 s		
Purge time2	15 s	Gas wash time2	10 NL/h
Autosampler			
Autosampler	AS51S/F	Tray type	87/139
Working mode	continuous		
Dilution	—		

Mercur



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QC parameters

QC type	Conc. check		
QC check samp. 1	—	QC check samp. 2	—
Conc.	—	Conc.	—
Error limit	—	Error limit	—
Rep. measurement	off	Reaction	flag + continue
QC std.1 no.	1(30.000 ng/L)	QC std.2 no.	1(30.000 ng/L)
QC std.1 limit	± 50.00%	QC std.2 limit	± 50.00%
QC std. act.	flag + continue		
Expect. blank abs.	0.0100± 0.0100	Reaction	flag + continue
QC precision	off		
		Reaction	off
		QC Recal.factor	Off

Calibration settings

Calib. meth	Standard calib.	Calibr. unit	ng/L
No. standards	1	Conversion fac.	1000000
Type of standards	—	Standard prep.	Premixed
		Blank correct.	—
		Recalib. std. no.	—
Output unit	µg/L	Conversion fac.	1000
Calib. stat.	Mean	Meas. cycles	3
		Blind cycles	1
Stock sol. 1	—	Stock sol. 2	—
Stock sol. 3	—	Stock sol. 4	—
Type of cal. curve	linear	Intercept	calculated
Weighted cal.	off	Grubbs stat.	off
Check of cal. curve	no outlier test		

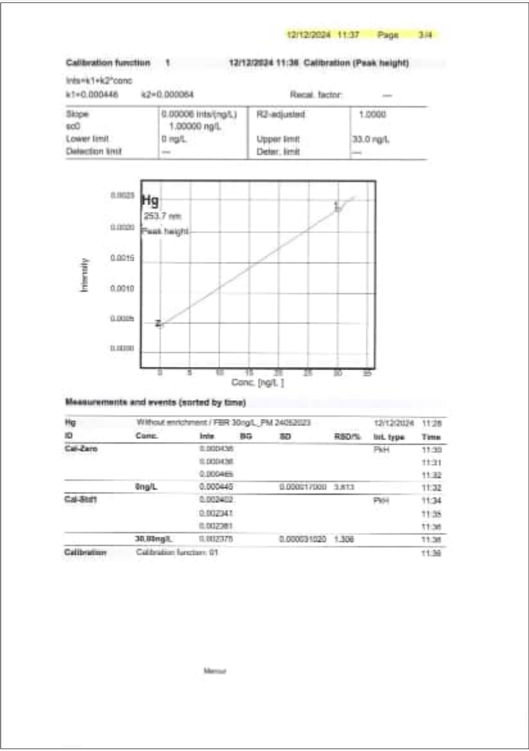
Sample statistics

Stat. mode	Mean	Meas. cycles	2
Confid. level	95.4 %	Blind cycles	1
Grubbs stat.	—		

Calibration standards Hg

No	Name	State	Pos	Conc./ ng/L	Ints	SD	RSD/%
1	Cal-Zero	(–)	79	0.000	H: **0.000445** A: 0.009414	**0.000017** 0.000140	**3.813** 1.407
2	Cal-Std1	(–)	80	30.000	H: **0.002375** A: 0.03403	**0.000031** 0.000423	**1.306** 1.244

Mercur



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Calibration function 1 **12/12/2024 11:36 Calibration (Peak height)**

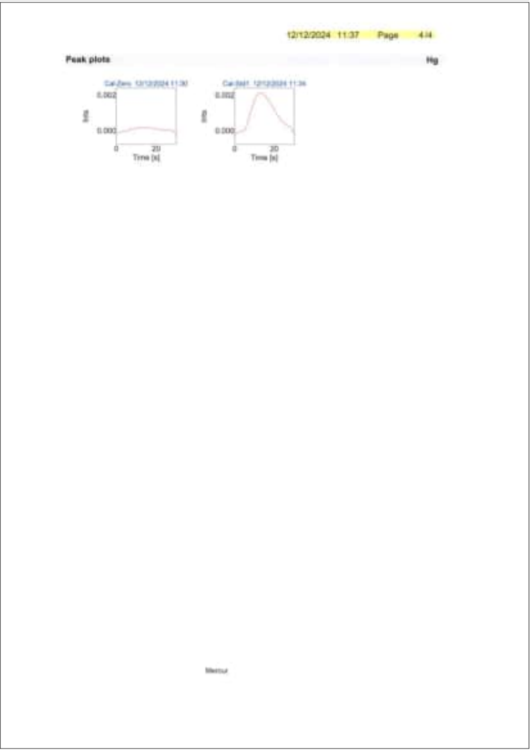
Ints=k1+k2*conc
k1=0.000446 k2=0.000064 Recal. factor: —

Slope	0.00006 Ints/(ng/L)	R2-adjusted	1.0000
sc0	1.00000 ng/L		
Lower limit	0 ng/L	Upper limit	33.0 ng/L
Detection limit	—	Deter. limit	—

Measurements and events (sorted by time)

Hg	Without enrichment / FBR 30ng/L_PM 24052023					12/12/2024	11:28
ID	Conc.	Ints	BG	SD	RSD/%	Int. type	Time
Cal-Zero		0.000436				PkH	11:30
		0.000438					11:31
		0.000465					11:32
	0ng/L	0.000446		0.000017000	3.813		11:32
Cal-Std1		0.002402				PkH	11:34
		0.002341					11:35
		0.002381					11:36
	30.00ng/L	0.002375		0.000031020	1.306		11:36
Calibration	Calibration function: 01						11:36

Mercur



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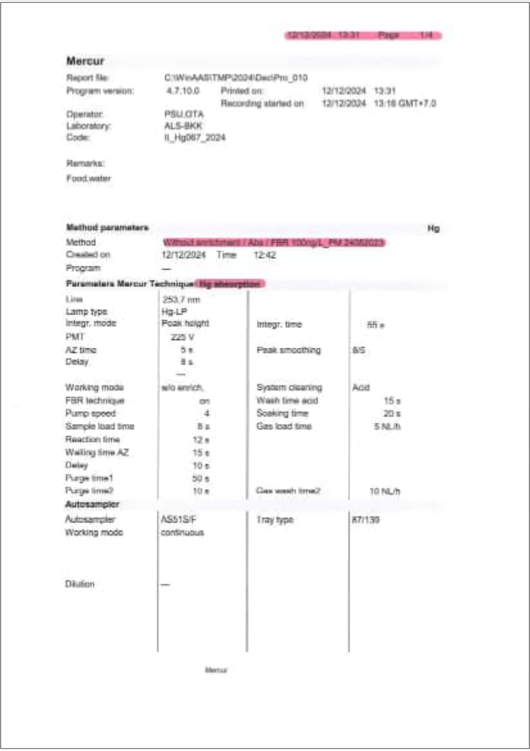
Peak plots Hg

Mercur



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Mercur

Report file:	C:\WinAAS\TMP\2024\Dec\Pro_010		
Program version:	4.7.10.0	Printed on:	12/12/2024 13:31
		Recording started on	12/12/2024 13:16 GMT+7.0
Operator:	PSU.OTA		
Laboratory:	ALS-BKK		
Code:	II_Hg067_2024		

Remarks:
Food,water

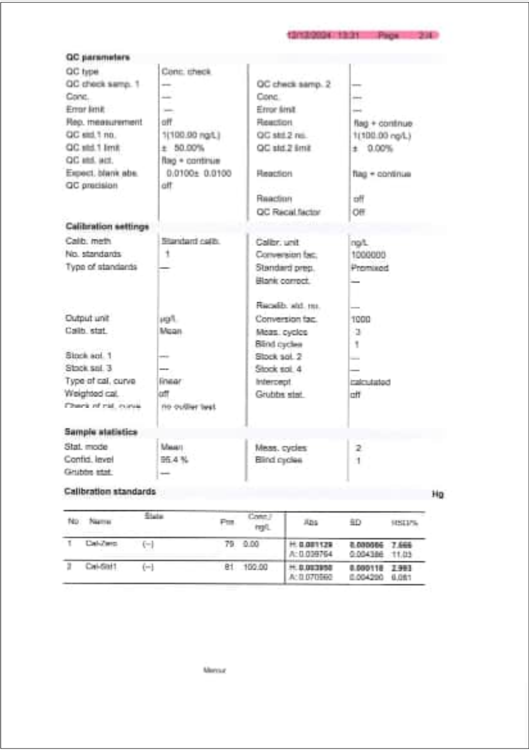
Method parameters Hg

Method: Without enrichment / Abs / FBR 100ng/L_PM 24052023
Created on: 12/12/2024 Time 12:42
Program: —

Parameters Mercur Technique: Hg absorption

Line	253.7 nm		
Lamp type	Hg-LP		
Integr. mode	Peak height	Integr. time	55 s
PMT	225 V		
AZ time	5 s	Peak smoothing	8/5
Delay	8 s —		
Working mode	w/o enrich.	System cleaning	Acid
FBR technique	on	Wash time acid	15 s
Pump speed	4	Soaking time	20 s
Sample load time	8 s	Gas load time	5 NL/h
Reaction time	12 s		
Waiting time AZ	15 s		
Delay	10 s		
Purge time1	50 s		
Purge time2	10 s	Gas wash time2	10 NL/h
Autosampler			
Autosampler	AS51S/F	Tray type	87/139
Working mode	continuous		
Dilution	—		

Mercur



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QC parameters

QC type	Conc. check		
QC check samp. 1	—	QC check samp. 2	—
Conc.	—	Conc.	—
Error limit	—	Error limit	—
Rep. measurement	off	Reaction	flag + continue
QC std.1 no.	1(100.00 ng/L)	QC std.2 no.	1(100.00 ng/L)
QC std.1 limit	± 50.00%	QC std.2 limit	± 0.00%
QC std. act.	flag + continue		
Expect. blank abs.	0.0100± 0.0100	Reaction	flag + continue
QC precision	off		
		Reaction	off
		QC Recal.factor	Off

Calibration settings

Calib. meth	Standard calib.	Calibr. unit	ng/L
No. standards	1	Conversion fac.	1000000
Type of standards	—	Standard prep.	Premixed
		Blank correct.	—
		Recalib. std. no.	—
Output unit	µg/L	Conversion fac.	1000
Calib. stat.	Mean	Meas. cycles	3
		Blind cycles	1
Stock sol. 1	—	Stock sol. 2	—
Stock sol. 3	—	Stock sol. 4	—
Type of cal. curve	linear	Intercept	calculated
Weighted cal.	off	Grubbs stat.	off
Check of cal. curve	no outlier test		

Sample statistics

Stat. mode	Mean	Meas. cycles	2
Confid. level	95.4 %	Blind cycles	1
Grubbs stat.	—		

Calibration standards Hg

No	Name	State	Pos	Conc./ ng/L	Abs	SD	RSD/%
1	Cal-Zero	(–)	79	0.00	H: **0.001129** A: 0.039764	**0.000086** 0.004386	**7.666** 11.03
2	Cal-Std1	(–)	81	100.00	H: **0.003950** A: 0.070560	**0.000118** 0.004200	**2.993** 6.081

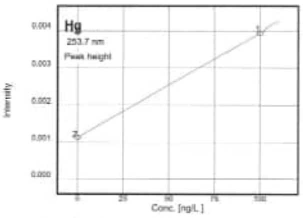
Mercur

Calibration function 1 **12/12/2024 13:31 Calibration (Peak height)**

Abs=k1+k2*conc

k1=0.001130 k2=0.000028 Recal. factor: —

Slope	0.00003 Abs/(ng/L)	R2-adjusted	1.0000
sc0	1.00000 ng/L	Charact. conc.	154.568 (ng/L)/1%I
Lower limit	0 ng/L	Upper limit	110. ng/L
Detection limit	—	Deter. limit	—

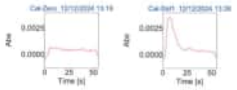


Measurements and events (sorted by time)

Hg Without enrichment / Abs / FBR 100ng/L_PM 24052023 12/12/2024 13:16

ID	Conc.	Abs	BG	SD	RSD/%	Int. type	Time
Cal-Zero		0.001062				PkH	13:19
		0.001227					13:20
		0.001099					13:22
	0ng/L	0.001129		0.0000866505	7.666		13:22
Cal-Std1		0.003949				PkH	13:26
		0.004069					13:27
		0.003832					13:29
	100.ng/L	0.003950		0.00011825	2.993		13:29
Calibration	Calibration function: 01						13:21

Peak plots **Hg**



ภาคผนวก จ

สำเนาหนังสืออนุญาตขึ้นทะเบียน
ห้องปฏิบัติการวิเคราะห์เอกชน

ที่ อก ๐๓๑๐(๑)/ ๑๖๑๖๘

กรมโรงงานอุตสาหกรรม
ถนนพระรามที่ ๖ แขวงทุ่งพญาไท
เขตราชเทวี กรุงเทพฯ ๑๐๔๐๐

๒๐ พฤศจิกายน ๒๕๖๖

เรื่อง ต่ออายุหนังสือรับขึ้นทะเบียนห้องปฏิบัติการวิเคราะห์เอกชน

เรียน กรรมการผู้จัดการ บริษัท เอนแอลเอส แลบอราทอรี กรุ๊ป (ประเทศไทย) จำกัด

อ้างถึง คำขอขึ้นทะเบียน/ต่ออายุ/เปลี่ยนแปลงบุคลากร และชนิดสารมลพิษของห้องปฏิบัติการวิเคราะห์เอกชน ลงวันที่ ๔ สิงหาคม ๒๕๖๖

สิ่งที่ส่งมาด้วย ๑. รายชื่อผู้ควบคุมดูแลห้องปฏิบัติการวิเคราะห์ จำนวน ๑ แผ่น
๒. รายชื่อเจ้าหน้าที่ประจำห้องปฏิบัติการวิเคราะห์ จำนวน ๕ แผ่น
๓. ขอบข่ายสารมลพิษที่ได้รับขึ้นทะเบียนจากกรมโรงงานอุตสาหกรรม จำนวน ๓๑ แผ่น

ตามหนังสือที่อ้างถึง บริษัท เอนแอลเอส แลบอราทอรี กรุ๊ป (ประเทศไทย) จำกัด ขอต่ออายุหนังสือรับขึ้นทะเบียนห้องปฏิบัติการวิเคราะห์เอกชน เลขทะเบียน ว-๒๐๔ สถานที่ตั้งเลขที่ ๑๐๔ ซอยพัฒนาการ ๔๐ ถนนพัฒนาการ แขวงพัฒนาการ เขตสวนหลวง กรุงเทพมหานคร ต่อกรมโรงงานอุตสาหกรรม นั้น

กรมโรงงานอุตสาหกรรมพิจารณาแล้ว ให้บริษัท เอนแอลเอส แลบอราทอรี กรุ๊ป (ประเทศไทย) จำกัด ต่ออายุหนังสือรับขึ้นทะเบียนห้องปฏิบัติการวิเคราะห์เอกชน โดยมีองค์ประกอบดังนี้

ก. ผู้ควบคุมดูแลห้องปฏิบัติการวิเคราะห์ จำนวน ๖ ราย ตามสิ่งที่ส่งมาด้วย ๑
ข. เจ้าหน้าที่ประจำห้องปฏิบัติการวิเคราะห์ ๑๘๑ ราย ตามสิ่งที่ส่งมาด้วย ๒
ค. ขอบข่ายสารมลพิษที่ได้รับขึ้นทะเบียนให้วิเคราะห์ในน้ำเสีย น้ำใต้ดิน อากาศเสีย สิ่งปฏิกูลหรือวัสดุที่ไม่ใช้แล้ว และดิน ตามสิ่งที่ส่งมาด้วย ๓

หนังสือฉบับนี้จะหมดอายุในวันที่ ๒ กันยายน ๒๕๖๙ หากประสงค์จะต่ออายุหนังสือรับขึ้นทะเบียนห้องปฏิบัติการวิเคราะห์เอกชน ให้ยื่นคำขอต่ออายุพร้อมเอกสารประกอบคำขอต่อกรมโรงงานอุตสาหกรรม ภายใน ๓๐ วัน ก่อนวันสิ้นอายุของหนังสือรับขึ้นทะเบียนห้องปฏิบัติการวิเคราะห์เอกชน ทั้งนี้ สามารถยื่นคำขอผ่านระบบอิเล็กทรอนิกส์ได้ที่หน้าเว็บไซต์กรมโรงงานอุตสาหกรรม

จึงเรียนมาเพื่อทราบ

ขอแสดงความนับถือ

(นายศิระ จันทร์เนิด)
นักวิทยาศาสตร์เชี่ยวชาญ รักษาราชการแทน
ผู้อำนวยการกองวิจัยและเตือนภัยมลพิษโรงงาน
ปฏิบัติราชการแทนอธิบดีกรมโรงงานอุตสาหกรรม

กองวิจัยและเตือนภัยมลพิษโรงงาน
กลุ่มมาตรฐานวิธีการวิเคราะห์ทดสอบมลพิษและทะเบียนห้องปฏิบัติการ
โทร. ๐ ๒๔๓๐ ๖๓๑๒ ต่อ ๒๓๐๓-๕
โทรสาร ๐ ๒๔๓๐ ๖๓๑๒ ต่อ ๒๓๙๙
ไปรษณีย์อิเล็กทรอนิกส์ saraban@diw.mail.go.th

Green Industry "อุตสาหกรรมก้าวไกล ประเทศไทยก้าวหน้า ร่วมกันพัฒนา อุตสาหกรรมสีเขียว"

สิ่งที่ส่งมาด้วย ๑

เอกสารแนบท้ายหนังสือรับต่ออายุขึ้นทะเบียนห้องปฏิบัติการวิเคราะห์เอกชน
บริษัท เอนแอลเอส แลบอราทอรี กรุ๊ป (ประเทศไทย) จำกัด เลขทะเบียน ว-๒๐๔
ที่ อก ๐๓๑๐(๑)/ ๑๖๑๖๘ ลงวันที่ ๒๐ พฤศจิกายน ๒๕๖๖

ก. ผู้ควบคุมดูแลห้องปฏิบัติการวิเคราะห์ จำนวน ๖ ราย

๑) นางสาวยุพาพร จันทร์เปล่ง	ทะเบียนเลขที่ ว-๒๐๔-ค-๐๐๐๑
๒) นางสาวชัชนัย โกมารกุล ณ นคร	ทะเบียนเลขที่ ว-๒๐๔-ค-๐๐๐๒
๓) นายศรายุทธ จิตรานนท์	ทะเบียนเลขที่ ว-๒๐๔-ค-๐๐๐๓
๔) นางสาวกนกกร เอนก	ทะเบียนเลขที่ ว-๒๐๔-ค-๐๐๐๔
๕) นายสุริยา สอนแก้ว	ทะเบียนเลขที่ ว-๒๐๔-ค-๐๐๐๕
๖) นายวิชาญ ขุนหรัด	ทะเบียนเลขที่ ว-๒๐๔-ค-๐๐๐๖

สิ่งที่ส่งมาด้วย ๒

เอกสารแนบท้ายหนังสือรับต่ออายุขึ้นทะเบียนห้องปฏิบัติการวิเคราะห์เอกชน
บริษัท เอนแอลเอส แลบอราทอรี กรุ๊ป (ประเทศไทย) จำกัด เลขทะเบียน ว-๒๐๔
ที่ อก ๐๓๑๐(๑)/ ๑๖๑๖๘ ลงวันที่ ๒๐ พฤศจิกายน ๒๕๖๖

ข. เจ้าหน้าที่ประจำห้องปฏิบัติการวิเคราะห์ จำนวน ๑๘๑ ราย

๑) นายการบัณฑิต กิตติศุภวณิชย์	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๐๐๑
๒) นายภัทรพล สว่างใจธรรม์	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๐๐๒
๓) นายนราธิป เทือกชัยคำ	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๐๐๓
๔) นายศิริโชค พงษ์ประสม	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๐๐๔
๕) นายณัฐวุฒิ ด้วงแพง	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๐๐๕
๖) นางสาวจินดา ไชจุลธรรม	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๐๐๖
๗) นางสาวสาวิตรี น้อยเสงี่ยม	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๐๐๗
๘) นางสาวขณัฐกาญจน์ อิ่มขม	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๐๐๘
๙) นางสาวนรินทร์ สายเส็ง	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๐๐๙
๑๐) นางสาวนันทวดี สมบูรณ์	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๐๑๐
๑๑) นางสาวศรัณยา เฉลิมธำรงค์	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๐๑๑
๑๒) นางสาวธัญญธร มงคลจิรวุฒิ	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๐๑๒
๑๓) นางสาวศิริลักษณ์ บุนนาค	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๐๑๓
๑๔) นายนพพงศ์ จันทรพันธุ์	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๐๑๔
๑๕) นายนรเศรษฐ์ โกมาลย์	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๐๑๕
๑๖) นายธันวา จริยา	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๐๑๖
๑๗) นางสาวเกศรินทร์ แก้วมั่น	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๐๑๗
๑๘) นางสาวสุวิมล ชัยเรืองวุฒิ	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๐๑๘
๑๙) นางสาวสุชาดา ธรรมถาวร	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๐๑๙
๒๐) นางสาวเปมิกา ชัยเดชธนกุล	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๐๒๐
๒๑) นางสาวศศิธร หมูสวัสดิ์	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๐๒๑
๒๒) นางสาวเสาวลักษณ์ ภู่นภาอำพร	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๐๒๒
๒๓) นายอภิสิทธิ์ สิงหา	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๐๒๓
๒๔) นายศักดิ์สิทธิ์ ไพศาลพิสุทธิ์	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๐๒๔
๒๕) ว่าที่ร้อยตรีหญิง พรรณิภา ขำเจริญ	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๐๒๕
๒๖) นางจิลดา คำภูแก้ว	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๐๒๖
๒๗) นางสาวอรวรรณ รักยง	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๐๒๗
๒๘) นางสาวนพรัตน์ แย้มกรานต์	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๐๒๘
๒๙) นายจุลเดช วารินทร์	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๐๒๙
๓๐) นางสาวดายุรัตน์ ร้องคำ	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๐๓๐
๓๑) นายพรมมี ศรีปัดเนตร	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๐๓๑
๓๒) นายอุทิศ อุ่นสิม	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๐๓๒
๓๓) ว่าที่ร้อยตรี เฉลิมเกียรติ อมรศรีเสริม	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๐๓๓
๓๔) นางสาววริยา สร้างนา	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๐๓๔
๓๕) นายอนุพงศ์ รัตนศรีประเสริฐ	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๐๓๕

๓๖) นางสาวจุฑารัตน์...

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๓๖) นางสาวจุฑารัตน์ โอนสันเทียะ	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๐๓๖
๓๗) นางสาวจารุวรรณ พิมพ์อภิกฤติยา	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๐๓๗
๓๘) นางสาวปรางค์ทิพย์ กิจไพศาลศักดิ์	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๐๓๘
๓๙) นางสาวเตือนใจ ทางกลาง	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๐๓๙
๔๐) นางสาวจิราพร ศิริเวช	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๐๔๐
๔๑) นายวรากร ผูกรักษ์	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๐๔๑
๔๒) นายทนง วีริยะสหกิจ	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๐๔๒
๔๓) นายธนิต เจนจบ	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๐๔๓
๔๔) นายคณิศร ชำเพชร	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๐๔๔
๔๕) นายภูวิช พรหมสะอาด	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๐๔๕
๔๖) นายธนเดช โภคาพิพัฒน์	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๐๔๖
๔๗) นายชวฤทธิ์ วงษ์จันทร์	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๐๔๗
๔๘) นายอาทิตย์ ศรีเสน	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๐๔๘
๔๙) นายเจษฎินทร์ คงศักดิ์ไทย	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๐๔๙
๕๐) นายจรัส บุญยิ่ง	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๐๕๐
๕๑) นายธนาณัติ เอนก	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๐๕๑
๕๒) นายอภิวัฒน์ หุมหนู	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๐๕๒
๕๓) นางสาวสุภาขวัญ มาก	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๐๕๓
๕๔) นางสาวทัดพร ชวาลสมบูรณ์	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๐๕๔
๕๕) นางสาวธิติมา บุญเพ็ง	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๐๕๕
๕๖) นางสาวภานุมาศ นามวัฒน์	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๐๕๖
๕๗) นางสาวอุไรรัตน์ ทิงสร้างแป้น	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๐๕๗
๕๘) นายธีรวัฒน์ ปวงสุข	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๐๕๘
๕๙) นายอิทธิพล ยะโส	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๐๕๙
๖๐) นายประพจน์ วรรณชูชัย	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๐๖๐
๖๑) นายชยธร พวงทิพย์	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๐๖๑
๖๒) นางสาวกนกวรรณ จันทบาล	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๐๖๒
๖๓) นายสิทธิโชค ธงเงิน	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๐๖๓
๖๔) นางศิลาวรรณ ใจบุญ	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๐๖๔
๖๕) นางสาวพรรณธิดา หุ่มคง	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๐๖๕
๖๖) นายนวภัทร ศรีวิริยะ	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๐๖๖
๖๗) นายสุวิชา ทองอ่อน	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๐๖๗
๖๘) นายวิญญู บุญตะนัย	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๐๖๘
๖๙) นายสมบูรณ์ บุตรจันทร์	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๐๖๙
๗๐) นายวีรัตน์ ไชยนะรา	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๐๗๐
๗๑) นายนฤเบศน์ เพิ่มพูน	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๐๗๑
๗๒) นายจิรณัฐ ขาวละออ	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๐๗๒
๗๓) นายอัสรี นามบุรี	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๐๗๓
๗๔) นายอัศวเรศ จ่อสาว	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๐๗๔

๗๕) นายประเสริฐ...

๗๕) นายประเสริฐ สุระขันธ์	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๐๗๕
๗๖) นายนุกูล จันทร์เนียม	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๐๗๖
๗๗) นายพีรพงษ์ ทองคุณปรีดา	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๐๗๗
๗๘) นายนฤพล ทองนุช	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๐๗๘
๗๙) นายอนุวัฒน์ ม่วงแพร	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๐๗๙
๘๐) นายเจตศราวุฒิ ปัตตะมะ	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๐๘๐
๘๑) นายกฤษณะ สายวรรณ์	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๐๘๑
๘๒) นายพิชัย บุญยงค์	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๐๘๒
๘๓) นายภานุพงศ์ โยมวงศ์	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๐๘๓
๘๔) นายสามารถ คุ้มปลี	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๐๘๔
๘๕) นายสัญชัย โกศรีนาม	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๐๘๕
๘๖) นายณัฐวุฒิ ศรีประเสริฐ	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๐๘๖
๘๗) นายขวัลธัช นาคพนม	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๐๘๗
๘๘) นายพงศธร ชัยทิพย์	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๐๘๘
๘๙) นายสิทธิโชค ทาสีดา	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๐๘๙
๙๐) นายธนากร อินสุดา	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๐๙๐
๙๑) นางสาววรรณิชชา ชาติวันชัย	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๐๙๑
๙๒) นางสาวพิมพ์ตะวัน มินากูล	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๐๙๒
๙๓) นางสาวเพชรรัตน์ สิงห์สมบุญ	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๐๙๓
๙๔) นางสาวขญานิน พรหมจันทร์	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๐๙๔
๙๕) นายกีรติ ทวีราช	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๐๙๕
๙๖) นายจักริน หมั่นวิชา	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๐๙๖
๙๗) นายฉัตรชัย สุขเปีย	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๐๙๗
๙๘) นายณรนนท์ ติะทองคำ	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๐๙๘
๙๙) นายดุลยพล สนนอก	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๐๙๙
๑๐๐) นายทักษ์ดนัย อุบลศรี	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๑๐๐
๑๐๑) นายธนศวร นามะกุณฑา	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๑๐๑
๑๐๒) นายธิติพงศ์ บัวแดง	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๑๐๒
๑๐๓) นายนนทชัย อุปถัมภ์	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๑๐๓
๑๐๔) นายนัฐพล คุณสุทธิ์	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๑๐๔
๑๐๕) นายนันทวัฒน์ สาริน	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๑๐๕
๑๐๖) นายปิยะนัฐ พลมะศรี	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๑๐๖
๑๐๗) นายพงศ์สิริ โสมเขียว	ทะเบียนเลขที่ ว ๒๐๔ จ ๐๑๐๗
๑๐๘) นายพีรพัฒน์ กำคำ	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๑๐๘
๑๐๙) นายภาณุพงศ์ มานิตย์	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๑๐๙
๑๑๐) นายมงคล ผลาทิพย์	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๑๑๐
๑๑๑) นายสิรินนท์ ทองอั่น	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๑๑๑
๑๑๒) นายอเนชา ทันสมัย	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๑๑๒
๑๑๓) นายอติศักดิ์ ผมไผ	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๑๑๓

๑๑๔) นายอนันตชัย...

๑๑๔) นายอนันตชัย วีสม	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๑๑๔
๑๑๕) นายวรวุธ ดีนัก	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๑๑๕
๑๑๖) นายแสงตะวัน นะตะสัต	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๑๑๖
๑๑๗) นายยุทธพงศ์ รัตนะ	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๑๑๗
๑๑๘) นายชยัญวุฒิ ไชยยะนิจ	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๑๑๘
๑๑๙) นายวิศรุต ศรีธรรมมา	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๑๑๙
๑๒๐) นายนนทกร เผือกผ่อง	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๑๒๐
๑๒๑) นายกำชัย สุทธะ	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๑๒๑
๑๒๒) นางสาวณัฐภรณ์ บุญตะนัย	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๑๒๒
๑๒๓) นางสาวพัชรินทร์ แสนสร้อย	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๑๒๓
๑๒๔) นายไพรวัลย์ เปรี่ยมพิมาย	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๑๒๔
๑๒๕) นางสาวศุภมาศ ทองมาก	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๑๒๕
๑๒๖) นางสาวลลิดา จิตรสว่าง	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๑๒๖
๑๒๗) นางสาวชไมพร เลิกภู่เขียว	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๑๒๗
๑๒๘) นางสาวกฤติมาพร คำมีแก่น	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๑๒๘
๑๒๙) นางสาวสกุลรัตน์ ภาคภูมิ	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๑๒๙
๑๓๐) นางสาวไพรินทร์ ศรีรูปี	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๑๓๐
๑๓๑) นางสาวทิพเนตร ผุยปัญญา	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๑๓๑
๑๓๒) นางสาวสาธิตา ปานทอง	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๑๓๒
๑๓๓) นางสาวอริสา ทองนวล	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๑๓๓
๑๓๔) นางสาวอรยา ค้าคล่อง	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๑๓๔
๑๓๕) นางสาวชุดาภรณ์ สุนทรสนาน	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๑๓๕
๑๓๖) นางสาวอัญชลี คำจันทร์	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๑๓๖
๑๓๗) นายบุญฤทธิ์ เยี่ยมเทศ	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๑๓๗
๑๓๘) นางสาวศุภรดา ปั้นมยุรา	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๑๓๘
๑๓๙) นางสาวพาฤดี คุณนาน	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๑๓๙
๑๔๐) นางสาวจิราเจต พ่องตา	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๑๔๐
๑๔๑) นางสาวอารยา มีชัย	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๑๔๑
๑๔๒) นางสาววิชชุดา นาคผจญ	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๑๔๒
๑๔๓) นางสาวนันทิยา จันทะลุน	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๑๔๓
๑๔๔) นายกิตติพงศ์ แซ่ลี้	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๑๔๔
๑๔๕) นายอนุวัติ ภูถวิล	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๑๔๕
๑๔๖) นายธีรพล แสงทอง	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๑๔๖
๑๔๗) นายศักดิ์พิพัฒน์ บุญมั่น	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๑๔๗
๑๔๘) นายฐิติวัลค์ เอมอุไร	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๑๔๘
๑๔๙) นายชัยณรงค์ ศรีบุรินทร์	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๑๔๙
๑๕๐) นางสาวอัจฉราวรรณ สวนสนอง	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๑๕๐
๑๕๑) นางสาวณัฐฐาพร สิงหา	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๑๕๑
๑๕๒) นายภีมเรศ แหยมโต	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๑๕๒

๑๕๓) นางสาวอุบล...

๑๕๓) นางสาวอุบล เติกศิริ	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๑๕๓
๑๕๔) นางสาวมโนรัตน์ ทองบุตร	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๑๕๔
๑๕๕) นายภาคภูมิ แทนไทย	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๑๕๕
๑๕๖) นางสาวสุภาณัฐ เมล์พ่วง	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๑๕๖
๑๕๗) นางสาวพรทิวา สาตาขนม์	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๑๕๗
๑๕๘) นายเอกวิทย์ วันทะนา	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๑๕๘
๑๕๙) นายไตรมณฑล ทิพย์วรรณ	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๑๕๙
๑๖๐) นายจิรเมธ ประเสริฐสิริพงศ์	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๑๖๐
๑๖๑) นายจิรายุส เกษมสุข	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๑๖๑
๑๖๒) นายจีรศักดิ์ ศรีวิชัย	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๑๖๒
๑๖๓) นายณัฐกฤษณ์ สะพานแก้ว	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๑๖๓
๑๖๔) นายบูรณศักดิ์ ปะทิ	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๑๖๔
๑๖๕) นายปัณณวิชญ์ เสมอทรัพย์	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๑๖๕
๑๖๖) นายพิษณุพงษ์ ไชยา	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๑๖๖
๑๖๗) นายภัทรพงษ์ มณฑาทอง	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๑๖๗
๑๖๘) นายวสันต์ ตรีนกุล	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๑๖๘
๑๖๙) นายภาณุเดช เพชรอุด	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๑๖๙
๑๗๐) นายอนุกูล วิละแสง	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๑๗๐
๑๗๑) นายภัทรพงษ์ มีสุข	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๑๗๑
๑๗๒) นางสาวนุชรวี ถีละทีป	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๑๗๒
๑๗๓) นางสาวสุภาวดี โกศรีนาม	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๑๗๓
๑๗๔) นางสาวอรณิช เทียนดำ	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๑๗๔
๑๗๕) นางสาวพรเพ็ญ ขอบสอน	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๑๗๕
๑๗๖) นางสาววันวิสา ขอนพิกุล	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๑๗๖
๑๗๗) นางสาวอรวรรณ เถาว์ทอง	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๑๗๗
๑๗๘) นางสาวอัยย์ลิณ เมอร์วิณณ์	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๑๗๘
๑๗๙) นางสาววิศรา หุ่ยหวยง	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๑๗๙
๑๘๐) นายวุฒิกร ศิริวรรณ	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๑๘๐
๑๘๑) นางสาวจารุวรรณ กระจ่างพันธุ์	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๑๘๑

สิ่งที่ส่งมาด้วย ๓

เอกสารแนบท้ายหนังสือรับต่ออายุขึ้นทะเบียนห้องปฏิบัติการวิเคราะห์เอกชน
บริษัท เอแอลเอส แลบอราทอรี กรุ๊ป (ประเทศไทย) จำกัด เลขทะเบียน ว-๒๐๔
ที่ อก ๐๓๑๐(๑)/ ๑๖๑๖๘ ลงวันที่ ๒๐ พฤศจิกายน ๒๕๖๖

ค. ขอบข่ายสารมลพิษที่ได้รับขึ้นทะเบียนจากกรมโรงงานอุตสาหกรรม จำนวน ๑๗๔ รายการ

น้ำเสีย จำนวน 60 รายการ

ลำดับที่	สารมลพิษ	วิธีวิเคราะห์
1	Aldicarb	High-Performance Liquid Chromatographic Method[4]
2	Aldicarb Sulfone	High-Performance Liquid Chromatographic Method[4]
3	Aldicarb Sulfoxide	High-Performance Liquid Chromatographic Method[4]
4	Aldrin	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method[4]
5	Arsenic	1) Digestion, Inductively Coupled Plasma Method[4] 2) Digestion, Inductively Coupled Plasma/ Mass Spectrometric Method[4]
6	Barium	1) Digestion, Inductively Coupled Plasma Method[4] 2) Digestion, Inductively Coupled Plasma/ Mass Spectrometric Method[4]
7	α-BHC	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method[4]
8	β-BHC	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method[4]
9	δ-BHC	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method[4]
10	γ-BHC	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method[4]
11	Biochemical Oxygen Demand	1) 5-Day BOD Test, Azide Modification Method[4] 2) 5-Day BOD Test, Membrane Electrode Method[4]
12	Carbaryl	High-Performance Liquid Chromatographic Method[4]
13	Carbofuran	High-Performance Liquid Chromatographic Method[4]
14	Cadmium	1) Digestion, Inductively Coupled Plasma Method[4] 2) Digestion, Inductively Coupled Plasma/ Mass Spectrometric Method[4]
15	Chemical Oxygen Demand	1) Closed Reflux, Colorimetric Method[4] 2) Closed Reflux, Tritimetric Method[4]
16	Chlordane	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method[4]
17	Chromium	1) Digestion, Inductively Coupled Plasma Method[4] 2) Digestion, Inductively Coupled Plasma/ Mass Spectrometric Method[4]
18	Color	ADMI Weighted-Ordinate Spectrophotometric Method[4]

19 Copper...

ลำดับที่	สารมลพิษ	วิธีวิเคราะห์
19	Copper	1) Digestion, Inductively Coupled Plasma Method[4] 2) Digestion, Inductively Coupled Plasma/ Mass Spectrometric Method[4]
20	Cyanide	Distillation, Colorimetric Method[4]
21	2,4´-DDD	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method[4]
22	4,4´-DDD	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method[4]
23	2,4´-DDE	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method[4]
24	4,4´-DDE	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method[4]
25	2,4´-DDT	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method[4]
26	4,4´-DDT	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method[4]
27	Dieldrin	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method[4]
28	Endosulfan Sulfate	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method[4]
29	Endosulfan I	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method[4]
30	Endosulfan II	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method[4]
31	Endrin	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method[4]
32	Endrin Aldehyde	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method[4]
33	Formaldehyde	Distillation, Colorimetric Method[5]
34	Free Chlorine	1) DPD Ferrous Titrimetric Method[4] 2) DPD Colorimetric Method[4]
35	Heptachlor	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method[4]
36	Heptachlor Epoxide	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method[4]
37	Hexavalent Chromium	Colorimetric Method[4]
38	3-Hydroxycarbofuran	High-Performance Liquid Chromatographic Method[4]
39	Lead	1) Digestion, Inductively Coupled Plasma Method[4] 2) Digestion, Inductively Coupled Plasma/ Mass Spectrometric Method[4]

40 Manganese...

ลำดับที่	สารมลพิษ	วิธีวิเคราะห์
40	Manganese	1) Digestion, Inductively Coupled Plasma Method[4] 2) Digestion, Inductively Coupled Plasma/ Mass Spectrometric Method[4]
41	Mercury	1) Digestion, Cold-Vapor Atomic Absorption Spectrometric Method[4] 2) Digestion, Inductively Coupled Plasma/ Mass spectrometric Method[4]
42	Methiocarb	High-Performance Liquid Chromatographic Method[4]
43	Methoxychlor	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method[4]
44	Methomyl	High-Performance Liquid Chromatographic Method[4]
45	Nickel	1) Digestion, Inductively Coupled Plasma Method[4] 2) Digestion, Inductively Coupled Plasma/ Mass Spectrometric Method[4]
46	Oil & Grease	1) Liquid-Liquid, Partition-Gravimetric Method[4] 2) Soxhlet Extraction Method[4]
47	Oxamyl	High-Performance Liquid Chromatographic Method[4]
48	Propoxur	High-Performance Liquid Chromatographic Method[4]
49	pH	Electrometric Method[4]
50	Phenols	1) Distillation, Chloroform Extraction Method[4] 2) Distillation, Direct Photometric Method[4]
51	Selenium	1) Digestion, Inductively Coupled Plasma Method[4] 2) Digestion, Inductively Coupled Plasma/ Mass Spectrometric Method[4]
52	Sulfide	Iodometric Method[4]
53	Temperature	Laboratory and Field Methods[4]
54	Total Dissolved Solids	Dried at 180 °C[4]
55	Total Kjeldahl Nitrogen	Semi-Micro Kjeldahl Method[4]
56	Total Phosphorous	Digestion, Colorimetric Method[4]
57	Total Suspended Solids	Dried from 103-105 °C[4]
58	Toxaphene	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method[4]
59	Trivalent Chromium	1) Digestion, Inductively Coupled Plasma Method; Colorimetric Method; Calculation[4] 2) Digestion, Inductively Coupled Plasma/ Mass Spectrometric Method; Colorimetric Method; Calculation[4]
60	Zinc	1) Digestion, Inductively Coupled Plasma Method[4] 2) Digestion, Inductively Coupled Plasma/Mass Spectrometric Method[4]

น้ำใต้ดิน...

น้ำใต้ดิน จำนวน 126 รายการ

ลำดับที่	สารมลพิษ	วิธีวิเคราะห์
1	Acenaphthene	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method[4]
2	Acetone	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method[4]
3	Aldrin	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method[4]
4	Anthracene	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method[4]
5	Antimony	1) Digestion, Inductively Coupled Plasma Method[4] 2) Digestion, Inductively Coupled Plasma/ Mass Spectrometric Method[4]
6	Arsenic	1) Digestion, Inductively Coupled Plasma Method[4] 2) Digestion, Inductively Coupled Plasma/ Mass Spectrometric Method[4]
7	Atrazine	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method[4]
8	Barium	1) Digestion, Inductively Coupled Plasma Method[4] 2) Digestion, Inductively Coupled Plasma/ Mass Spectrometric Method[4]
9	Benz(a)anthracene	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method[4]
10	Benzene	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method[4]
11	Benzo(b)fluoranthene	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method[4]
12	Benzo(k)fluoranthene	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method[4]
13	Benzoic Acid	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method[4]
14	Benzo(a)pyrene	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method[4]
15	Benzo(g,h,i)perylene	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method[4]
16	Beryllium	1) Digestion, Inductively Coupled Plasma Method[4] 2) Digestion, Inductively Coupled Plasma/ Mass Spectrometric Method[4]
17	Bis(2-chloroethyl)ether	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method[4]

18 Bis(2-ethylhexyl)phthalate...

ลำดับที่	สารมลพิษ	วิธีวิเคราะห์
18	Bis(2-ethylhexyl)phthalate	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method[4]
19	Bromodichloromethane	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method[4]
20	Bromoform	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method[4]
21	Butanol	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method[4]
22	Butyl benzyl phthalate	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method[4]
23	Cadmium	1) Digestion, Inductively Coupled Plasma Method[4] 2) Digestion, Inductively Coupled Plasma/ Mass Spectrometric Method[4]
24	Carbazole	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method[4]
25	Carbon disulfide	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method[4]
26	Carbon tetrachloride	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method[4]
27	Chlordane	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method[4]
28	p-Chloroaniline	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method[4]
29	Chlorobenzene	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method[4]
30	Chlorodibromomethane	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method[4]
31	Chloroform	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method[4]
32	2-Chlorophenol	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method[4]
33	Chromium	1) Digestion, Inductively Coupled Plasma Method[4] 2) Digestion, Inductively Coupled Plasma/ Mass Spectrometric Method[4]
34	Chromium (III)	1) Digestion, Inductively Coupled Plasma Method; Colorimetric Method; Calculation[4] 2) Digestion, Inductively Coupled Plasma/ Mass Spectrometric Method; Colorimetric Method; Calculation[4]
35	Chromium (VI)	Colorimetric Method[4]

36 Chrysene...

ลำดับที่	สารมลพิษ	วิธีวิเคราะห์
36	Chrysene	Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method[4]
37	Cyanide	Distillation, Colorimetric Method[4]
38	2,4-D	Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method[4]
39	DDD	Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method[4]
40	DDE	Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method[4]
41	DDT	Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method[4]
42	Dibenz(a,h)anthracene	Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method[4]
43	Di-n-Butyl Phthalate	Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method[4]
44	1,2-Dichlorobenzene	Purge and Trap, Gas Chromatographic/Mass Spectrometric Method[4]
45	1,3-Dichlorobenzene	Purge and Trap, Gas Chromatographic/Mass Spectrometric Method[4]
46	1,4-Dichlorobenzene	Purge and Trap, Gas Chromatographic/Mass Spectrometric Method[4]
47	3,3-Dichlorobenzidine	Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method[4]
48	1,1-Dichloroethane	Purge and Trap, Gas Chromatographic/Mass Spectrometric Method[4]
49	1,2-Dichloroethane	Purge and Trap, Gas Chromatographic/Mass Spectrometric Method[4]
50	1,1-Dichloroethylene	Purge and Trap, Gas Chromatographic/Mass Spectrometric Method[4]
51	cis-1,2-Dichloroethylene	Purge and Trap, Gas Chromatographic/Mass Spectrometric Method[4]
52	trans-1,2-Dichloroethylene	Purge and Trap, Gas Chromatographic/Mass Spectrometric Method[4]
53	2,4-Dichlorophenol	Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method[4]
54	1,2-Dichloropropane	Purge and Trap, Gas Chromatographic/Mass Spectrometric Method[4]
55	1,3-Dichloropropane	Purge and Trap, Gas Chromatographic/Mass Spectrometric Method[4]

56 1,3-Dichloropropene...

ลำดับที่	สารมลพิษ	วิธีวิเคราะห์
56	1,3-Dichloropropene	Purge and Trap, Gas Chromatographic/Mass Spectrometric Method[4]
57	Dieldrin	Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method[4]
58	Diethyl Phthalate	Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method[4]
59	2,4-Dimethylphenol	Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method[4]
60	2,4-Dinitrophenol	Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method[4]
61	2,4-Dinitrotoluene	Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method[4]
62	2,6-Dinitrotoluene	Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method[4]
63	Di-n-octyl phthalate	Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method[4]
64	Endosulfan	Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method[4]
65	Endrin	Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method[4]
66	Ethylbenzene	Purge and Trap, Gas Chromatographic/Mass Spectrometric Method[4]
67	Fluoranthene	Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method[4]
68	Fluorene	Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method[4]
69	Heptachlor	Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method[4]
70	Heptachlor epoxide	Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method[4]
71	Hexachlorobenzene	Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method[4]
72	Hexachloro-1,3-butadiene	Purge and Trap, Gas Chromatographic/Mass Spectrometric Method[4]
73	n-Hexane	Purge and Trap, Gas Chromatographic/Mass Spectrometric Method[4]
74	α-HCH	Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method[4]
75	β-HCH	Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method[4]

76 γ-HCH...

ลำดับที่	สารมลพิษ	วิธีวิเคราะห์
76	γ-HCH	Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method[4]
77	Hexachlorocyclopentadiene	Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method[4]
78	Hexachloroethane	Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method[4]
79	Indeno(1,2,3-cd)pyrene	Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method[4]
80	Isophorone	Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method[4]
81	Lead	1) Digestion, Inductively Coupled Plasma Method[4] 2) Digestion, Inductively Coupled Plasma/Mass Spectrometric Method[4]
82	Manganese	1) Digestion, Inductively Coupled Plasma Method[4] 2) Digestion, Inductively Coupled Plasma/Mass Spectrometric Method[4]
83	Mercury	1) Digestion, Cold Vapor Atomic Absorption Spectrometric Method[4] 2) Digestion, Inductively Coupled Plasma/Mass Spectrometric Method[4]
84	Methanol	Purge and Trap, Gas Chromatographic/Mass Spectrometric Method[4]
85	Methoxychlor	Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method[4]
86	Methyl bromide	Purge and Trap, Gas Chromatographic/Mass Spectrometric Method[4]
87	Methylene chloride	Purge and Trap, Gas Chromatographic/Mass Spectrometric Method[4]
88	2-Methylphenol	Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method[4]
89	2-Methylnapthalene	Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method[4]
90	Methyl tert-butyl Ether	Purge and Trap, Gas Chromatographic/Mass Spectrometric Method[4]
91	Naphthalene	Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method[4]
92	Nickel	1) Digestion, Inductively Coupled Plasma Method[4] 2) Digestion, Inductively Coupled Plasma/Mass Spectrometric Method[4]
93	Nitrobenzene	Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method[4]

94 N-Nitrosodiphenylamine...

ลำดับที่	สารมลพิษ	วิธีวิเคราะห์
94	N-Nitrosodiphenylamine	Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method[4]
95	N-Nitrosodi-n-Propylamine	Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method[4]
96	Polychlorinated Biphenyls - PCB 1016 - PCB 1221 - PCB 1232 - PCB 1242 - PCB 1248 - PCB 1254 - PCB 1260	Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method[4]
97	Pentachlorophenol	Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method[4]
98	pH	Electrometric Method[7]
99	Phenanthrene	Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method[4]
100	Phenol	1) Distillation, Chloroform Extraction Method[4] 2) Distillation, Direct Photometric Method[4] 3) Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method[4]
101	Pyrene	Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method[4]
102	Selenium	1) Digestion, Inductively Coupled Plasma Method[4] 2) Digestion, Inductively Coupled Plasma/Mass Spectrometric Method[4]
103	Silver	1) Digestion, Inductively Coupled Plasma Method[4] 2) Digestion, Inductively Coupled Plasma/Mass Spectrometric Method[4]
104	Styrene	Purge and Trap, Gas Chromatographic/Mass Spectrometric Method[4]
105	1,1,2,2-Tetrachloroethane	Purge and Trap, Gas Chromatographic/Mass Spectrometric Method[4]
106	Tetrachloroethylene	Purge and Trap, Gas Chromatographic/Mass Spectrometric Method[4]
107	Toluene	Purge and Trap, Gas Chromatographic/Mass Spectrometric Method[4]
108	Toxaphene	Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method[4]
109	TPH (C_5-C_8)	Purge and Trap, Gas Chromatographic/Mass Spectrometric Method[14,25]

110 TPH ($C_{>8}$-C_{16})...

ลำดับที่	สารมลพิษ	วิธีวิเคราะห์
110	TPH ($C_{\geq 6}$-C_{16})	Separatory Funnel Liquid-Liquid Extraction, Gas Chromatographic Method[9,22]
111	TPH ($C_{>16}$-C_{35})	Separatory Funnel Liquid-Liquid Extraction, Gas Chromatographic Method[9,22]
112	1,2,4-Trichlorobenzene	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method[4]
113	1,1,1-Trichloroethane	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method[4]
114	1,1,2-Trichloroethane	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method[4]
115	Trichloroethylene	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method[4]
116	2,4,5-Trichlorophenol	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method[4]
117	2,4,6-Trichlorophenol	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method[4]
118	1,3,5-Trimethylbenzene	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method[4]
119	Vanadium	1) Digestion, Inductively Coupled Plasma Method[4] 2) Digestion, Inductively Coupled Plasma/ Mass Spectrometric Method[4]
120	Vinyl acetate	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method[4]
121	Vinyl chloride	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method[4]
122	m-Xylene	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method[4]
123	o-Xylene	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method[4]
124	p-Xylene	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method[4]
125	Xylene (Total)	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method[4]
126	Zinc	1) Digestion, Inductively Coupled Plasma Method[4] 2) Digestion, Inductively Coupled Plasma/ Mass Spectrometric Method[4]

อากาศเสีย...

อากาศเสีย (ปล่องระบาย) จำนวน 28 รายการ

ลำดับที่	สารมลพิษ	วิธีวิเคราะห์
1	Antimony	1) Isokinetic Sampling, Digestion, Inductively Coupled Plasma Method[5] 2) Isokinetic Sampling, Digestion, Inductively Coupled Plasma/Mass Spectrometric Method[5]
2	Arsenic	1) Isokinetic Sampling, Digestion, Inductively Coupled Plasma Method[5] 2) Isokinetic Sampling, Digestion, Inductively Coupled Plasma/Mass Spectrometric Method[5]
3	Beryllium	1) Isokinetic Sampling, Digestion, Inductively Coupled Plasma Method[5] 2) Isokinetic Sampling, Digestion, Inductively Coupled Plasma/Mass Spectrometric Method[5]
4	Cadmium	1) Isokinetic Sampling, Digestion, Inductively Coupled Plasma Method[5] 2) Isokinetic Sampling, Digestion, Inductively Coupled Plasma/Mass Spectrometric Method[5]
5	Carbon Monoxide	1) Instrumental Analyzer Method[5] 2) Sampling Bag Non-Dispersive Infrared Method[5]
6	Chlorine	1) Absorption Sampling, Ion Chromatographic Method[5] 2) Isokinetic Sampling, Ion Chromatographic Method [5]
7	Chromium	1) Isokinetic Sampling, Digestion, Inductively Coupled Plasma Method[5] 2) Isokinetic Sampling, Digestion, Inductively Coupled Plasma/Mass Spectrometric Method[5]
8	Cobalt	1) Isokinetic Sampling, Digestion, Inductively Coupled Plasma Method[5] 2) Isokinetic Sampling, Digestion, Inductively Coupled Plasma/Mass Spectrometric Method[5]
9	Copper	1) Isokinetic Sampling, Digestion, Inductively Coupled Plasma Method[5] 2) Isokinetic Sampling, Digestion, Inductively Coupled Plasma/Mass Spectrometric Method[5]
10	Cresol	Adsorption Sampling, Gas Chromatographic Method[5]
11	Dioxins	Isokinetic Sampling[5]
12	Hydrogen Chloride	1) Absorption Sampling, Ion Chromatographic Method[5] 2) Isokinetic Sampling, Ion Chromatographic Method[5]
13	Hydrogen Fluoride	1) Absorption Sampling, Ion Chromatographic Method[5] 2) Isokinetic Sampling, Ion Chromatographic Method[5]
14	Hydrogen Sulfide	Absorption Sampling, Iodometric Method[5]

15 Lead...

ลำดับที่	สารมลพิษ	วิธีวิเคราะห์
15	Lead	1) Isokinetic Sampling, Digestion, Inductively Coupled Plasma Method[5] 2) Isokinetic Sampling, Digestion, Inductively Coupled Plasma/Mass Spectrometric Method[5]
16	Manganese	1) Isokinetic Sampling, Digestion, Inductively Coupled Plasma Method[5] 2) Isokinetic Sampling, Digestion, Inductively Coupled Plasma/Mass Spectrometric Method[5]
17	Mercury	1) Isokinetic Sampling, Digestion, Cold-Vapor Atomic Absorption Spectrometric Method[5] 2) Isokinetic Sampling, Digestion, Cold-Vapor Atomic Fluorescence Spectrometric Method[5]
18	Nickel	1) Isokinetic Sampling, Digestion, Inductively Coupled Plasma Method[5] 2) Isokinetic Sampling, Digestion, Inductively Coupled Plasma/Mass Spectrometric Method[5]
19	Opacity	Ringelmann's Method[2]
20	Oxides of Nitrogen	1) Absorption Sampling, Phenoldisulfonic Acid Method[5] 2) Absorption Sampling, Alkaline Permanganate/ Colorimetric Method[5] 3) Instrumental Analyzer Method[5]
21	Selenium	1) Isokinetic Sampling, Digestion, Inductively Coupled Plasma Method[5] 2) Isokinetic Sampling, Digestion, Inductively Coupled Plasma/Mass Spectrometric Method[5]
22	Sulfur Dioxide	1) Absorption Sampling, Barium-Thorin Titrimetric Method[5] 2) Instrumental Analyzer Method[5]
23	Sulfuric Acid	Isokinetic Sampling, Barium-Thorin Titrimetric Method[5]
24	Tellurium	1) Isokinetic Sampling, Digestion, Inductively Coupled Plasma Method[5] 2) Isokinetic Sampling, Digestion, Inductively Coupled Plasma/Mass Spectrometric Method[5]
25	Tin	1) Isokinetic Sampling, Digestion, Inductively Coupled Plasma Method[5] 2) Isokinetic Sampling, Digestion, Inductively Coupled Plasma/Mass Spectrometric Method[5]
26	Total Suspended Particulate	1) Isokinetic Sampling, Gravimetric Method[5] 2) Paired Train, Isokinetic Sampling, Gravimetric Method[5]

27 Vanadium...

ลำดับที่	สารมลพิษ	วิธีวิเคราะห์
27	Vanadium	1) Isokinetic Sampling, Digestion, Inductively Coupled Plasma Method[5] 2) Isokinetic Sampling, Digestion, Inductively Coupled Plasma/Mass Spectrometric Method[5]
28	Xylene	Adsorption Sampling, Gas Chromatographic Method[5]

สิ่งปฏิกูลหรือวัสดุที่ไม่ใช้แล้ว จำนวน 35 รายการ

ลำดับที่	สารมลพิษ	วิธีวิเคราะห์
1	Aldrin	1) Waste Extraction, Separatory Funnel Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method[1,9,26] 2) Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method[10,26] 3) Automated Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method[11,26]
2	Antimony	1) Waste Extraction, Digestion, Inductively Coupled Plasma Method[1,6,16] 2) Waste Extraction, Digestion, Inductively Coupled Plasma/Mass Spectrometric Method[1,6,17] 3) Digestion, Inductively Coupled Plasma Method[7,16] 4) Digestion, Inductively Coupled Plasma/ Mass Spectrometric Method[7,17]
3	Arsenic	1) Waste Extraction, Digestion, Inductively Coupled Plasma Method[1,6,16] 2) Waste Extraction, Digestion, Inductively Coupled Plasma/Mass Spectrometric Method[1,6,17] 3) Digestion, Inductively Coupled Plasma Method[7,16] 4) Digestion, Inductively Coupled Plasma/ Mass Spectrometric Method[7,17]
4	Barium	1) Waste Extraction, Digestion, Inductively Coupled Plasma Method[1,6,16] 2) Waste Extraction, Digestion, Inductively Coupled Plasma/Mass Spectrometric Method[1,6,17] 3) Digestion, Inductively Coupled Plasma Method[7,16] 4) Digestion, Inductively Coupled Plasma/ Mass Spectrometric Method[7,17]

5 Beryllium...

ลำดับที่	สารมลพิษ	วิธีวิเคราะห์
5	Beryllium	1) Waste Extraction, Digestion, Inductively Coupled Plasma Method[1,6,16] 2) Waste Extraction, Digestion, Inductively Coupled Plasma/Mass Spectrometric Method[1,6,17] 3) Digestion, Inductively Coupled Plasma Method[7,16] 4) Digestion, Inductively Coupled Plasma/ Mass Spectrometric Method[7,17]
6	Cadmium	1) Waste Extraction, Digestion, Inductively Coupled Plasma Method[1,6,16] 2) Waste Extraction, Digestion, Inductively Coupled Plasma/Mass Spectrometric Method[1,6,17] 3) Digestion, Inductively Coupled Plasma Method[7,16] 4) Digestion, Inductively Coupled Plasma/ Mass Spectrometric Method[7,17]
7	Chlordane	1) Waste Extraction, Separatory Funnel Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method[1,9,26] 2) Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method[10,26] 3) Automated Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method[11,26]
8	Chromium	1) Waste Extraction, Digestion, Inductively Coupled Plasma Method[1,6,16] 2) Waste Extraction, Digestion, Inductively Coupled Plasma/Mass Spectrometric Method[1,6,17] 3) Digestion, Inductively Coupled Plasma Method[7,16] 4) Digestion, Inductively Coupled Plasma/ Mass Spectrometric Method[7,17]
9	Chromium (III)	1) Waste Extraction, Digestion, Inductively Coupled Plasma Method; Waste Extraction, Colorimetric Method; Calculation Method[1,6,16,19] 2) Waste Extraction, Digestion, Inductively Coupled Plasma/Mass Spectrometric Method; Waste Extraction, Colorimetric Method; Calculation Method[1,6,17,19] 3) Digestion, Inductively Coupled Plasma Method; Alkaline Digestion, Colorimetric Method; Calculation Method[7,8,16,19] 4) Digestion, Inductively Coupled Plasma/ Mass Spectrometric Method; Alkaline Digestion, Colorimetric Method; Calculation Method[7,8, 17,19]

10 Chromium (VI)...

ลำดับที่	สารมลพิษ	วิธีวิเคราะห์
10	Chromium (VI)	1) Waste Extraction, Colorimetric Method[1,6,19] 2) Alkaline Digestion, Colorimetric Method[8,19]
11	Cobalt	1) Waste Extraction, Digestion, Inductively Coupled Plasma Method[1,6,16] 2) Waste Extraction, Digestion, Inductively Coupled Plasma/Mass Spectrometric Method[1,6,17] 3) Digestion, Inductively Coupled Plasma Method[7,16] 4) Digestion, Inductively Coupled Plasma/ Mass Spectrometric Method[7,17]
12	Copper	1) Waste Extraction, Digestion, Inductively Coupled Plasma Method[1,6,16] 2) Waste Extraction, Digestion, Inductively Coupled Plasma/Mass Spectrometric Method[1,6,17] 3) Digestion, Inductively Coupled Plasma Method[7,16] 4) Digestion, Inductively Coupled Plasma/ Mass Spectrometric Method[7,17]
13	2,4-D	1) Waste Extraction, Separatory Funnel Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method[1,9,26] 2) Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method[10,26] 3) Automated Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method[11,26]
14	DDD	1) Waste Extraction, Separatory Funnel Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method[1,9,26] 2) Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method[10,26] 3) Automated Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method[11,26]
15	DDE	1) Waste Extraction, Separatory Funnel Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method[1,9,26] 2) Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method[10,26] 3) Automated Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method[11,26]
16	DDT	1) Waste Extraction, Separatory Funnel Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method[1,9,26]

2) Soxhlet...

ลำดับที่	สารมลพิษ	วิธีวิเคราะห์
		2) Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method[10,26] 3) Automated Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method[11,26]
17	Dieldrin	1) Waste Extraction, Separatory Funnel Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method[1,9,26] 2) Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method[10,26] 3) Automated Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method[11,26]
18	Endrin	1) Waste Extraction, Separatory Funnel Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method[1,9,26] 2) Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method[10,26] 3) Automated Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method[11,26]
19	Heptachlor	1) Waste Extraction, Separatory Funnel Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method[1,9,26] 2) Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method[10,26] 3) Automated Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method[11,26]
20	Lead	1) Waste Extraction, Digestion, Inductively Coupled Plasma Method[1,6,16] 2) Waste Extraction, Digestion, Inductively Coupled Plasma/Mass Spectrometric Method[1,6,17] 3) Digestion, Inductively Coupled Plasma Method[7,16] 4) Digestion, Inductively Coupled Plasma/ Mass Spectrometric Method[7,17]
21	Lindane	1) Waste Extraction, Separatory Funnel Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method[1,9,26] 2) Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method[10,26] 3) Automated Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method[11,26]

22 Mercury...

ลำดับที่	สารมลพิษ	วิธีวิเคราะห์
22	Mercury	1) Waste Extraction, Digestion, Cold-Vapor Atomic Absorption Spectrometric Method[1,6,20] 2) Waste Extraction, Digestion, Cold-Vapor Atomic Fluorescence Spectrometric Method[1,6,30] 3) Digestion, Cold-Vapor Atomic Absorption Spectrometric Method[20] 4) Digestion, Cold-Vapor Atomic Fluorescence Spectrometric Method[30] 5) Thermal Decomposition Amalgamation and Atomic Absorption Spectrometric Method[21]
23	Methoxychlor	1) Waste Extraction, Separatory Funnel Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method[1,9,26] 2) Soxhlet Extraction, Gas Chromatographic / Mass Spectrometric Method[10,26] 3) Automated Soxhlet Extraction, Gas Chromatographic /Mass Spectrometric Method[11,36]
24	Mirex	1) Waste Extraction, Separatory Funnel Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method[1,9,26] 2) Soxhlet Extraction, Gas Chromatographic / Mass Spectrometric Method[10,26] 3) Automated Soxhlet Extraction, Gas Chromatographic /Mass Spectrometric Method[11,26]
25	Molybdenum	1) Waste Extraction, Digestion, Inductively Coupled Plasma Method[1,6,16] 2) Waste Extraction, Digestion, Inductively Coupled Plasma/Mass Spectrometric Method[1,6,17] 3) Digestion, Inductively Coupled Plasma Method[7,16] 4) Digestion, Inductively Coupled Plasma/ Mass Spectrometric Method[7,17]
26	Nickel	1) Waste Extraction, Digestion, Inductively Coupled Plasma Method[1,6,16] 2) Waste Extraction, Digestion, Inductively Coupled Plasma/Mass Spectrometric Method[1,6,17] 3) Digestion, Inductively Coupled Plasma Method[7,16] 4) Digestion, Inductively Coupled Plasma/ Mass Spectrometric Method[7,17]
27	Polychlorinated biphenyls (PCBs) - Aroclor 1016 - Aroclor 1221 - Aroclor 1232 - Aroclor 1242 - Aroclor 1248 - Aroclor 1254 - Aroclor 1260	1) Waste Extraction, Separatory Funnel Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method[1,9,26] 2) Soxhlet Extraction, Gas Chromatographic Method[10,26] 3) Automated Soxhlet Extraction, Gas Chromatographic Method[11,26]

- 2-Chlorobiphenyl...

ลำดับที่	สารมลพิษ	วิธีวิเคราะห์
	- 2-Chlorobiphenyl - 2,3-Dichlorobiphenyl - 2,2',5-Trichlorobiphenyl - 2,4',5-Trichlorobiphenyl - 2,2',3,5'-Tetrachlorobiphenyl - 2,2',5,5'-Tetrachlorobiphenyl - 2,3',4,4'-Tetrachlorobiphenyl - 2,2',3,4,5'-Pentachlorobiphenyl - 2,2',4,5,5'-Pentachlorobiphenyl - 2,3,3',4',6-Pentachlorobiphenyl - 2,2',3,4,4',5'-Hexachlorobiphenyl - 2,2',3,4,5,5'-Hexachlorobiphenyl - 2,2',3,5,5',6-Hexachlorobiphenyl - 2,2',4,4',5,5'-Hexachlorobiphenyl - 2,2',3,3',4,4',5-Heptachlorobiphenyl - 2,2',3,4,4',5,5'-Heptachlorobiphenyl - 2,2',3,4,4',5',6-Heptachlorobiphenyl - 2,2',3,4',5,5',6-Heptachlorobiphenyl - 2,2',3,3',4,4',5,5',6-Nonachlorobiphenyl	
28	Pentachlorophenol	1) Waste Extraction, Separatory Funnel Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method[1,9,26] 2) Soxhlet Extraction, Gas Chromatographic/Mass Spectrometric Method[10,26] 3) Automated Soxhlet Extraction, Gas Chromatographic/Mass Spectrometric Method[11,26]
29	pH	Electrometric Method[23,24]
30	Selenium	1) Waste Extraction, Digestion, Inductively Coupled Plasma Method[1,6,16] 2) Waste Extraction, Digestion, Inductively Coupled Plasma/Mass Spectrometric Method[1,6,17] 3) Digestion, Inductively Coupled Plasma Method[7,16] 4) Digestion, Inductively Coupled Plasma/Mass Spectrometric Method[7,17]

31 Silver...

ลำดับที่	สารมลพิษ	วิธีวิเคราะห์
31	Silver	1) Waste Extraction, Digestion, Inductively Coupled Plasma Method[1,6,16] 2) Waste Extraction, Digestion, Inductively Coupled Plasma/Mass Spectrometric Method[1,6,17] 3) Digestion, Inductively Coupled Plasma Method[7,16] 4) Digestion, Inductively Coupled Plasma/Mass Spectrometric Method[7,17]
32	Thallium	1) Waste Extraction, Digestion, Inductively Coupled Plasma Method[1,6,16] 2) Waste Extraction, Digestion, Inductively Coupled Plasma/Mass Spectrometric Method[1,6,17] 3) Digestion, Inductively Coupled Plasma Method[7,16] 4) Digestion, Inductively Coupled Plasma/Mass Spectrometric Method[7,17]
33	Toxaphene	1) Waste Extraction, Separatory Funnel Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method[1,9,26] 2) Soxhlet Extraction, Gas Chromatographic/Mass Spectrometric Method[10,26] 3) Automated Soxhlet Extraction, Gas Chromatographic/Mass Spectrometric Method[11,26]
34	Vanadium	1) Waste Extraction, Digestion, Inductively Coupled Plasma Method[1,6,16] 2) Waste Extraction, Digestion, Inductively Coupled Plasma/Mass Spectrometric Method[1,6,17] 3) Digestion, Inductively Coupled Plasma Method[7,16] 4) Digestion, Inductively Coupled Plasma/Mass Spectrometric Method[7,17]
35	Zinc	1) Waste Extraction, Digestion, Inductively Coupled Plasma Method[1,6,16] 2) Waste Extraction, Digestion, Inductively Coupled Plasma/Mass Spectrometric Method[1,6,17] 3) Digestion, Inductively Coupled Plasma Method[7,16] 4) Digestion, Inductively Coupled Plasma/Mass Spectrometric Method[7,17]

ดิน...

ดิน จำนวน 125 รายการ

ลำดับที่	สารมลพิษ	วิธีวิเคราะห์
1	Acenaphthene	1) Soxhlet Extraction, Gas Chromatographic/Mass Spectrometric Method[10,26] 2) Automated Soxhlet Extraction, Gas Chromatographic/Mass Spectrometric Method[11,26]
2	Acetone	1)Purge and Trap, Gas Chromatographic/Mass Spectrometric Method[15,25] 2) Equilibrium Headspace, Gas Chromatographic/Mass Spectrometric Method[13]
3	Aldrin	1) Soxhlet Extraction, Gas Chromatographic/Mass Spectrometric Method[10,26] 2) Automated Soxhlet Extraction, Gas Chromatographic/Mass Spectrometric Method[11,26]
4	Anthracene	1) Soxhlet Extraction, Gas Chromatographic/Mass Spectrometric Method[10,26] 2) Automated Soxhlet Extraction, Gas Chromatographic/Mass Spectrometric Method[11,26]
5	Antimony	1) Digestion, Inductively Coupled Plasma Method[7,16] 2) Digestion, Inductively Coupled Plasma/Mass Spectrometric Method[7,17]
6	Arsenic	1) Digestion, Inductively Coupled Plasma Method[7,16] 2) Digestion, Inductively Coupled Plasma/Mass Spectrometric Method[7,17]
7	Atrazine	1) Soxhlet Extraction, Gas Chromatographic/Mass Spectrometric Method[10,26] 2) Automated Soxhlet Extraction, Gas Chromatographic/Mass Spectrometric Method[11,26]
8	Barium	1) Digestion, Inductively Coupled Plasma Method[7,16] 2) Digestion, Inductively Coupled Plasma/Mass Spectrometric Method[7,17]
9	Benz(a)anthracene	1) Soxhlet Extraction, Gas Chromatographic/Mass Spectrometric Method[10,26] 2) Automated Soxhlet Extraction, Gas Chromatographic/Mass Spectrometric Method[11,26]
10	Benzene	Purge and Trap, Gas Chromatographic/Mass Spectrometric Method[15,25]

11 Benzo(b)fluoranthene

ลำดับที่	สารมลพิษ	วิธีวิเคราะห์
11	Benzo(b)fluoranthene	1) Soxhlet Extraction, Gas Chromatographic/Mass Spectrometric Method[10,26] 2) Automated Soxhlet Extraction, Gas Chromatographic/Mass Spectrometric Method[11,26]
12	Benzo(k)fluoranthene	1) Soxhlet Extraction, Gas Chromatographic/Mass Spectrometric Method[10,26] 2) Automated Soxhlet Extraction, Gas Chromatographic/Mass Spectrometric Method[11,26]
13	Benzoic acid	1) Soxhlet Extraction, Gas Chromatographic/Mass Spectrometric Method[10,26] 2) Automated Soxhlet Extraction, Gas Chromatographic/Mass Spectrometric Method[11,26]
14	Benzo(a)pyrene	1) Soxhlet Extraction, Gas Chromatographic/Mass Spectrometric Method[10,26] 2) Automated Soxhlet Extraction, Gas Chromatographic/Mass Spectrometric Method[11,26]
15	Benzo(g,h,i)perylene	1) Soxhlet Extraction, Gas Chromatographic/Mass Spectrometric Method[10,26] 2) Automated Soxhlet Extraction, Gas Chromatographic/Mass Spectrometric Method[11,26]
16	Beryllium	1) Digestion, Inductively Coupled Plasma Method[7,16] 2) Digestion, Inductively Coupled Plasma/Mass Spectrometric Method[7,17]
17	Bis(2-chloroethyl)ether	1) Soxhlet Extraction, Gas Chromatographic/Mass Spectrometric Method[10,26] 2) Automated Soxhlet Extraction, Gas Chromatographic/Mass Spectrometric Method[11,26]
18	Bis(2-ethylhexyl)phthalate	1) Soxhlet Extraction, Gas Chromatographic/Mass Spectrometric Method[10,26] 2) Automated Soxhlet Extraction, Gas Chromatographic/Mass Spectrometric Method[11,26]
19	Bromodichloromethane	Purge and Trap, Gas Chromatographic/Mass Spectrometric Method[15,25]
20	Bromoform	Purge and Trap, Gas Chromatographic/Mass Spectrometric Method[15,25]
21	Butanol	Equilibrium Headspace, Gas Chromatographic/Mass Spectrometric Method[13,25]
22	Butyl Benzyl Phthalate	1) Soxhlet Extraction, Gas Chromatographic/Mass Spectrometric Method[10,26] 2) Automated Soxhlet Extraction, Gas Chromatographic/Mass Spectrometric Method[11,26]

23 Cadmium...

ลำดับที่	สารมลพิษ	วิธีวิเคราะห์
23	Cadmium	1) Digestion, Inductively Coupled Plasma Method[7,16] 2) Digestion, Inductively Coupled Plasma/ Mass Spectrometric Method[7,17]
24	Carbazole	1) Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method[10,26] 2) Automated Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method[11,26]
25	Carbon Disulfide	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method[15,25]
26	Carbon tetrachloride	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method[15,25]
27	Chlordane	1) Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method[10,26] 2) Automated Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method[11,26]
28	p-Chloroaniline	1) Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method[10,26] 2) Automated Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method[11,26]
29	Chlorobenzene	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method[15,25]
30	Chlorodibromomethane	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method[15,25]
31	Chloroform	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method[15,25]
32	2-Chlorophenol	1) Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method[10,26] 2) Automated Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method[11,26]
33	Chromium	1) Digestion, Inductively Coupled Plasma Method[7,16] 2) Digestion, Inductively Coupled Plasma/ Mass Spectrometric Method[7,17]
34	Chromium (III)	1) Digestion, Inductively Coupled Plasma Method; Alkaline Digestion, Colorimetric Method; Calculation Method[7,8,16,19] 2) Digestion, Inductively Coupled Plasma/ Mass Spectrometric Method; Alkaline Digestion, Colorimetric Method; Calculation Method[7,8,17,19]
35	Chromium (VI)	Alkaline Digestion, Colorimetric Method[8,19]

36 Chrysene...

ลำดับที่	สารมลพิษ	วิธีวิเคราะห์
36	Chrysene	1) Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method[10,26] 2) Automated Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method[11,26]
37	Cyanide	Extraction, Distillation, Colorimetric Method[27,28,29]
38	2,4-D	1) Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method[10,26] 2) Automated Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method[11,26]
39	DDD	1) Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method[10,26] 2) Automated Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method[11,26]
40	DDE	1) Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method[10,26] 2) Automated Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method[11,26]
41	DDT	1) Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method[10,26] 2) Automated Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method[11,26]
42	Dibenz(a,h)anthracene	1) Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method[10,26] 2) Automated Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method[11,26]
43	Di-n-Butyl Phthalate	1) Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method[10,26] 2) Automated Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method[11,26]
44	1,2-Dichlorobenzene	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method[15,25]
45	1,3-Dichlorobenzene	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method[15,25]
46	1,4-Dichlorobenzene	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method[15,25]
47	3,3-Dichlorobenzidine	1) Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method[10,26] 2) Automated Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method[11,26]
48	1,1-Dichloroethane	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method[15,25]

49 1,2-Dichloroethane...

ลำดับที่	สารมลพิษ	วิธีวิเคราะห์
49	1,2-Dichloroethane	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method[15,25]
50	1,1-Dichloroethylene	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method[15,25]
51	cis-1,2-Dichloroethylene	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method[15,25]
52	trans-1,2-Dichloroethylene	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method[15,25]
53	2,4-Dichlorophenol	1) Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method[10,26] 2) Automated Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method[11,26]
54	1,2-Dichloropropane	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method[15,25]
55	1,3-Dichloropropane	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method[15,25]
56	1,3-Dichloropropene	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method[15,25]
57	Dieldrin	1) Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method[10,26] 2) Automated Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method[11,26]
58	Diethyl Phthalate	1) Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method[10,26] 2) Automated Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method[11,26]
59	2,4-Dimethylphenol	1) Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method[10,26] 2) Automated Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method[11,26]
60	2,4-Dinitrophenol	1) Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method[10,26] 2) Automated Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method[11,26]
61	2,4-Dinitrotoluene	1) Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method[10,26] 2) Automated Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method[11,26]
62	2,6-Dinitrotoluene	1) Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method[10,26] 2) Automated Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method[11,26]

63 Di-n-Octyl Phthalate...

ลำดับที่	สารมลพิษ	วิธีวิเคราะห์
63	Di-n-Octyl Phthalate	1) Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method[10,26] 2) Automated Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method[11,26]
64	Endosulfan	1) Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method[10,26] 2) Automated Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method[11,26]
65	Endrin	1) Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method[10,26] 2) Automated Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method[11,26]
66	Ethylbenzene	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method[15,25]
67	Fluoranthene	1) Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method[10,26] 2) Automated Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method[11,26]
68	Fluorene	1) Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method[10,26] 2) Automated Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method[11,26]
69	Heptachlor	1) Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method[10,26] 2) Automated Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method[11,26]
70	Heptachlor epoxide	1) Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method[10,26] 2) Automated Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method[11,26]
71	Hexachlorobenzene	1) Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method[10,26] 2) Automated Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method[11,26]
72	Hexachloro-1,3-butadiene	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method[15,25]
73	n-Hexane	1) Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method[15,25] 2) Equilibrium Headspace, Gas Chromatographic/ Mass Spectrometric Method[15]

73 n-Hexane...

ลำดับที่	สารมลพิษ	วิธีวิเคราะห์
74	α-HCH	1) Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method[10,26] 2) Automated Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method[11,26]
75	β-HCH	1) Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method[10,26] 2) Automated Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method[11,26]
76	γ-HCH	1) Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method[10,26] 2) Automated Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method[11,26]
77	Hexachlorocyclopentadiene	1) Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method[10,26] 2) Automated Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method[11,26]
78	Hexachloroethane	1) Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method[10,26] 2) Automated Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method[11,26]
79	Indeno(1,2,3-cd)pyrene	1) Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method[10,26] 2) Automated Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method[11,26]
80	Isophorone	1) Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method[10,26] 2) Automated Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method[11,26]
81	Lead	1) Digestion, Inductively Coupled Plasma Method[7,16] 2) Digestion, Inductively Coupled Plasma/ Mass Spectrometric Method[7,17]
82	Manganese	1) Digestion, Inductively Coupled Plasma Method[7,16] 2) Digestion, Inductively Coupled Plasma/ Mass Spectrometric Method[7,17]
83	Mercury	1) Digestion, Cold-Vapor Atomic Absorption Spectrometric Method[20] 2) Thermal Decomposition, Amalgamation, and Atomic Absorption Spectrophotometry[21] 3) Digestion, Cold-Vapor Atomic Fluorescence Spectrometric Method[30]

84 Methanol...

ลำดับที่	สารมลพิษ	วิธีวิเคราะห์
84	Methanol	1) Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method[15,25] 2) Equilibrium Headspace, Gas Chromatographic/ Mass Spectrometric Method[15,25]
85	Methoxychlor	1) Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method[10,26] 2) Automated Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method[11,26]
86	Methyl Bromide	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method[15,25]
87	Methylene Chloride	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method[15,25]
88	2-methylphenol	1) Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method[10,26] 2) Automated Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method[11,26]
89	2-Methylnaphthalene	1) Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method[10,26] 2) Automated Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method[11,26]
90	Methyl tert-Butyl Ether	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method[15,25]
91	Naphthalene	1) Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method[10,26] 2) Automated Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method[11,26]
92	Nickel	1) Digestion, Inductively Coupled Plasma Method[7,16] 2) Digestion, Inductively Coupled Plasma/ Mass Spectrometric Method[7,17]
93	Nitrobenzene	1) Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method[10,26] 2) Automated Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method[11,26]
94	N-Nitrosodiphenylamine	1) Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method[10,26] 2) Automated Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method[11,26]
95	N-Nitrosodi-n-propylamine	1) Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method[10,26] 2) Automated Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method[11,26]

96 Polychlorinated biphenyls (PCBs)

ลำดับที่	สารมลพิษ	วิธีวิเคราะห์
96	Polychlorinated biphenyls (PCBs) - Aroclor 1016 - Aroclor 1221 - Aroclor 1232 - Aroclor 1242 - Aroclor 1248 - Aroclor 1254 - Aroclor 1260 - 2-Chlorobiphenyl - 2,2',3,5'-Tetrachlorobiphenyl - 2,2',5,5'-Tetrachlorobiphenyl - 2,3',4,4'-Tetrachlorobiphenyl - 2,2',3,4,5'-Pentachlorobiphenyl - 2,2',4,5,5'-Pentachlorobiphenyl - 2,3,3',4',6-Pentachlorobiphenyl - 2,2',3,4,4',5'-Hexachlorobiphenyl - 2,2',3,4,5,5'-Hexachlorobiphenyl - 2,2',3,5,5',6-Hexachlorobiphenyl - 2,2',4,4',5,5'-Hexachlorobiphenyl - 2,2',3,3',4,4',5-Heptachlorobiphenyl - 2,2',3,4,4',5,5'-Heptachlorobiphenyl - 2,2',3,4,4',5',6-Heptachlorobiphenyl - 2,2',3,4',5,5',6-Heptachlorobiphenyl - 2,2',3,3',4,4',5,5',6-Nonachlorobiphenyl	1) Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method[10,26] 2) Automated Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method[11,26]
97	Pentachlorophenol	1) Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method[10,26] 2) Automated Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method[11,26]
98	Phenanthrene	1) Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method[10,26] 2) Automated Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method[11,26]

99 Phenol...

ลำดับที่	สารมลพิษ	วิธีวิเคราะห์
99	Phenol	1) Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method[10,26] 2) Automated Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method[11,26]
100	Pyrene	1) Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method[10,26] 2) Automated Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method[11,26]
101	Selenium	1) Digestion, Inductively Coupled Plasma Method[7,16] 2) Digestion, Inductively Coupled Plasma/ Mass Spectrometric Method[7,17]
102	Silver	1) Digestion, Inductively Coupled Plasma Method[7,16] 2) Digestion, Inductively Coupled Plasma/ Mass Spectrometric Method[7,17]
103	Styrene	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method[15,25]
104	1,1,2,2-Tetrachloroethane	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method[15,25]
105	Tetrachloroethylene	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method[15,25]
106	Toluene	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method[15,25]
107	Toxaphene	1) Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method[10,26] 2) Automated Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method[11,26]
108	TPH (C_5–C_8)	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method[15,25]
109	TPH ($C_{>8}$– C_{16})	1) Automate Extraction, Gas Chromatographic Method[11,22] 2) Solvent Extraction, Gas Chromatographic Method[12,22] 3) Ultrasonic Extraction, Gas Chromatographic Method[22,31]
110	TPH ($C_{>16}$ – C_{35})	1) Automate Extraction, Gas Chromatographic Method[11,22] 2) Solvent Extraction, Gas Chromatographic Method[12,22] 3) Ultrasonic Extraction, Gas Chromatographic Method[22,31]
111	1,2,4-Trichlorobenzene	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method[15,25]
112	1,1,1-Trichloroethane	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method[15,25]
113	1,1,2-Trichloroethane	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method[15,25]
114	Trichloroethylene	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method[15,25]

115 2,4,5-Trichlorophenol...

ลำดับที่	สารมลพิษ	วิธีวิเคราะห์
115	2,4,5-Trichlorophenol	1) Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method[10,26] 2) Automated Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method[11,26]
116	2,4,6-Trichlorophenol	1) Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method[10,26] 2) Automated Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method[11,26]
117	1,3,5-Trimethylbenzene	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method[15,25]
118	Vanadium	1) Digestion, Inductively Coupled Plasma Method[7,16] 2) Digestion, Inductively Coupled Plasma/ Mass Spectrometric Method[7,17]
119	Vinyl Acetate	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method[15,25]
120	Vinyl Chloride	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method[15,25]
121	m-Xylene	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method[15,25]
122	o-Xylene	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method[15,25]
123	p-Xylene	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method[15,25]
124	Xylene (Total)	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method[15,25]
125	Zinc	1) Digestion, Inductively Coupled Plasma Method[7,16] 2) Digestion, Inductively Coupled Plasma/ Mass Spectrometric Method[7,17]

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ที่ อก ๐๓๑๐(๓)/ ๔๑๒๑

กรมโรงงานอุตสาหกรรม
ถนนพระรามที่ ๖ แขวงทุ่งพญาไท
เขตราชเทวี กรุงเทพฯ ๑๐๔๐๐

๒๕ เมษายน ๒๕๖๗

เรื่อง เปลี่ยนแปลงบุคลากรของห้องปฏิบัติการวิเคราะห์

เรียน กรรมการผู้จัดการ บริษัท เอแอลเอส แลบอราทอรี กรุ๊ป (ประเทศไทย) จำกัด

อ้างถึง คำขอขึ้นทะเบียน/ต่ออายุ/เปลี่ยนแปลงบุคลากร และชนิดสารมลพิษของห้องปฏิบัติการวิเคราะห์เอกชน ลงวันที่ ๒๙ มีนาคม ๒๕๖๗

ตามคำขอที่อ้างถึง บริษัท เอแอลเอส แลบอราทอรี กรุ๊ป (ประเทศไทย) จำกัด ห้องปฏิบัติการวิเคราะห์เอกชน เลขทะเบียน ว-๒๐๔ สถานที่ตั้งเลขที่ ๑๐๔ ซอยพัฒนาการ ๔๐ ถนนพัฒนาการ แขวงพัฒนาการ เขตสวนหลวง กรุงเทพมหานคร ขอเปลี่ยนแปลงบุคลากร ความละเอียดแจ้งแล้ว นั้น

กรมโรงงานอุตสาหกรรมพิจารณาแล้ว มีความเห็นดังนี้

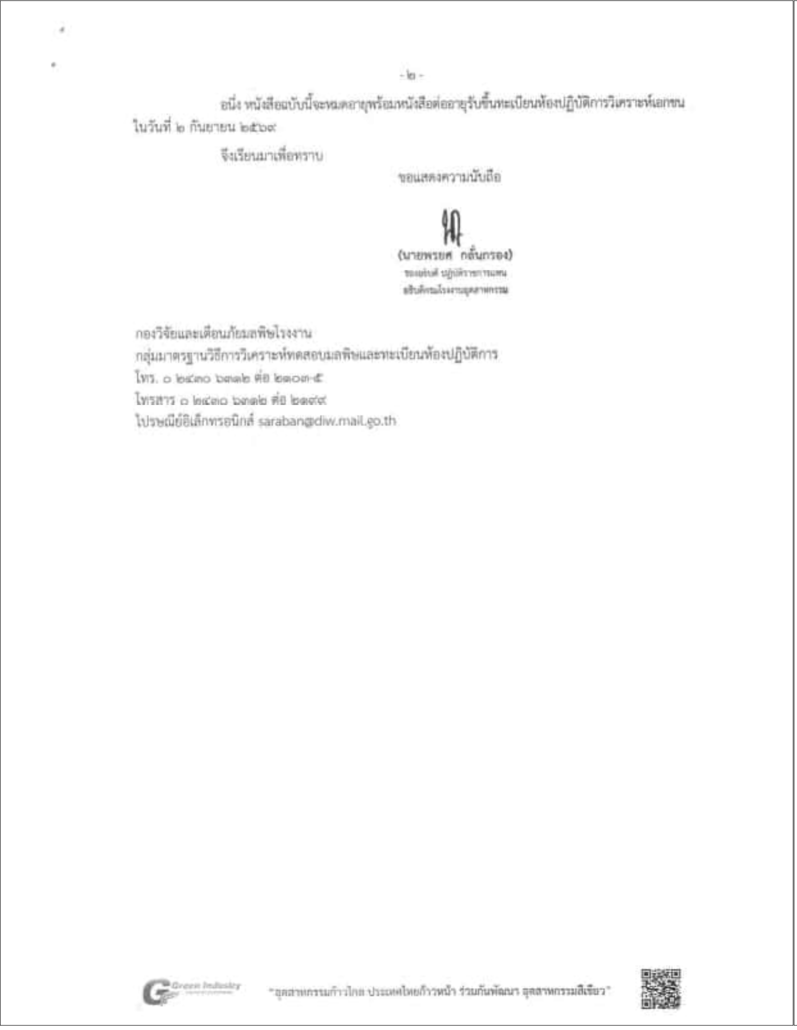
๑. ให้ยกเลิกเจ้าหน้าที่ประจำห้องปฏิบัติการวิเคราะห์ จำนวน ๓ ราย

๑) นางสาวพรรณธิดา พุ่มคง	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๐๖๕
๒) นายกำชัย สุทธะ	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๑๒๓
๓) นางสาวศุภรดา ปิ่นมยุรา	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๑๓๔

๒. ให้เพิ่มเจ้าหน้าที่ห้องปฏิบัติการวิเคราะห์เอกชน จำนวน ๑๒ ราย

๑) นางสาวฐานิดา กลิ่นเขียว	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๑๘๒
๒) นางสาวกัญญ์ภัสสร สายคำ	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๑๘๓
๓) นางสาวณัฐนันท์ กันทะวงศ์	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๑๘๔
๔) นายอำนาจ วงษาเคน	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๑๘๕
๕) นายกฤษณพล ปัญญาวงศ์	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๑๘๖
๖) นายณชากร หรรษา	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๑๘๗
๗) นายวัชรินทร์ ผ่องสามสวน	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๑๘๘
๘) นายณัฐพงศ์ โสภา	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๑๘๙
๙) นายศักรินทร์ ปานเพ็ง	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๑๙๐
๑๐) นายณัฐพล ชุ่มชื่น	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๑๙๑
๑๑) นายธนา สุพาพันธุ์	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๑๙๒
๑๒) นายนราธร แก้วพงษ์ษา	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๑๙๓

อนึ่ง หนังสือฉบับนี้...



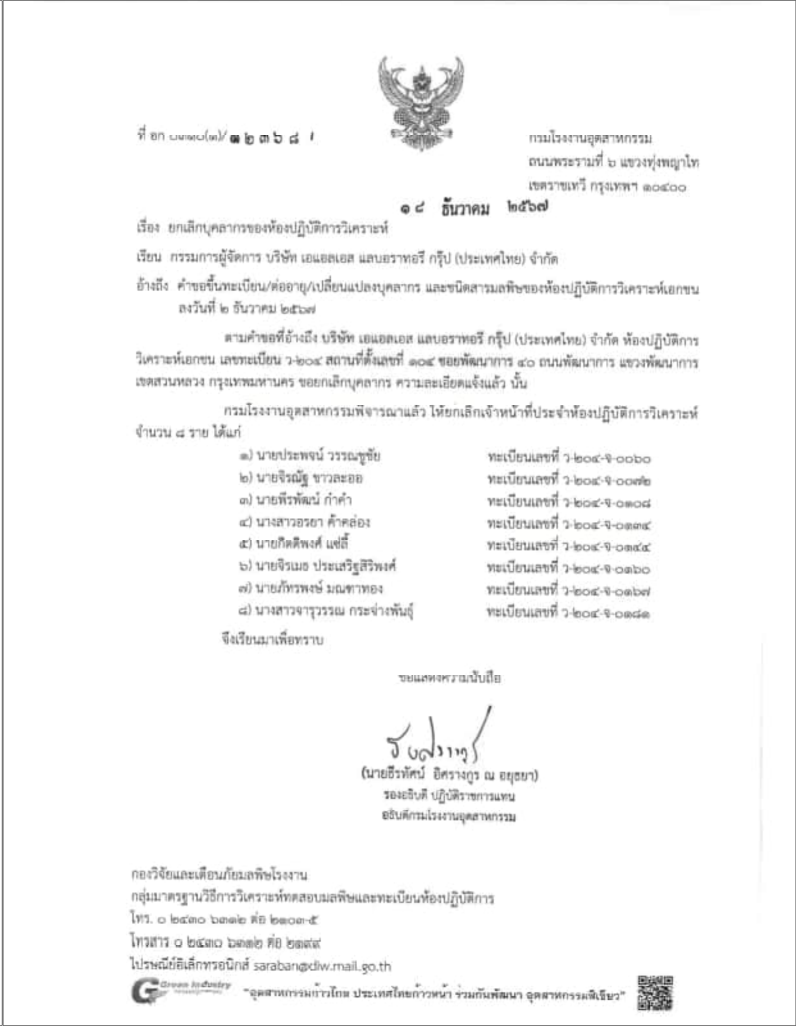
อนึ่ง หนังสือฉบับนี้จะหมดอายุพร้อมหนังสือต่ออายุรับขึ้นทะเบียนห้องปฏิบัติการวิเคราะห์เอกชน ในวันที่ ๒ กันยายน ๒๕๖๙

จึงเรียนมาเพื่อทราบ

ขอแสดงความนับถือ

(นายพรยศ กลั่นกรอง)
รองอธิบดี ปฏิบัติราชการแทน
อธิบดีกรมโรงงานอุตสาหกรรม

กองวิจัยและเตือนภัยมลพิษโรงงาน
กลุ่มมาตรฐานวิธีการวิเคราะห์ทดสอบมลพิษและทะเบียนห้องปฏิบัติการ
โทร. ๐ ๒๔๓๐ ๖๓๑๒ ต่อ ๒๑๐๓-๕
โทรสาร ๐ ๒๔๓๐ ๖๓๑๒ ต่อ ๒๑๙๙
ไปรษณีย์อิเล็กทรอนิกส์ saraban@diw.mail.go.th



ที่ อก ๐๓๑๐(๓)/ ๑๒๓๖๘

กรมโรงงานอุตสาหกรรม
ถนนพระรามที่ ๖ แขวงทุ่งพญาไท
เขตราชเทวี กรุงเทพฯ ๑๐๔๐๐

๑๘ ธันวาคม ๒๕๖๗

เรื่อง ยกเลิกบุคลากรของห้องปฏิบัติการวิเคราะห์

เรียน กรรมการผู้จัดการ บริษัท เอแอลเอส แลบอราทอรี กรุ๊ป (ประเทศไทย) จำกัด

อ้างถึง คำขอขึ้นทะเบียน/ต่ออายุ/เปลี่ยนแปลงบุคลากร และชนิดสารมลพิษของห้องปฏิบัติการวิเคราะห์เอกชน ลงวันที่ ๒ ธันวาคม ๒๕๖๗

ตามคำขอที่อ้างถึง บริษัท เอแอลเอส แลบอราทอรี กรุ๊ป (ประเทศไทย) จำกัด ห้องปฏิบัติการวิเคราะห์เอกชน เลขทะเบียน ว-๒๐๔ สถานที่ตั้งเลขที่ ๑๐๔ ซอยพัฒนาการ ๔๐ ถนนพัฒนาการ แขวงพัฒนาการ เขตสวนหลวง กรุงเทพมหานคร ขอยกเลิกบุคลากร ความละเอียดแจ้งแล้ว นั้น

กรมโรงงานอุตสาหกรรมพิจารณาแล้ว ให้ยกเลิกเจ้าหน้าที่ประจำห้องปฏิบัติการวิเคราะห์ จำนวน ๘ ราย ได้แก่

๑) นายประพจน์ วรรณชูชัย	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๐๖๐
๒) นายจิรณัฐ ขาวละออ	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๐๗๒
๓) นายพีรพัฒน์ กำคำ	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๑๐๘
๔) นางสาวอรยา ค้าคล่อง	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๑๓๔
๕) นายกิตติพงศ์ แซ่ลี้	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๑๔๔
๖) นายจิรเมธ ประเสริฐสิริพงศ์	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๑๖๐
๗) นายภัทรพงษ์ มณฑาทอง	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๑๖๗
๘) นางสาวจารุวรรณ กระจ่างพันธุ์	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๑๘๑

จึงเรียนมาเพื่อทราบ

ขอแสดงความนับถือ

(นายธีรทัศน์ อิศรางกูร ณ อยุธยา)
รองอธิบดี ปฏิบัติราชการแทน
อธิบดีกรมโรงงานอุตสาหกรรม

กองวิจัยและเตือนภัยมลพิษโรงงาน
กลุ่มมาตรฐานวิธีการวิเคราะห์ทดสอบมลพิษและทะเบียนห้องปฏิบัติการ
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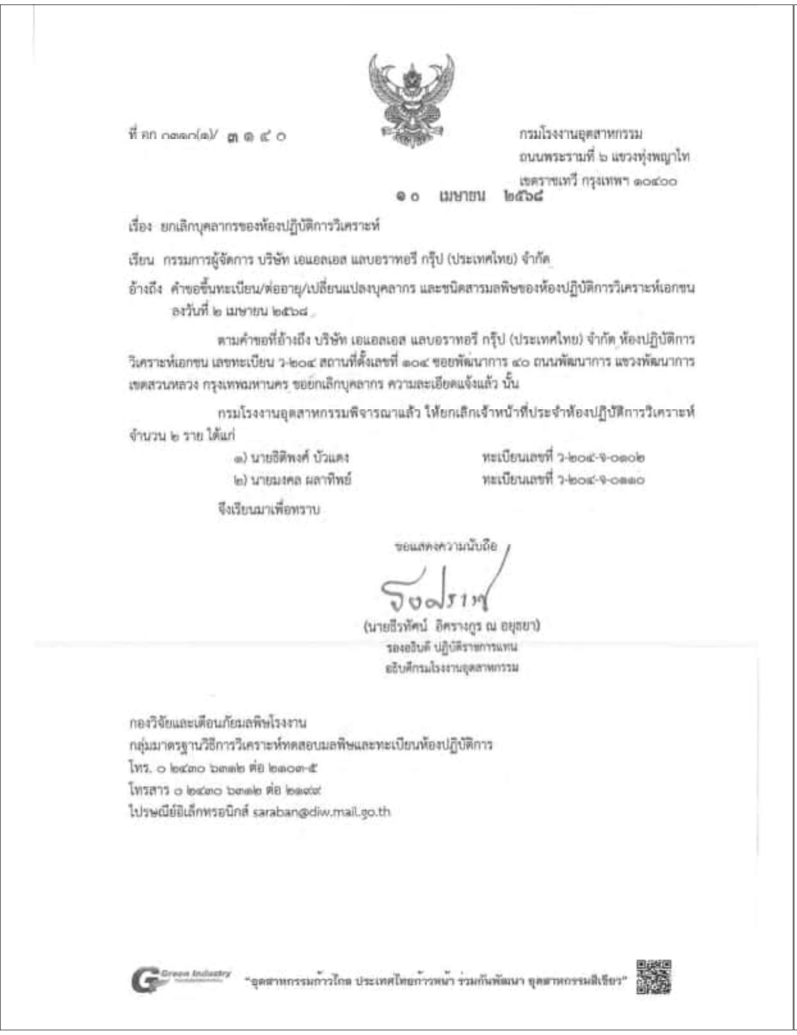
โทรสาร ๐ ๒๔๓๐ ๖๓๑๒ ต่อ ๒๑๙๙
ไปรษณีย์อิเล็กทรอนิกส์ saraban@diw.mail.go.th



ที่ อก ๐๓๑๐(๓)/ ๓๑๔๐

กรมโรงงานอุตสาหกรรม
ถนนพระรามที่ ๖ แขวงทุ่งพญาไท
เขตราชเทวี กรุงเทพฯ ๑๐๔๐๐

๑๐ เมษายน ๒๕๖๘

เรื่อง ยกเลิกบุคลากรของห้องปฏิบัติการวิเคราะห์

เรียน กรรมการผู้จัดการ บริษัท เอแอลเอส แลบอราทอรี กรุ๊ป (ประเทศไทย) จำกัด

อ้างถึง คำขอขึ้นทะเบียน/ต่ออายุ/เปลี่ยนแปลงบุคลากร และชนิดสารมลพิษของห้องปฏิบัติการวิเคราะห์เอกชน ลงวันที่ ๒ เมษายน ๒๕๖๘

ตามคำขอที่อ้างถึง บริษัท เอแอลเอส แลบอราทอรี กรุ๊ป (ประเทศไทย) จำกัด ห้องปฏิบัติการวิเคราะห์เอกชน เลขทะเบียน ว-๒๐๔ สถานที่ตั้งเลขที่ ๑๐๔ ซอยพัฒนาการ ๔๐ ถนนพัฒนาการ แขวงพัฒนาการ เขตสวนหลวง กรุงเทพมหานคร ขอยกเลิกบุคลากร ความละเอียดแจ้งแล้ว นั้น

กรมโรงงานอุตสาหกรรมพิจารณาแล้ว ให้ยกเลิกเจ้าหน้าที่ประจำห้องปฏิบัติการวิเคราะห์ จำนวน ๒ ราย ได้แก่

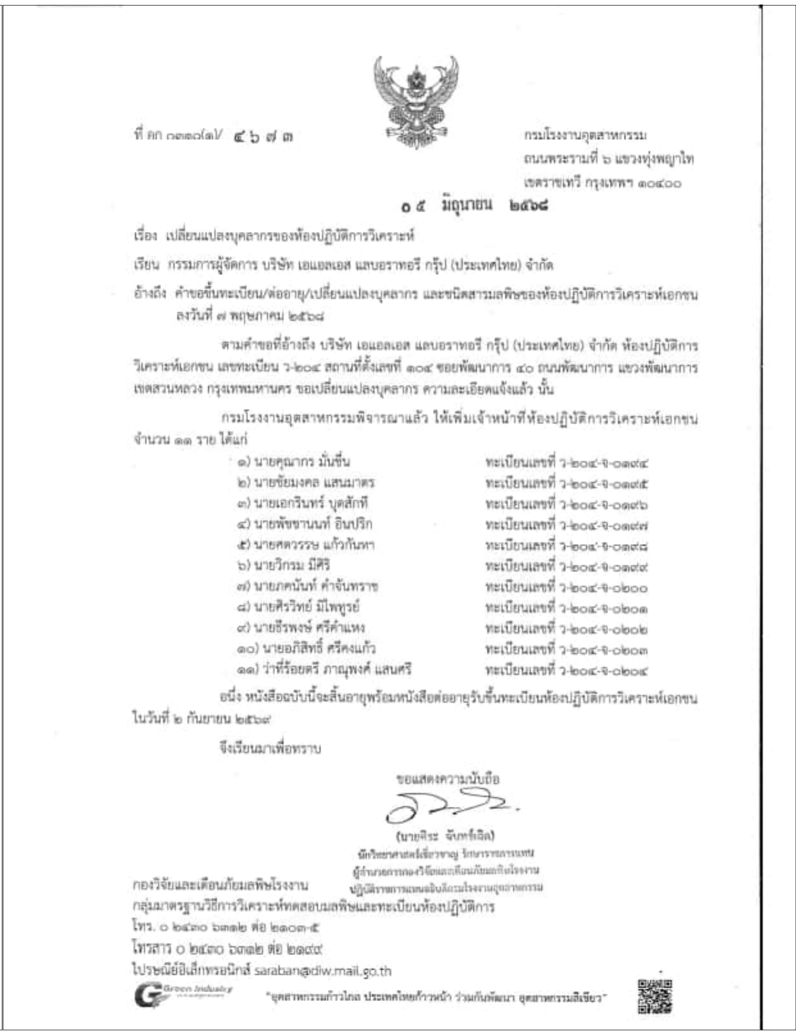
๑) นายธิติพงศ์ บัวแดง	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๑๐๒
๒) นายมงคล ผลาทิพย์	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๑๑๐

จึงเรียนมาเพื่อทราบ

ขอแสดงความนับถือ

(นายธีรทัศน์ อิศรางกูร ณ อยุธยา)
รองอธิบดี ปฏิบัติราชการแทน
อธิบดีกรมโรงงานอุตสาหกรรม

กองวิจัยและเตือนภัยมลพิษโรงงาน
กลุ่มมาตรฐานวิธีการวิเคราะห์ทดสอบมลพิษและทะเบียนห้องปฏิบัติการ
โทร. ๐ ๒๔๓๐ ๖๓๑๒ ต่อ ๒๑๐๓-๕
โทรสาร ๐ ๒๔๓๐ ๖๓๑๒ ต่อ ๒๑๙๙
ไปรษณีย์อิเล็กทรอนิกส์ saraban@diw.mail.go.th



ที่ อก ๐๓๑๐(๓)/ ๔๖๗๓

กรมโรงงานอุตสาหกรรม
ถนนพระรามที่ ๖ แขวงทุ่งพญาไท
เขตราชเทวี กรุงเทพฯ ๑๐๔๐๐

๐๕ มิถุนายน ๒๕๖๘

เรื่อง เปลี่ยนแปลงบุคลากรของห้องปฏิบัติการวิเคราะห์

เรียน กรรมการผู้จัดการ บริษัท เอแอลเอส แลบอราทอรี กรุ๊ป (ประเทศไทย) จำกัด

อ้างถึง คำขอขึ้นทะเบียน/ต่ออายุ/เปลี่ยนแปลงบุคลากร และชนิดสารมลพิษของห้องปฏิบัติการวิเคราะห์เอกชน ลงวันที่ ๗ พฤษภาคม ๒๕๖๘

ตามคำขอที่อ้างถึง บริษัท เอแอลเอส แลบอราทอรี กรุ๊ป (ประเทศไทย) จำกัด ห้องปฏิบัติการวิเคราะห์เอกชน เลขทะเบียน ว-๒๐๔ สถานที่ตั้งเลขที่ ๑๐๔ ซอยพัฒนาการ ๔๐ ถนนพัฒนาการ แขวงพัฒนาการ เขตสวนหลวง กรุงเทพมหานคร ขอเปลี่ยนแปลงบุคลากร ความละเอียดแจ้งแล้ว นั้น

กรมโรงงานอุตสาหกรรมพิจารณาแล้ว ให้เพิ่มเจ้าหน้าที่ห้องปฏิบัติการวิเคราะห์เอกชน จำนวน ๑๑ ราย ได้แก่

๑) นายคุณากร มั่นชื่น	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๑๙๔
๒) นายชัยมงคล แสนมาตร	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๑๙๕
๓) นายเอกรินทร์ บุตสักที	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๑๙๖
๔) นายพัชชานนท์ อินปริก	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๑๙๗
๕) นายศตวรรษ แก้วกันหา	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๑๙๘
๖) นายวิกรม มีศิริ	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๑๙๙
๗) นายภคนันท์ คำจันทราช	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๒๐๐
๘) นายศิรวิทย์ มีไพฑูรย์	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๒๐๑
๙) นายธีรพงษ์ ศรีคำแหง	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๒๐๒
๑๐) นายอภิสิทธิ์ ศรีคงแก้ว	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๒๐๓
๑๑) ว่าที่ร้อยตรี ภาณุพงศ์ แสนศรี	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๒๐๔

อนึ่ง หนังสือฉบับนี้จะสิ้นอายุพร้อมหนังสือต่ออายุรับขึ้นทะเบียนห้องปฏิบัติการวิเคราะห์เอกชน ในวันที่ ๒ กันยายน ๒๕๖๙

จึงเรียนมาเพื่อทราบ

ขอแสดงความนับถือ

(นายจิระ จันทร์เฉิด)
นักวิทยาศาสตร์เชี่ยวชาญ รักษาราชการแทน
ผู้อำนวยการกองวิจัยและเตือนภัยมลพิษโรงงาน
ปฏิบัติราชการแทนอธิบดีกรมโรงงานอุตสาหกรรม

กองวิจัยและเตือนภัยมลพิษโรงงาน
กลุ่มมาตรฐานวิธีการวิเคราะห์ทดสอบมลพิษและทะเบียนห้องปฏิบัติการ
โทร. ๐ ๒๔๓๐ ๖๓๑๒ ต่อ ๒๑๐๓-๕
โทรสาร ๐ ๒๔๓๐ ๖๓๑๒ ต่อ ๒๑๙๙
ไปรษณีย์อิเล็กทรอนิกส์ saraban@diw.mail.go.th

ที่ อก ๐๓๑๐(๑)/ ๖๙๐๘

กรมโรงงานอุตสาหกรรม
ถนนพระรามที่ ๖ แขวงทุ่งพญาไท
เขตราชเทวี กรุงเทพฯ ๑๐๔๐๐

๒๑ สิงหาคม ๒๕๖๘

เรื่อง เปลี่ยนแปลงสารมลพิษที่วิเคราะห์

เรียน กรรมการผู้จัดการ บริษัท เอแอลเอส แลบอราทอรี กรุ๊ป (ประเทศไทย) จำกัด

อ้างถึง คำขอขึ้นทะเบียน/ต่ออายุ/เปลี่ยนแปลงบุคลากร และชนิดสารมลพิษของห้องปฏิบัติการวิเคราะห์เอกชน ลงวันที่ ๒๗ มิถุนายน ๒๕๖๘

สิ่งที่ส่งมาด้วย เอกสารแนบท้ายหนังสือเปลี่ยนแปลงสารมลพิษที่วิเคราะห์
บริษัท เอแอลเอส แลบอราทอรี กรุ๊ป (ประเทศไทย) จำกัด จำนวน ๖ แผ่น

ตามคำขอที่อ้างถึง บริษัท เอแอลเอส แลบอราทอรี กรุ๊ป (ประเทศไทย) จำกัด ห้องปฏิบัติการวิเคราะห์เอกชน เลขทะเบียน ว-๒๐๔ สถานที่ตั้งเลขที่ ๑๐๔ ซอยพัฒนาการ ๔๐ ถนนพัฒนาการ แขวงพัฒนาการ เขตสวนหลวง กรุงเทพมหานคร ขอเปลี่ยนแปลงสารมลพิษที่วิเคราะห์ ต่อกรมโรงงานอุตสาหกรรม นั้น

กรมโรงงานอุตสาหกรรมพิจารณาแล้ว ให้บริษัท เอแอลเอส แลบอราทอรี กรุ๊ป (ประเทศไทย) จำกัด เพิ่มขอบข่ายชนิดสารมลพิษที่วิเคราะห์ในน้ำใต้ดิน สิ่งปฏิกูลและวัสดุที่ไม่ใช้แล้ว และดิน ตามสิ่งที่ส่งมาด้วย

อนึ่ง หนังสือฉบับนี้จะสิ้นอายุพร้อมหนังสือต่ออายุรับขึ้นทะเบียนห้องปฏิบัติการวิเคราะห์เอกชน ในวันที่ ๒ กันยายน ๒๕๖๙

จึงเรียนมาเพื่อทราบ

ขอแสดงความนับถือ

(นางสาวปัทมวรรณ คุณประเสริฐ)
ผู้อำนวยการกองวิจัยและเตือนภัยมลพิษโรงงาน
ปฏิบัติราชการแทนอธิบดีกรมโรงงานอุตสาหกรรม

กองวิจัยและเตือนภัยมลพิษโรงงาน
กลุ่มมาตรฐานวิธีการวิเคราะห์ทดสอบมลพิษและทะเบียนห้องปฏิบัติการ
โทร. ๐ ๒๔๓๐ ๖๓๑๒ ต่อ ๒๑๐๓-๕
โทรสาร ๐ ๒๔๓๐ ๖๓๑๒ ต่อ ๒๑๙๙
ไปรษณีย์อิเล็กทรอนิกส์ saraban@diw.mail.go.th

เอกสารแนบท้ายหนังสือเปลี่ยนแปลงสารมลพิษที่วิเคราะห์
บริษัท เอแอลเอส แลบอราทอรี กรุ๊ป (ประเทศไทย) จำกัด เลขทะเบียน ว-๒๐๔
ที่ อก ๐๓๑๐(๑)/ ๖๙๐๘ ลงวันที่ ๒๑ สิงหาคม ๒๕๖๘

ขอบข่ายสารมลพิษที่ได้รับขึ้นทะเบียนจากกรมโรงงานอุตสาหกรรม จำนวน ๔๐ รายการ

น้ำใต้ดิน จำนวน ๔ รายการ

ลำดับที่	สารมลพิษ	วิธีวิเคราะห์
1	Aluminum	Digestion, Inductively Coupled Plasma/ Mass Spectrometric Method[2]
2	Copper	Digestion, Inductively Coupled Plasma/ Mass Spectrometric Method[2]
3	Iron	Digestion, Inductively Coupled Plasma/ Mass Spectrometric Method[2]
4	Molybdenum	Digestion, Inductively Coupled Plasma/ Mass Spectrometric Method[2]

สิ่งปฏิกูลหรือวัสดุที่ไม่ใช้แล้ว จำนวน 17 รายการ

ลำดับที่	สารมลพิษ	วิธีวิเคราะห์
1	Antimony	1) Waste Extraction, Digestion, Inductively Coupled Plasma Method[1,3,6] 2) Waste Extraction, Digestion, Inductively Coupled Plasma/Mass Spectrometric Method[1,3,7] 3) Digestion, Inductively Coupled Plasma Method[4,6] 4) Digestion, Inductively Coupled Plasma/ Mass Spectrometric Method[4,7]
2	Arsenic	1) Waste Extraction, Digestion, Inductively Coupled Plasma Method[1,3,6] 2) Waste Extraction, Digestion, Inductively Coupled Plasma/Mass Spectrometric Method[1,3,7] 3) Digestion, Inductively Coupled Plasma Method[4,6] 4) Digestion, Inductively Coupled Plasma/ Mass Spectrometric Method[4,7]
3	Barium	1) Waste Extraction, Digestion, Inductively Coupled Plasma Method[1,3,6] 2) Waste Extraction, Digestion, Inductively Coupled Plasma/Mass Spectrometric Method[1,3,7] 3) Digestion, Inductively Coupled Plasma Method[4,6] 4) Digestion, Inductively Coupled Plasma/ Mass Spectrometric Method[4,7]

Beryllium

ลำดับที่	สารมลพิษ	วิธีวิเคราะห์
4	Beryllium	1) Waste Extraction, Digestion, Inductively Coupled Plasma Method[1,3,6] 2) Waste Extraction, Digestion, Inductively Coupled Plasma/Mass Spectrometric Method[1,3,7] 3) Digestion, Inductively Coupled Plasma Method[4,6] 4) Digestion, Inductively Coupled Plasma/ Mass Spectrometric Method[4,7]
5	Cadmium	1) Waste Extraction, Digestion, Inductively Coupled Plasma Method[1,3,6] 2) Waste Extraction, Digestion, Inductively Coupled Plasma/Mass Spectrometric Method[1,3,7] 3) Digestion, Inductively Coupled Plasma Method[4,6] 4) Digestion, Inductively Coupled Plasma/ Mass Spectrometric Method[4,7]
6	Chromium	1) Waste Extraction, Digestion, Inductively Coupled Plasma Method[1,3,6] 2) Waste Extraction, Digestion, Inductively Coupled Plasma/Mass Spectrometric Method[1,3,7] 3) Digestion, Inductively Coupled Plasma Method[4,6] 4) Digestion, Inductively Coupled Plasma/ Mass Spectrometric Method[4,7]
7	Chromium (III)	1) Waste Extraction, Digestion, Inductively Coupled Plasma Method; Waste Extraction, Colorimetric Method; Calculation Method[1,3,6,8] 2) Waste Extraction, Digestion, Inductively Coupled Plasma/Mass Spectrometric Method; Waste Extraction, Colorimetric Method; Calculation Method[1,3,7,8] 3) Digestion, Inductively Coupled Plasma Method; Alkaline Digestion, Colorimetric Method; Calculation Method[4,5,6,8] 4) Digestion, Inductively Coupled Plasma/ Mass Spectrometric Method; Alkaline Digestion, Colorimetric Method; Calculation Method[4,5,7,8]
8	Cobalt	1) Waste Extraction, Digestion, Inductively Coupled Plasma Method[1,3,6] 2) Waste Extraction, Digestion, Inductively Coupled Plasma/Mass Spectrometric Method[1,3,7]

3) Digestion...

ลำดับที่	สารมลพิษ	วิธีวิเคราะห์
		3) Digestion, Inductively Coupled Plasma Method[4,6] 4) Digestion, Inductively Coupled Plasma/ Mass Spectrometric Method[4,7]
9	Copper	1) Waste Extraction, Digestion, Inductively Coupled Plasma Method[1,3,6] 2) Waste Extraction, Digestion, Inductively Coupled Plasma/Mass Spectrometric Method[1,3,7] 3) Digestion, Inductively Coupled Plasma Method[4,6] 4) Digestion, Inductively Coupled Plasma/ Mass Spectrometric Method[4,7]
10	Lead	1) Waste Extraction, Digestion, Inductively Coupled Plasma Method[1,3,6] 2) Waste Extraction, Digestion, Inductively Coupled Plasma/Mass Spectrometric Method[1,3,7] 3) Digestion, Inductively Coupled Plasma Method[4,6] 4) Digestion, Inductively Coupled Plasma/ Mass Spectrometric Method[4,7]
11	Molybdenum	1) Waste Extraction, Digestion, Inductively Coupled Plasma Method[1,3,6] 2) Waste Extraction, Digestion, Inductively Coupled Plasma/Mass Spectrometric Method[1,3,7] 3) Digestion, Inductively Coupled Plasma Method[4,6] 4) Digestion, Inductively Coupled Plasma/ Mass Spectrometric Method[4,7]
12	Nickel	1) Waste Extraction, Digestion, Inductively Coupled Plasma Method[1,3,6] 2) Waste Extraction, Digestion, Inductively Coupled Plasma/Mass Spectrometric Method[1,3,7] 3) Digestion, Inductively Coupled Plasma Method[4,6] 4) Digestion, Inductively Coupled Plasma/ Mass Spectrometric Method[4,7]
13	Selenium	1) Waste Extraction, Digestion, Inductively Coupled Plasma Method[1,3,6] 2) Waste Extraction, Digestion, Inductively Coupled Plasma/Mass Spectrometric Method[1,3,7] 3) Digestion, Inductively Coupled Plasma Method[4,6] 4) Digestion, Inductively Coupled Plasma/ Mass Spectrometric Method[4,7]

14 Silver...

ลำดับที่	สารมลพิษ	วิธีวิเคราะห์
14	Silver	1) Waste Extraction, Digestion, Inductively Coupled Plasma Method[1,3,6] 2) Waste Extraction, Digestion, Inductively Coupled Plasma/Mass Spectrometric Method[1,3,7] 3) Digestion, Inductively Coupled Plasma Method[4,6] 4) Digestion, Inductively Coupled Plasma/ Mass Spectrometric Method[4,7]
15	Thallium	1) Waste Extraction, Digestion, Inductively Coupled Plasma Method[1,3,6] 2) Waste Extraction, Digestion, Inductively Coupled Plasma/Mass Spectrometric Method[1,3,7] 3) Digestion, Inductively Coupled Plasma Method[4,6] 4) Digestion, Inductively Coupled Plasma/ Mass Spectrometric Method[4,7]
16	Vanadium	1) Waste Extraction, Digestion, Inductively Coupled Plasma Method[1,3,6] 2) Waste Extraction, Digestion, Inductively Coupled Plasma/Mass Spectrometric Method[1,3,7] 3) Digestion, Inductively Coupled Plasma Method[4,6] 4) Digestion, Inductively Coupled Plasma/ Mass Spectrometric Method[4,7]
17	Zinc	1) Waste Extraction, Digestion, Inductively Coupled Plasma Method[1,3,6] 2) Waste Extraction, Digestion, Inductively Coupled Plasma/Mass Spectrometric Method[1,3,7] 3) Digestion, Inductively Coupled Plasma Method[4,6] 4) Digestion, Inductively Coupled Plasma/ Mass Spectrometric Method[4,7]

ดิน จำนวน 19 รายการ

ลำดับที่	สารมลพิษ	วิธีวิเคราะห์
1	Aluminum	1) Digestion, Inductively Coupled Plasma Method[4,6] 2) Digestion, Inductively Coupled Plasma/ Mass Spectrometric Method[4,7]
2	Antimony	1) Digestion, Inductively Coupled Plasma Method[4,6] 2) Digestion, Inductively Coupled Plasma/ Mass Spectrometric Method[4,7]
3	Arsenic	1) Digestion, Inductively Coupled Plasma Method[4,6] 2) Digestion, Inductively Coupled Plasma/ Mass Spectrometric Method[4,7]
4	Barium	1) Digestion, Inductively Coupled Plasma Method[4,6] 2) Digestion, Inductively Coupled Plasma/ Mass Spectrometric Method[4,7]
5	Beryllium	1) Digestion, Inductively Coupled Plasma Method[4,6] 2) Digestion, Inductively Coupled Plasma/ Mass Spectrometric Method[4,7]
6	Cadmium	1) Digestion, Inductively Coupled Plasma Method[4,6] 2) Digestion, Inductively Coupled Plasma/ Mass Spectrometric Method[4,7]
7	Chromium	1) Digestion, Inductively Coupled Plasma Method[4,6] 2) Digestion, Inductively Coupled Plasma/ Mass Spectrometric Method[4,7]
8	Chromium (III)	1) Digestion, Inductively Coupled Plasma Method; Alkaline Digestion, Colorimetric Method; Calculation Method[4,5,6,8] 2) Digestion, Inductively Coupled Plasma/ Mass Spectrometric Method; Alkaline Digestion, Colorimetric Method; Calculation Method[4,5,7,8]
9	Copper	1) Digestion, Inductively Coupled Plasma Method[4,6] 2) Digestion, Inductively Coupled Plasma/ Mass Spectrometric Method[4,7]
10	Iron	1) Digestion, Inductively Coupled Plasma Method[4,6] 2) Digestion, Inductively Coupled Plasma/ Mass Spectrometric Method[4,7]
11	Lead	1) Digestion, Inductively Coupled Plasma Method[4,6] 2) Digestion, Inductively Coupled Plasma/ Mass Spectrometric Method[4,7]
12	Manganese	1) Digestion, Inductively Coupled Plasma Method[4,6] 2) Digestion, Inductively Coupled Plasma/ Mass Spectrometric Method[4,7]
13	Molybdenum	1) Digestion, Inductively Coupled Plasma Method[4,6] 2) Digestion, Inductively Coupled Plasma/ Mass Spectrometric Method[4,7]
14	Nickel	1) Digestion, Inductively Coupled Plasma Method[4,6] 2) Digestion, Inductively Coupled Plasma/ Mass Spectrometric Method[4,7]
15	pH	Electrometric Method[9]
16	Selenium	1) Digestion, Inductively Coupled Plasma Method[4,6] 2) Digestion, Inductively Coupled Plasma/ Mass Spectrometric Method[4,7]
17	Silver	1) Digestion, Inductively Coupled Plasma Method[4,6] 2) Digestion, Inductively Coupled Plasma/ Mass Spectrometric Method[4,7]
18	Vanadium	1) Digestion, Inductively Coupled Plasma Method[4,6] 2) Digestion, Inductively Coupled Plasma/ Mass Spectrometric Method[4,7]
19	Zinc	1) Digestion, Inductively Coupled Plasma Method[4,6] 2) Digestion, Inductively Coupled Plasma/ Mass Spectrometric Method[4,7]

3 Arsenic...

15 pH...

เอกสารอ้างอิง

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6. United States Environmental Protection Agency. Test Methods for Evaluation Solid Waste Physical/Chemical Methods. **Inductively Coupled Plasma-Optical Emission Spectrometry. SW-846 Method 6010D,** 2018.

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9. United States Environmental Protection Agency. Test Methods for Evaluation Solid Waste Physical/Chemical Methods. **Soil and Waste pH. SW-846 Method 9045D,** 2004.

ที่ อก ๐๓๓๐(๓)/๕๐๑๑

กรมโรงงานอุตสาหกรรม
ถนนพระรามที่ ๖ แขวงทุ่งพญาไท
เขตราชเทวี กรุงเทพฯ ๑๐๔๐๐

๒๖ กันยายน ๒๕๖๘

เรื่อง เปลี่ยนแปลงบุคลากร ชื่อตัวและชื่อสกุลของบุคลากร

เรียน กรรมการผู้จัดการ บริษัท เอแอลเอส แลบอราทอรี กรุ๊ป (ประเทศไทย) จำกัด

อ้างถึง คำขอขึ้นทะเบียน/ต่ออายุ/เปลี่ยนแปลงบุคลากร และชนิดสารมลพิษของห้องปฏิบัติการวิเคราะห์เอกชน ลงวันที่ ๒๑ สิงหาคม ๒๕๖๘

ตามคำขอที่อ้างถึง บริษัท เอแอลเอส แลบอราทอรี กรุ๊ป (ประเทศไทย) จำกัดห้องปฏิบัติการวิเคราะห์เอกชน เลขทะเบียน ว-๒๐๔ สถานที่ตั้งเลขที่ ๑๐๔ ซอยพัฒนาการ ๔๐ ถนนพัฒนาการ แขวงพัฒนาการ เขตสวนหลวง กรุงเทพมหานคร ขอเปลี่ยนแปลงบุคลากร ชื่อตัวและชื่อสกุลของบุคลากร ต่อกรมโรงงานอุตสาหกรรม นั้น

กรมโรงงานอุตสาหกรรมพิจารณาแล้ว มีความเห็นดังนี้

๑. ให้ยกเลิกเจ้าหน้าที่ประจำห้องปฏิบัติการวิเคราะห์ จำนวน ๒ ราย

๑) นางสาวพาฤดี คุณนาน	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๑๓๙
๒) นางสาวอรณิช เทียนคำ	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๑๗๔

๒. ให้เปลี่ยนชื่อตัวและชื่อสกุลของเจ้าหน้าที่ประจำห้องปฏิบัติการวิเคราะห์ จากเดิม นายอาทิตย์ ศรีเสน เป็น นายรัฐธีร์ ทวีกิจจรพงษ์ ทะเบียนเลขที่ ว-๒๐๔-จ-๐๐๔๘

อนึ่ง หนังสือฉบับนี้จะสิ้นอายุพร้อมหนังสือต่ออายุรับขึ้นทะเบียนห้องปฏิบัติการวิเคราะห์เอกชน ในวันที่ ๒ กันยายน ๒๕๖๙

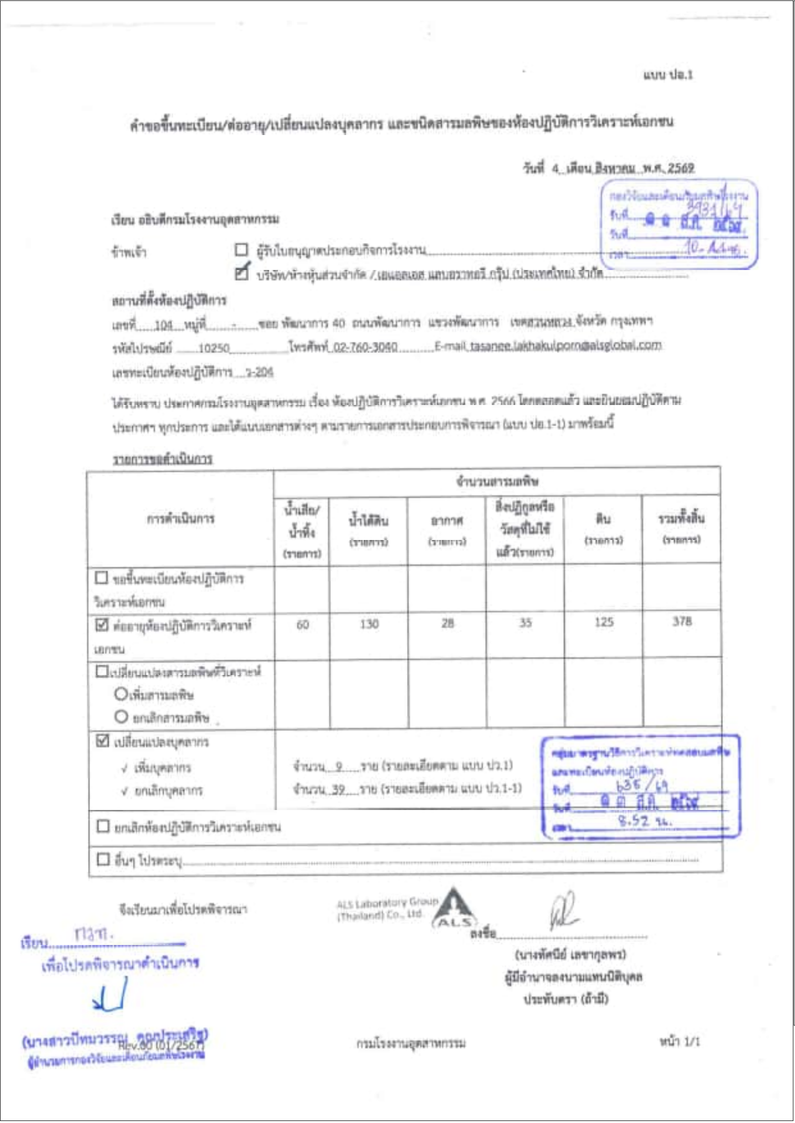
จึงเรียนมาเพื่อทราบ

ขอแสดงความนับถือ

(นางสาวปัทมวรรณ คุณประเสริฐ)
ผู้อำนวยการกองวิจัยและเตือนภัยมลพิษโรงงาน
ปฏิบัติราชการแทนอธิบดีกรมโรงงานอุตสาหกรรม

กองวิจัยและเตือนภัยมลพิษโรงงาน
กลุ่มมาตรฐานวิธีการวิเคราะห์ทดสอบมลพิษและทะเบียนห้องปฏิบัติการ
โทร. ๐ ๒๔๓๐ ๖๓๑๒ ต่อ ๒๒๐๓-๕
โทรสาร ๐ ๒๔๓๐ ๖๓๑๒ ต่อ ๒๑๙๙
ไปรษณีย์อิเล็กทรอนิกส์ saraban@diw.mail.go.th

"อุตสาหกรรมก้าวไกล ประเทศไทยก้าวหน้า ร่วมกันพัฒนา อุตสาหกรรมสีเขียว"



แบบ ปอ.1

คำขอขึ้นทะเบียน/ต่ออายุ/เปลี่ยนแปลงบุคลากร และชนิดสารมลพิษของห้องปฏิบัติการวิเคราะห์เอกชน

วันที่ 4 เดือน สิงหาคม พ.ศ. 2569

กองวิจัยและเตือนภัยมลพิษโรงงาน
รับที่ 3931/69
วันที่ ๑๑ ส.ค. ๒๕๖๙
เวลา 10.44 น.

เรียน อธิบดีกรมโรงงานอุตสาหกรรม

ข้าพเจ้า ☐ ผู้รับใบอนุญาตประกอบกิจการโรงงาน
☑ บริษัท/ห้างหุ้นส่วนจำกัด / เอแอลเอส แลบอราทอรี กรุ๊ป (ประเทศไทย) จำกัด

สถานที่ตั้งห้องปฏิบัติการ

เลขที่ 104 หมู่ที่ - ซอย พัฒนาการ 40 ถนนพัฒนาการ แขวงพัฒนาการ เขตสวนหลวง จังหวัด กรุงเทพฯ

รหัสไปรษณีย์ 10250 โทรศัพท์ 02-760-3060 E-mail tasanee.lakhakulporn@alsglobal.com

เลขทะเบียนห้องปฏิบัติการ ว-206

ได้รับทราบ ประกาศกรมโรงงานอุตสาหกรรม เรื่อง ห้องปฏิบัติการวิเคราะห์เอกชน พ.ศ. 2566 โดยตลอดแล้ว และยินยอมปฏิบัติตามประกาศฯ ทุกประการ และได้แนบเอกสารต่างๆ ตามรายการเอกสารประกอบการพิจารณา (แบบ ปอ.1-1) มาพร้อมนี้

รายการขอดำเนินการ

การดำเนินการ	จำนวนสารมลพิษ					
	น้ำเสีย/น้ำทิ้ง (รายการ)	น้ำใต้ดิน (รายการ)	อากาศ (รายการ)	สิ่งปฏิกูลหรือวัสดุที่ไม่ใช้แล้ว(รายการ)	ดิน (รายการ)	รวมทั้งสิ้น (รายการ)
☐ ขอขึ้นทะเบียนห้องปฏิบัติการวิเคราะห์เอกชน						
☑ ต่ออายุห้องปฏิบัติการวิเคราะห์เอกชน	60	130	28	35	125	378
☐ เปลี่ยนแปลงสารมลพิษที่วิเคราะห์ ○ เพิ่มสารมลพิษ ○ ยกเลิกสารมลพิษ						
☑ เปลี่ยนแปลงบุคลากร ✓ เพิ่มบุคลากร ✓ ยกเลิกบุคลากร	จำนวน 9 ราย (รายละเอียดตาม แบบ ปว.1) จำนวน 39 ราย (รายละเอียดตาม แบบ ปว.1-1)					
☐ ยกเลิกห้องปฏิบัติการวิเคราะห์เอกชน						
☐ อื่นๆ โปรดระบุ						

กลุ่มมาตรฐานวิธีการวิเคราะห์และสอบเทียบ และทะเบียนห้องปฏิบัติการ
รับที่ 635/69
วันที่ ๑๑ ส.ค. ๒๕๖๙
เวลา 8.52 น.

จึงเรียนมาเพื่อโปรดพิจารณา

ALS Laboratory Group (Thailand) Co., Ltd.

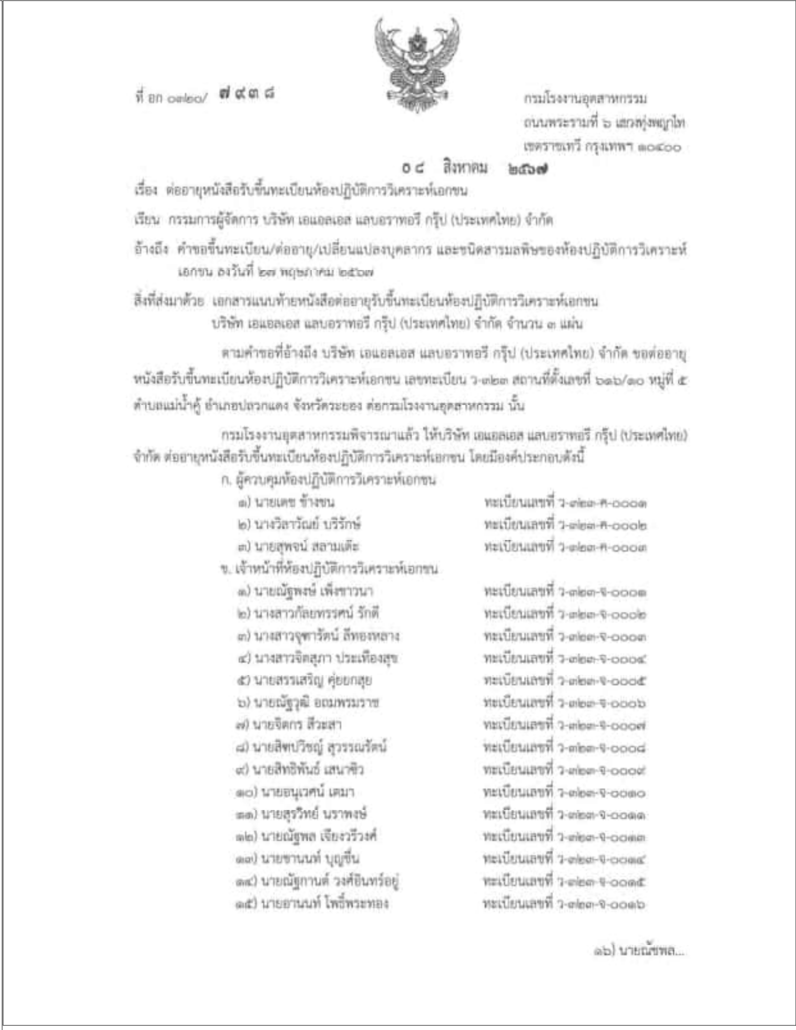
ลงชื่อ

(นางทัศนีย์ เลขากุลพร)
ผู้มีอำนาจลงนามแทนนิติบุคคล
ประทับตรา (ถ้ามี)

เรียน ทวจ.
เพื่อโปรดพิจารณาดำเนินการ

(นางสาวปัทมวรรณ คุณประเสริฐ)
ผู้อำนวยการกองวิจัยและเตือนภัยมลพิษโรงงาน

Rev.00 (01/2567) กรมโรงงานอุตสาหกรรม หน้า 1/1



ที่ อก ๐๓๒๐/ ๗๙๓๘

กรมโรงงานอุตสาหกรรม
ถนนพระรามที่ ๖ แขวงทุ่งพญาไท
เขตราชเทวี กรุงเทพฯ ๑๐๔๐๐

๐๘ สิงหาคม ๒๕๖๗

เรื่อง ต่ออายุหนังสือรับขึ้นทะเบียนห้องปฏิบัติการวิเคราะห์เอกชน

เรียน กรรมการผู้จัดการ บริษัท เอแอลเอส แลบอราทอรี กรุ๊ป (ประเทศไทย) จำกัด

อ้างถึง คำขอขึ้นทะเบียน/ต่ออายุ/เปลี่ยนแปลงบุคลากร และชนิดสารมลพิษของห้องปฏิบัติการวิเคราะห์เอกชน ลงวันที่ ๒๗ พฤษภาคม ๒๕๖๗

สิ่งที่ส่งมาด้วย เอกสารแนบท้ายหนังสือต่ออายุรับขึ้นทะเบียนห้องปฏิบัติการวิเคราะห์เอกชน บริษัท เอแอลเอส แลบอราทอรี กรุ๊ป (ประเทศไทย) จำกัด จำนวน ๓ แผ่น

ตามคำขอที่อ้างถึง บริษัท เอแอลเอส แลบอราทอรี กรุ๊ป (ประเทศไทย) จำกัด ขอต่ออายุหนังสือรับขึ้นทะเบียนห้องปฏิบัติการวิเคราะห์เอกชน เลขทะเบียน ว-๓๒๓ สถานที่ตั้งเลขที่ ๖๑๖/๑๐ หมู่ที่ ๕ ตำบลแม่น้ำคู้ อำเภอปลวกแดง จังหวัดระยอง ต่อกรมโรงงานอุตสาหกรรม นั้น

กรมโรงงานอุตสาหกรรมพิจารณาแล้ว ให้บริษัท เอแอลเอส แลบอราทอรี กรุ๊ป (ประเทศไทย) จำกัด ต่ออายุหนังสือรับขึ้นทะเบียนห้องปฏิบัติการวิเคราะห์เอกชน โดยมีองค์ประกอบดังนี้

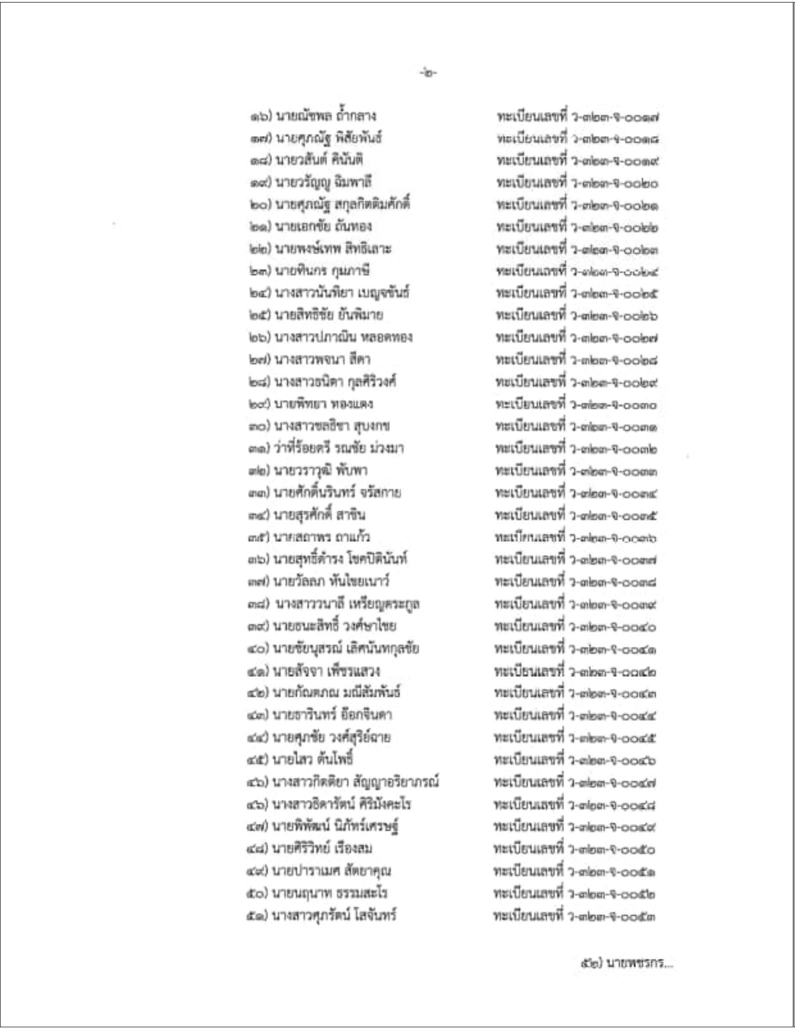
ก. ผู้ควบคุมห้องปฏิบัติการวิเคราะห์เอกชน

๑) นายเดช ช้างชน	ทะเบียนเลขที่ ว-๓๒๓-ค-๐๐๐๑
๒) นางวิลาวัณย์ บริรักษ์	ทะเบียนเลขที่ ว-๓๒๓-ค-๐๐๐๒
๓) นายสุพจน์ สลามเต๊ะ	ทะเบียนเลขที่ ว-๓๒๓-ค-๐๐๐๓

ข. เจ้าหน้าที่ห้องปฏิบัติการวิเคราะห์เอกชน

๑) นายณัฐพงษ์ เพ็งชาวนา	ทะเบียนเลขที่ ว-๓๒๓-จ-๐๐๐๑
๒) นางสาวกัลยทรรศน์ รักดี	ทะเบียนเลขที่ ว-๓๒๓-จ-๐๐๐๒
๓) นางสาวจุฑารัตน์ ลีทองหลาง	ทะเบียนเลขที่ ว-๓๒๓-จ-๐๐๐๓
๔) นางสาวจิตสุภา ประเทืองสุข	ทะเบียนเลขที่ ว-๓๒๓-จ-๐๐๐๔
๕) นายสรรเสริญ คุ้ยยกสุย	ทะเบียนเลขที่ ว-๓๒๓-จ-๐๐๐๕
๖) นายณัฐวุฒิ ยอมพรมราช	ทะเบียนเลขที่ ว-๓๒๓-จ-๐๐๐๖
๗) นายจิตกร ลี้วะสา	ทะเบียนเลขที่ ว-๓๒๓-จ-๐๐๐๗
๘) นายสิทธปวิชญ์ สุวรรณรัตน์	ทะเบียนเลขที่ ว-๓๒๓-จ-๐๐๐๘
๙) นายสิทธิพันธ์ เสนาพิว	ทะเบียนเลขที่ ว-๓๒๓-จ-๐๐๐๙
๑๐) นายอนุเวศน์ เดมา	ทะเบียนเลขที่ ว-๓๒๓-จ-๐๐๑๐
๑๑) นายสุรวิทย์ นราพงษ์	ทะเบียนเลขที่ ว-๓๒๓-จ-๐๐๑๑
๑๒) นายณัฐพล เจียงวรีวงศ์	ทะเบียนเลขที่ ว-๓๒๓-จ-๐๐๑๓
๑๓) นายชานนท์ บุญขึ้น	ทะเบียนเลขที่ ว-๓๒๓-จ-๐๐๑๔
๑๔) นายณัฐกานต์ วงศ์อินทร์อยู่	ทะเบียนเลขที่ ว-๓๒๓-จ-๐๐๑๕
๑๕) นายอานนท์ โพธิ์พระทอง	ทะเบียนเลขที่ ว-๓๒๓-จ-๐๐๑๖

๑๖) นายณัชพล...



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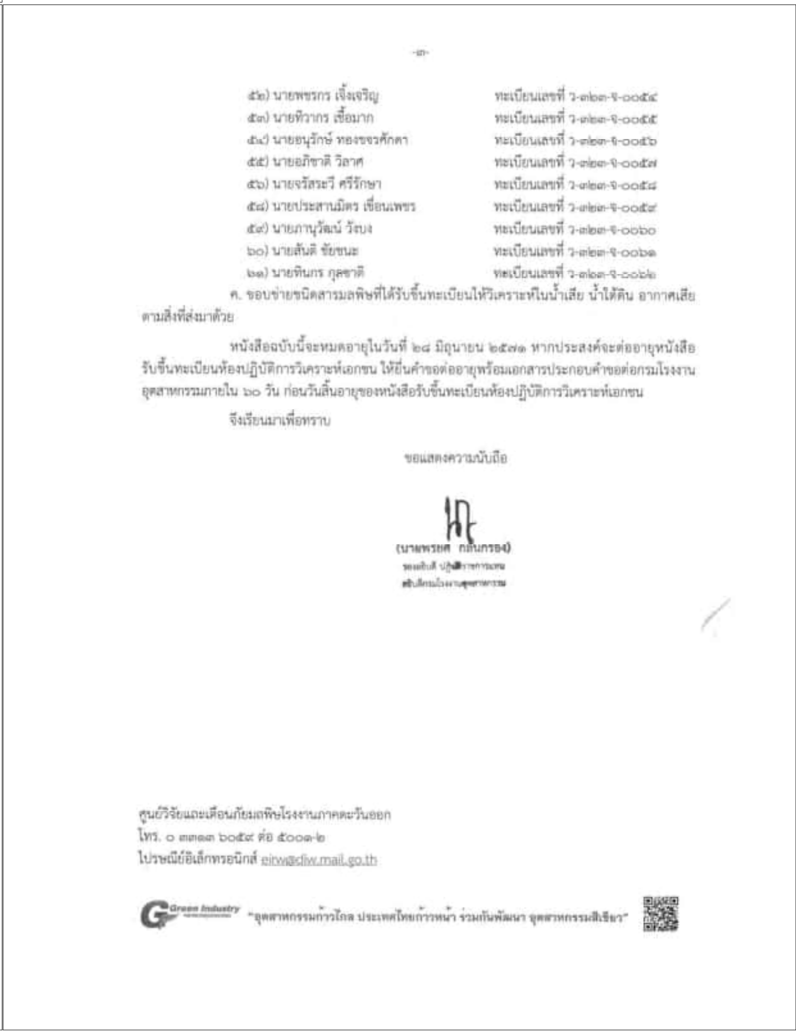
๑๖) นายณัชพล ถ้ำกลาง	ทะเบียนเลขที่ ว-๓๒๓-จ-๐๐๑๗
๑๗) นายศุภณัฐ พิสัยพันธ์	ทะเบียนเลขที่ ว-๓๒๓-จ-๐๐๑๘
๑๘) นายวสันต์ คินันติ	ทะเบียนเลขที่ ว-๓๒๓-จ-๐๐๑๙
๑๙) นายวรัญญู ฉิมพาลี	ทะเบียนเลขที่ ว-๓๒๓-จ-๐๐๒๐
๒๐) นายศุภณัฐ สกุลกิตติมศักดิ์	ทะเบียนเลขที่ ว-๓๒๓-จ-๐๐๒๑
๒๑) นายเอกชัย ถันทอง	ทะเบียนเลขที่ ว-๓๒๓-จ-๐๐๒๒
๒๒) นายพงษ์เทพ สิทธิเลาะ	ทะเบียนเลขที่ ว-๓๒๓-จ-๐๐๒๓
๒๓) นายทินกร กุมภาชี	ทะเบียนเลขที่ ว-๓๒๓-จ-๐๐๒๔
๒๔) นางสาวนันทิยา เบญจขันธ์	ทะเบียนเลขที่ ว-๓๒๓-จ-๐๐๒๕
๒๕) นายสิทธิชัย ยันพิมาย	ทะเบียนเลขที่ ว-๓๒๓-จ-๐๐๒๖
๒๖) นางสาวปภาณิน หลอดทอง	ทะเบียนเลขที่ ว-๓๒๓-จ-๐๐๒๗
๒๗) นางสาวพจนา สีดา	ทะเบียนเลขที่ ว-๓๒๓-จ-๐๐๒๘
๒๘) นางสาวธนิดา กุลศิริวงศ์	ทะเบียนเลขที่ ว-๓๒๓-จ-๐๐๒๙
๒๙) นายพิทยา ทองแดง	ทะเบียนเลขที่ ว-๓๒๓-จ-๐๐๓๐
๓๐) นางสาวชลธิชา สุบงกช	ทะเบียนเลขที่ ว-๓๒๓-จ-๐๐๓๑
๓๑) ว่าที่ร้อยตรี รณชัย ม่วงมา	ทะเบียนเลขที่ ว-๓๒๓-จ-๐๐๓๒
๓๒) นายวราวุฒิ พับพา	ทะเบียนเลขที่ ว-๓๒๓-จ-๐๐๓๓
๓๓) นายศักดิ์นรินทร์ จรัสกาย	ทะเบียนเลขที่ ว-๓๒๓-จ-๐๐๓๔
๓๔) นายสุรศักดิ์ สาชิน	ทะเบียนเลขที่ ว-๓๒๓-จ-๐๐๓๕
๓๕) นายสถาพร ถาแก้ว	ทะเบียนเลขที่ ว-๓๒๓-จ-๐๐๓๖
๓๖) นายสุทธิ์ดำรง โชคปิตินันท์	ทะเบียนเลขที่ ว-๓๒๓-จ-๐๐๓๗
๓๗) นายวัลลภ หันไชยเนาว์	ทะเบียนเลขที่ ว-๓๒๓-จ-๐๐๓๘
๓๘) นางสาววนาลี เหรียญตระกูล	ทะเบียนเลขที่ ว-๓๒๓-จ-๐๐๓๙
๓๙) นายธนะสิทธิ์ วงศ์ษาไชย	ทะเบียนเลขที่ ว-๓๒๓-จ-๐๐๔๐
๔๐) นายชัยนุสรณ์ เลิศนันทกุลชัย	ทะเบียนเลขที่ ว-๓๒๓-จ-๐๐๔๑
๔๑) นายสัจจา เพ็ชรแสวง	ทะเบียนเลขที่ ว-๓๒๓-จ-๐๐๔๒
๔๒) นายกัณตภณ มณีสัมพันธ์	ทะเบียนเลขที่ ว-๓๒๓-จ-๐๐๔๓
๔๓) นายธารินทร์ อ๊อกจินดา	ทะเบียนเลขที่ ว-๓๒๓-จ-๐๐๔๔
๔๔) นายศุภชัย วงศ์สุริย์ฉาย	ทะเบียนเลขที่ ว-๓๒๓-จ-๐๐๔๕
๔๕) นายไสว ต้นโพธิ์	ทะเบียนเลขที่ ว-๓๒๓-จ-๐๐๔๖
๔๖) นางสาวกิตติยา สัญญาอริยาภรณ์	ทะเบียนเลขที่ ว-๓๒๓-จ-๐๐๔๗
๔๖) นางสาวธิดารัตน์ ศิริมังคะไร	ทะเบียนเลขที่ ว-๓๒๓-จ-๐๐๔๘
๔๗) นายพิพัฒน์ นิภัทร์เศรษฐ์	ทะเบียนเลขที่ ว-๓๒๓-จ-๐๐๔๙
๔๘) นายศิริวิทย์ เรืองสม	ทะเบียนเลขที่ ว-๓๒๓-จ-๐๐๕๐
๔๙) นายปราเมศ สัตยาคุณ	ทะเบียนเลขที่ ว-๓๒๓-จ-๐๐๕๑
๕๐) นายนฤนาท ธรรมสะไร	ทะเบียนเลขที่ ว-๓๒๓-จ-๐๐๕๒
๕๑) นางสาวศุภรัตน์ ไสจันทร์	ทะเบียนเลขที่ ว-๓๒๓-จ-๐๐๕๓

๕๒) นายพชรกร...



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๕๒) นายพชรกร เจิ้งเจริญ	ทะเบียนเลขที่ ว-๓๒๓-จ-๐๐๕๔
๕๓) นายทิวากร เชื้อมาก	ทะเบียนเลขที่ ว-๓๒๓-จ-๐๐๕๕
๕๔) นายอนุรักษ์ ทองขจรศักดา	ทะเบียนเลขที่ ว-๓๒๓-จ-๐๐๕๖
๕๕) นายอภิชาติ วิลาศ	ทะเบียนเลขที่ ว-๓๒๓-จ-๐๐๕๗
๕๖) นายจรัสระวี ศรีรักษา	ทะเบียนเลขที่ ว-๓๒๓-จ-๐๐๕๘
๕๘) นายประสานมิตร เขื่อนเพชร	ทะเบียนเลขที่ ว-๓๒๓-จ-๐๐๕๙
๕๙) นายภานุวัฒน์ วัฒบง	ทะเบียนเลขที่ ว-๓๒๓-จ-๐๐๖๐
๖๐) นายสันติ ชัยชนะ	ทะเบียนเลขที่ ว-๓๒๓-จ-๐๐๖๑
๖๑) นายทินกร กุลชาติ	ทะเบียนเลขที่ ว-๓๒๓-จ-๐๐๖๒

ค. ขอบข่ายชนิดสารมลพิษที่ได้รับขึ้นทะเบียนให้วิเคราะห์ในน้ำเสีย น้ำใต้ดิน อากาศเสีย ตามสิ่งที่ส่งมาด้วย

หนังสือฉบับนี้จะหมดอายุในวันที่ ๒๘ มิถุนายน ๒๕๗๑ หากประสงค์จะต่ออายุหนังสือรับขึ้นทะเบียนห้องปฏิบัติการวิเคราะห์เอกชน ให้ยื่นคำขอต่ออายุพร้อมเอกสารประกอบคำขอต่อกรมโรงงานอุตสาหกรรมภายใน ๖๐ วัน ก่อนวันสิ้นอายุของหนังสือรับขึ้นทะเบียนห้องปฏิบัติการวิเคราะห์เอกชน

จึงเรียนมาเพื่อทราบ

ขอแสดงความนับถือ

(นายพรยศ กลั่นกรอง)
รองอธิบดี ปฏิบัติราชการแทน
อธิบดีกรมโรงงานอุตสาหกรรม

ศูนย์วิจัยและเตือนภัยมลพิษโรงงานภาคตะวันออก
โทร. ๐ ๓๓๑๓ ๖๐๕๙ ต่อ ๕๐๐๑-๒
ไปรษณีย์อิเล็กทรอนิกส์ eirw@diw.mail.go.th

Green Industry "อุตสาหกรรมก้าวไกล ประเทศไทยก้าวหน้า ร่วมกันพัฒนา อุตสาหกรรมสีเขียว"

เอกสารแนบท้ายหนังสือเปลี่ยนแปลงสารมลพิษของห้องปฏิบัติการวิเคราะห์เอกชน
บริษัท เอแอลเอส แลบอราทอรี กรุ๊ป (ประเทศไทย) จำกัด เลขทะเบียน ว-๓๒๓
ที่ อก ๐๓๒๐/ ๗ ๙ ๓ ๘ ลงวันที่ ๐ ๘ สิงหาคม ๒๕๖๗

ขอบข่ายสารมลพิษที่ได้รับขึ้นทะเบียนจากกรมโรงงานอุตสาหกรรม จำนวน ๒๔ รายการ

น้ำเสีย จำนวน 14 รายการ

ลำดับที่	สารมลพิษ	วิธีวิเคราะห์
1	Biochemical Oxygen Demand	1) 5-Day BOD Test, Membrane Electrode Method[2] 2) 5 Day BOD Test, Azide Modification Method[2]
2	Chemical Oxygen Demand	1) Open Reflux, Titrimetric Method[2] 2) Closed Reflux, Colorimetric Method[2] 3) Closed Reflux, Titrimetric Method[2]
3	Color	ADMI Weighted-Ordinate Spectrophotometric Method[2]
4	Cyanide	Distillation, Colorimetric Method[2]
5	Formaldehyde	Distillation, Colorimetric Method[1]
6	Free Chlorine	DPD Ferrous Titrimetric Method[2]
7	Oil and Grease	Liquid-Liquid, Partition-Gravimetric Method[2]
8	pH	Electrometric Method[2]
9	Phenols	1) Distillation, Chloroform Extraction Method[2] 2) Distillation, Direct Photometric Method[2]
10	Sulfide	ZnS Precipitation, Iodometric Method[2]
11	Temperature	Field Method[2]
12	Total Dissolved Solids	Dried at 180 °C[2]
13	Total Kjeldahl Nitrogen	Semi-Macro Kjeldahl Method[2]
14	Total Suspended Solids	Dried at 103-105 °C[2]

น้ำใต้ดิน จำนวน 3 รายการ

ลำดับที่	สารมลพิษ	วิธีวิเคราะห์
1	Cyanide	Distillation, Colorimetric Method[2]
2	pH	Electrometric Method[2]
3	Phenols	Distillation, Direct Photometric Method[2]

อากาศเสีย...

อากาศเสีย (ปล่องระบาย) จำนวน 7 รายการ

ลำดับที่	สารมลพิษ	วิธีวิเคราะห์
1	Carbon Monoxide	1) Sampling Bag, Non-Dispersive Infrared Method[5] 2) Instrumental Analyzer Method[9]
2	Hydrogen Sulfide	Absorption Sampling, Iodometric Method[3]
3	Opacity	Ringelmanns Method[3,4]
4	Oxide of Nitrogen	1) Absorption Sampling, Phenoldisulfonic Acid Method[8] 2) Instrumental Analyzer Method[10]
5	Sulfur Dioxide	1) Absorption Sampling, Barium-Thorin Titrimetric Acid Method[5] 2) Instrumental Analyzer Method[11]
6	Sulfuric Acid	Isokinetic Sampling, Barium – Titrimetric Method[6]
7	Total Suspended Particulate	Isokinetic Sampling, Gravimetric Method[7]

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ที่ อก ๐๓๒๐/ ๑ ๐ ๐ ๙ ๙

กรมโรงงานอุตสาหกรรม
ถนนพระรามที่ ๖ แขวงทุ่งพญาไท
เขตราชเทวี กรุงเทพฯ ๑๐๔๐๐

๐ ๔ ตุลาคม ๒๕๖๗

เรื่อง แก้ไขรายชื่อเจ้าหน้าที่ห้องปฏิบัติการวิเคราะห์เอกชน

เรียน กรรมการผู้จัดการ บริษัท เอแอลเอส แลบอราทอรี กรุ๊ป (ประเทศไทย) จำกัด

อ้างถึง หนังสือ บริษัท เอแอลเอส แลบอราทอรี กรุ๊ป (ประเทศไทย) จำกัด เลขที่ Env 2024/005
ลงวันที่ ๓๐ สิงหาคม ๒๕๖๗

ตามหนังสือที่อ้างถึง บริษัท เอแอลเอส แลบอราทอรี กรุ๊ป (ประเทศไทย) จำกัด ห้องปฏิบัติการวิเคราะห์เอกชน เลขทะเบียน ว-๓๒๓ สถานที่ตั้งเลขที่ ๖๑๖/๓๐ หมู่ที่ ๕ ตำบลแม่น้ำคู้ อำเภอปลวกแดง จังหวัดระยอง ขอแก้ไขชื่อเจ้าหน้าที่ห้องปฏิบัติการวิเคราะห์เอกชน เนื่องจากมีความคลาดเคลื่อน ความละเอียดแจ้งแล้ว นั้น

กรมโรงงานอุตสาหกรรม ได้รับทราบและดำเนินการแก้ไขรายชื่อเจ้าหน้าที่ห้องปฏิบัติการวิเคราะห์เอกชน จำนวน ๕ ราย ตามที่แจ้งเรียบร้อยแล้ว เป็นดังนี้

ลำดับที่ ๒๗ นางพจนา สีดา
ลำดับที่ ๒๘ นางสาวธนิดา กุลสุริวงศ์
ลำดับที่ ๓๐ นางชลธิชา สุบงกช
ลำดับที่ ๓๖ นายสุทธิ์ดำรงค์ โชคปิตินันท์
ลำดับที่ ๔๒ นายกันตภณ มณีสัมพันธ์

จึงเรียนมาเพื่อทราบ

ขอแสดงความนับถือ

(นายพรยศ กลั่นกรอง)
รองอธิบดี ปฏิบัติราชการแทน
อธิบดีกรมโรงงานอุตสาหกรรม

ศูนย์วิจัยและเตือนภัยมลพิษโรงงานภาคตะวันออก
โทร. ๐ ๓๓๓๓ ๖๐๕๙ ต่อ ๕๐๐๑-๒
ไปรษณีย์อิเล็กทรอนิกส์ eirw@diw.mail.go.th

ที่ อก ๐๓๑๐(๓)/ ๔๒๔๖

กรมโรงงานอุตสาหกรรม
ถนนพระรามที่ ๖ แขวงทุ่งพญาไท
เขตราชเทวี กรุงเทพฯ ๑๐๔๐๐

๒๐ พฤษภาคม ๒๕๖๘

เรื่อง ยกเลิกบุคลากรของห้องปฏิบัติการวิเคราะห์

เรียน กรรมการผู้จัดการ บริษัท เอแอลเอส แลบอราทอรี กรุ๊ป (ประเทศไทย) จำกัด

อ้างถึง คำขอขึ้นทะเบียน/ต่ออายุ/เปลี่ยนแปลงบุคลากร และชนิดสารมลพิษของห้องปฏิบัติการวิเคราะห์เอกชน ลงวันที่ ๑๐ เมษายน ๒๕๖๘

ตามคำขอที่อ้างถึง บริษัท เอแอลเอส แลบอราทอรี กรุ๊ป (ประเทศไทย) จำกัด ห้องปฏิบัติการวิเคราะห์เอกชน เลขทะเบียน ว-๓๒๓ สถานที่ตั้งเลขที่ ๖๑๖/๑๐ หมู่ที่ ๕ ตำบลแม่น้ำคู้ อำเภอปลวกแดง จังหวัดระยอง ขอยกเลิกบุคลากร ความละเอียดแจ้งแล้ว นั้น

กรมโรงงานอุตสาหกรรมพิจารณาแล้ว ให้ยกเลิกเจ้าหน้าที่ห้องปฏิบัติการวิเคราะห์เอกชน จำนวน ๑ ราย ได้แก่ นายปรานเมศ สัตยาคุณ ทะเบียนเลขที่ ว-๓๒๓-จ-๐๐๕๓

จึงเรียนมาเพื่อทราบ

ขอแสดงความนับถือ

(นายประสม ดำรงพงษ์)
ผู้อำนวยการกองวิจัยและเตือนภัยมลพิษโรงงาน
ปฏิบัติราชการแทนอธิบดีกรมโรงงานอุตสาหกรรม

ศูนย์วิจัยและเตือนภัยมลพิษโรงงานภาคตะวันออก
โทร. ๐ ๓๓๓๓ ๖๐๕๙ ต่อ ๕๐๐๑-๒
ไปรษณีย์อิเล็กทรอนิกส์ eirw@diw.mail.go.th

Green Industry "อุตสาหกรรมก้าวไกล ประเทศไทยก้าวหน้า ร่วมกันพัฒนา อุตสาหกรรมสีเขียว"

ที่ อก ๐๓๑๐(๓)/ ๕๔๐๙

กรมโรงงานอุตสาหกรรม
ถนนพระรามที่ ๖ แขวงทุ่งพญาไท
เขตราชเทวี กรุงเทพฯ ๑๐๔๐๐

๒๗ พฤษภาคม ๒๕๖๘

เรื่อง เปลี่ยนแปลงชื่อ-สกุลบุคลากรของห้องปฏิบัติการวิเคราะห์

เรียน กรรมการผู้จัดการ บริษัท เอแอลเอส แลบอราทอรี กรุ๊ป (ประเทศไทย) จำกัด

อ้างถึง คำขอขึ้นทะเบียน/ต่ออายุ/เปลี่ยนแปลงบุคลากร และชนิดสารมลพิษของห้องปฏิบัติการวิเคราะห์เอกชน ลงวันที่ ๑๕ พฤษภาคม ๒๕๖๘

ตามคำขอที่อ้างถึง บริษัท เอแอลเอส แลบอราทอรี กรุ๊ป (ประเทศไทย) จำกัด ห้องปฏิบัติการวิเคราะห์เอกชน เลขทะเบียน ว-๓๒๓ สถานที่ตั้งเลขที่ ๖๑๖/๑๐ หมู่ที่ ๕ ตำบลแม่น้ำคู้ อำเภอปลวกแดง จังหวัดระยอง ขอเปลี่ยนแปลงชื่อ-สกุลบุคลากร ความละเอียดแจ้งแล้ว นั้น

กรมโรงงานอุตสาหกรรมพิจารณาแล้ว ให้เปลี่ยนแปลงชื่อ-สกุลบุคลากร จำนวน ๑ ราย จากนายธนะสิทธิ์ วงศ์ษาไชย เป็น นายอมลวิชญ์ วงศ์ษาไชย

จึงเรียนมาเพื่อทราบ

ขอแสดงความนับถือ

(นายประสม ดำรงพงษ์)
ผู้อำนวยการกองวิจัยและเตือนภัยมลพิษโรงงาน
ปฏิบัติราชการแทนอธิบดีกรมโรงงานอุตสาหกรรม

ศูนย์วิจัยและเตือนภัยมลพิษโรงงานภาคตะวันออก
โทร. ๐ ๓๓๓๓ ๖๐๕๙ ต่อ ๕๐๐๑-๒
ไปรษณีย์อิเล็กทรอนิกส์ eirw@diw.mail.go.th

Green Industry "อุตสาหกรรมก้าวไกล ประเทศไทยก้าวหน้า ร่วมกันพัฒนา อุตสาหกรรมสีเขียว"

ที่ อก ๐๓๑๐(๓)/ ๙๗๖๔

กรมโรงงานอุตสาหกรรม
ถนนพระรามที่ ๖ แขวงทุ่งพญาไท
เขตราชเทวี กรุงเทพฯ ๑๐๔๐๐

๐๒ ธันวาคม ๒๕๖๘

เรื่อง เปลี่ยนแปลงสารมลพิษที่วิเคราะห์

เรียน กรรมการผู้จัดการ บริษัท เอแอลเอส แลบอราทอรี กรุ๊ป (ประเทศไทย) จำกัด

อ้างถึง คำขอขึ้นทะเบียน/ต่ออายุ/เปลี่ยนแปลงบุคลากร และชนิดสารมลพิษของห้องปฏิบัติการวิเคราะห์เอกชน ลงวันที่ ๓๑ ตุลาคม ๒๕๖๘

สิ่งที่ส่งมาด้วย เอกสารแนบท้ายหนังสือเปลี่ยนแปลงสารมลพิษที่วิเคราะห์ บริษัท เอแอลเอส แลบอราทอรี กรุ๊ป (ประเทศไทย) จำกัด จำนวน ๒ แผ่น

ตามคำขอที่อ้างถึง บริษัท เอแอลเอส แลบอราทอรี กรุ๊ป (ประเทศไทย) จำกัด ห้องปฏิบัติการวิเคราะห์เอกชน เลขทะเบียน ว-๓๒๓ สถานที่ตั้งเลขที่ ๖๑๖/๑๐ หมู่ที่ ๕ ตำบลแม่น้ำคู้ อำเภอปลวกแดง จังหวัดระยอง ขอเปลี่ยนแปลงสารมลพิษที่วิเคราะห์ ต่อกรมโรงงานอุตสาหกรรม นั้น

กรมโรงงานอุตสาหกรรมพิจารณาแล้ว ให้บริษัท เอแอลเอส แลบอราทอรี กรุ๊ป (ประเทศไทย) จำกัด เพิ่มขอบข่ายชนิดสารมลพิษที่วิเคราะห์ในน้ำเสีย และน้ำใต้ดิน ตามสิ่งที่ส่งมาด้วย

อนึ่ง หนังสือฉบับนี้จะสิ้นอายุพร้อมหนังสือต่ออายุรับขึ้นทะเบียนห้องปฏิบัติการวิเคราะห์เอกชน ในวันที่ ๒๘ มิถุนายน ๒๕๗๓

จึงเรียนมาเพื่อทราบ

ขอแสดงความนับถือ

(นางสาวปัทมวรรณ คุณประเสริฐ)
ผู้อำนวยการกองวิจัยและเตือนภัยมลพิษโรงงาน
ปฏิบัติราชการแทนอธิบดีกรมโรงงานอุตสาหกรรม

กองวิจัยและเตือนภัยมลพิษโรงงาน
ศูนย์วิจัยและเตือนภัยมลพิษโรงงานภาคตะวันออก
โทร. ๐ ๓๓๓๓ ๖๐๕๙ ต่อ ๕๐๐๑-๒
ไปรษณีย์อิเล็กทรอนิกส์ eirw@diw.mail.go.th

Green Industry "อุตสาหกรรมก้าวไกล ประเทศไทยก้าวหน้า ร่วมกันพัฒนา อุตสาหกรรมสีเขียว"

เอกสารแนบท้ายหนังสือเปลี่ยนแปลงสารมลพิษที่วิเคราะห์
บริษัท เอแอลเอส แลบอราทอรี กรุ๊ป (ประเทศไทย) จำกัด เลขทะเบียน ว-๓๒๓
ที่ อก ๐๓๑๐(๓)/ ๙๗๖๔ ลงวันที่ ๐๒ ธันวาคม ๒๕๖๘

ขอบข่ายสารมลพิษที่ได้รับขึ้นทะเบียนจากกรมโรงงานอุตสาหกรรม จำนวน ๒๓ รายการ

น้ำเสีย จำนวน 13 รายการ

ลำดับที่	สารมลพิษ	วิธีวิเคราะห์
1	Arsenic	Digestion, Inductively Coupled Plasma Method
2	Barium	Digestion, Inductively Coupled Plasma Method
3	Cadmium	Digestion, Inductively Coupled Plasma Method
4	Chromium	Digestion, Inductively Coupled Plasma Method
5	Copper	Digestion, Inductively Coupled Plasma Method
6	Hexavalent Chromium	Colorimetric Method
7	Lead	Digestion, Inductively Coupled Plasma Method
8	Manganese	Digestion, Inductively Coupled Plasma Method
9	Mercury	Digestion, Cold-Vapor Atomic Absorption Spectrometric Method
10	Nickel	Digestion, Inductively Coupled Plasma Method
11	Selenium	Digestion, Inductively Coupled Plasma Method
12	Trivalent Chromium	Calculation
13	Zinc	Digestion, Inductively Coupled Plasma Method

น้ำใต้ดิน จำนวน 20 รายการ

ลำดับที่	สารมลพิษ	วิธีวิเคราะห์
1	Aluminum	Digestion, Inductively Coupled Plasma Method
2	Antimony	Digestion, Inductively Coupled Plasma Method
3	Arsenic	Digestion, Inductively Coupled Plasma Method
4	Barium	Digestion, Inductively Coupled Plasma Method
5	Beryllium	Digestion, Inductively Coupled Plasma Method
6	Cadmium	Digestion, Inductively Coupled Plasma Method
7	Chromium	Digestion, Inductively Coupled Plasma Method
8	Chromium (III)	Calculation
9	Chromium (VI)	Colorimetric Method
10	Copper	Digestion, Inductively Coupled Plasma Method

11 Lead ...

ลำดับที่	สารมลพิษ	วิธีวิเคราะห์
11	Iron	Digestion, Inductively Coupled Plasma Method
12	Lead	Digestion, Inductively Coupled Plasma Method
13	Manganese	Digestion, Inductively Coupled Plasma Method
14	Mercury	Digestion Cold-Vapor Atomic Absorption Spectrometric Method
15	Molybdenum	Digestion, Inductively Coupled Plasma Method
16	Nickel	Digestion, Inductively Coupled Plasma Method
17	Selenium	Digestion, Inductively Coupled Plasma Method
18	Silver	Digestion, Inductively Coupled Plasma Method
19	Vanadium	Digestion, Inductively Coupled Plasma Method
20	Zinc	Digestion, Inductively Coupled Plasma Method

เอกสารอ้างอิง

APHA, AWWA, WEF. **Standard Methods for the Examination of Water and Wastewater**. 24th ed. Washington, DC: APHA, 2023.

ที่ อก ๐๓๑๐(๓)/ ๑๗๗๘

กรมโรงงานอุตสาหกรรม
ถนนพระรามที่ ๖ แขวงทุ่งพญาไท
เขตราชเทวี กรุงเทพฯ ๑๐๔๐๐

๐๖ มีนาคม ๒๕๖๙

เรื่อง เปลี่ยนแปลงบุคลากรของห้องปฏิบัติการวิเคราะห์

เรียน กรรมการผู้จัดการ บริษัท เอแอลเอส แลบอราทอรี กรุ๊ป (ประเทศไทย) จำกัด

อ้างถึง คำขอขึ้นทะเบียน/ต่ออายุ/เปลี่ยนแปลงบุคลากร และชนิดสารมลพิษของห้องปฏิบัติการวิเคราะห์เอกชน ลงวันที่ ๖ กุมภาพันธ์ ๒๕๖๙

ตามคำขอที่อ้างถึง บริษัท เอแอลเอส แลบอราทอรี กรุ๊ป (ประเทศไทย) จำกัด ห้องปฏิบัติการวิเคราะห์เอกชน เลขทะเบียน ว-๓๒๓ สถานที่ตั้งเลขที่ ๖๑๖/๓๐ หมู่ที่ ๕ ตำบลแม่น้ำคู้ อำเภอปลวกแดง จังหวัดระยอง ขอเปลี่ยนแปลงบุคลากร ความละเอียดแจ้งแล้ว นั้น

กรมโรงงานอุตสาหกรรมพิจารณาแล้ว ให้เพิ่มเจ้าหน้าที่ห้องปฏิบัติการวิเคราะห์เอกชน จำนวน ๗ ราย ได้แก่

๑) นายอนวัช คงปลิก	ทะเบียนเลขที่ ว-๓๒๓-จ-๐๐๖๓
๒) นายธนาธิป อิติวุฒตา	ทะเบียนเลขที่ ว-๓๒๓-จ-๐๐๖๔
๓) นายเฉลิมชัย บุญชุบ	ทะเบียนเลขที่ ว-๓๒๓-จ-๐๐๖๕
๔) นางสาววิจิตรา งามเสงี่ยม	ทะเบียนเลขที่ ว-๓๒๓-จ-๐๐๖๖
๕) นางสาวลลิตา คำสมัย	ทะเบียนเลขที่ ว-๓๒๓-จ-๐๐๖๗
๖) นางสาวปทิตตา ชูตินันท์	ทะเบียนเลขที่ ว-๓๒๓-จ-๐๐๖๘
๗) นายปฏิญญา ปานทองทา	ทะเบียนเลขที่ ว-๓๒๓-จ-๐๐๖๙

อนึ่ง หนังสือฉบับนี้จะสิ้นอายุพร้อมหนังสือต่ออายุรับขึ้นทะเบียนห้องปฏิบัติการวิเคราะห์เอกชน ในวันที่ ๒๘ มิถุนายน ๒๕๗๑

จึงเรียนมาเพื่อทราบ

ขอแสดงความนับถือ

(นายศิระ จันทร์เฉิด)
นักวิทยาศาสตร์เชี่ยวชาญ รักษาราชการแทน
ผู้อำนวยการกองวิจัยและเตือนภัยมลพิษโรงงาน
ปฏิบัติราชการแทนอธิบดีกรมโรงงานอุตสาหกรรม

กองวิจัยและเตือนภัยมลพิษโรงงาน
ศูนย์วิจัยและเตือนภัยมลพิษโรงงานภาคตะวันออก
โทร. ๐ ๓๓๑๓ ๖๐๕๙ ต่อ ๕๐๐๑-๒
ไปรษณีย์อิเล็กทรอนิกส์ eirw@diw.mail.go.th

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✉ bangkok@alsglobal.com

ALS Line Official
ID: @alsthailand

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