
ลักษณะน้ำทิ้งที่ผ่านการบำบัดจากระบบบำบัดน้ำเสีย
ส่วนกลางของโครงการ (Holding Pond)



Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
3375, Phana Nikom, Nikom Phatthana, Rayong Thailand 21180
P/O :
Project Name :
Project Location : WHA Rayong 36

TESTING
No.0042
Lot ID: 268153
Date Received : Feb 10, 2026
Date Reported : Feb 17, 2026
Report Number : J495850-1

Page 1 of 4

Sample Number 268153-1
Sample Date Feb 10, 2026 2:48 PM
Sample Description Wastewater
Location WHA Rayong 36 : Holding Pond
Date Analysis Commenced Feb 10, 2026
Condition of Sample Contained in one amber glass bottle and eleven plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property Yellow, some odour, solid and turbid

Analyte	Unit	LOD	LOQ (LOD)	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	0.06	≤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
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-G 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	0.06	≤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

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Approved by

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

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NIGHT SOLUTIONS PRIORITY PLAIN PAPER

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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
3375, Phana Nikom, Nikom Phatthana, Rayong Thailand 21180
P/O :
Project Name :
Project Location : WHA Rayong 36

TESTING
No.0042
Lot ID: 268153
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Page 2 of 4

Sample Number 268153-1
Sample Date Feb 10, 2026 2:48 PM
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Location WHA Rayong 36 : Holding Pond
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Physical Property Yellow, some odour, solid and turbid

Analyte	Unit	LOD	LOQ (LOD)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Color (at pH 7.0)	ADMT	-	5	28	≤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	<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, D	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	0.01	≤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

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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
3375, Phana Nikom, Nikom Phatthana, Rayong Thailand 21180
P/O :
Project Name :
Project Location : WHA Rayong 36

TESTING
No.0042
Lot ID: 268153
Date Received : Feb 10, 2026
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Report Number : J495850-1

Page 2 of 4

Sample Number 268153-1
Sample Date Feb 10, 2026 2:48 PM
Sample Description Wastewater
Location WHA Rayong 36 : Holding Pond
Date Analysis Commenced Feb 10, 2026
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Physical Property Yellow, some odour, solid and turbid

Analyte	Unit	LOD	LOQ (LOD)	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	0.06	≤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	0.08	≤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	9.7	≤15	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	43	≤100	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Rayong
Color (at Original pH)	ADMT	-	5	28	≤300	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2120 F	Rayong

Technical Management

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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
3375, Phana Nikom, Nikom Phatthana, Rayong Thailand 21180
P/O :
Project Name :
Project Location : WHA Rayong 36

TESTING
No.0009
Lot ID: 268153
Date Received : Feb 10, 2026
Date Reported : Feb 17, 2026
Report Number : 3495850-2

Page 1 of 2

Sample Number 268153-1
Sample Date Feb 10, 2026 2:48 PM
Sample Description Wastewater
Location WHA Rayong 36 : Holding Pond
Date Analysis Commenced Feb 10, 2026
Condition of Sample Contained in one amber glass bottle and eleven plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property Yellow, some odour, solid and turbid

Analyte	Unit	LOD	LOQ (LOD)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Aluminium *	mg/L	0.02	0.05	0.06	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3120 B, 3030 F	Rayong
Iron *	mg/L	0.005	0.01	0.10	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3120 B, 3030 F	Rayong
Silver *	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
Microbiological Testing							
Fecal Coliform	MPN/100mL	-	-	1700.0	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 9221 B, E	Bangkok
Total Coliform	MPN/100mL	-	-	4900.0	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	0.05	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
BOD (5 days at 20 degree C) Soluble *	mg/L	-	2.0	<2.0	No Standard	In-house method based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5210 B	Rayong

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Sithichok Thongnuen
Scientist (3)

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NIGHT SOLUTIONS NIGHT PAIN FIGHTER
0207-020 EMAIL I.Q@wscs.ac.th (7:00PM)



Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
3375, Phana Nikom, Nikom Phatthana, Rayong Thailand 21180
P/O :
Project Name :
Project Location : WHA Rayong 36

Sample Number 268153-1
Sample Date Feb 10, 2026 2:48 PM
Sample Description Wastewater
Location WHA Rayong 36 : Holding Pond
Date Analysis Commenced Feb 10, 2026
Condition of Sample Contained in one amber glass bottle and eleven plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property Yellow, some odour, solid and turbid

Analyte	Unit	LOD	LOQ (LOD)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Conductivity at 25 Degree C *	micromhos/cm	-	0.5	837	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2510 B	Rayong
Dissolved Oxygen *	mg/L	-	0.1	8.8	≥4	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500-O (G)	Rayong
Nitrate as N *	mg/L	0.015	0.05	23.1	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500-NO3 (E)	Rayong
Salinity *	ppt	-	0.1	0.4	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2510 B	Rayong
Volatile Matter in Suspended Solids *	mg/L	-	5	<5	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 (D, E)	Bangkok

Guideline : Notification of the Ministry of Natural Resource and Environment Amendment details report of Environmental Impact Assessment Report of WHA Rayong 36 Company Limited.
Sampling By : Chainurorn Lettinnakunhai

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

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NIGHT SOLUTIONS NIGHT PAIN FIGHTER
0207-020 EMAIL I.Q@wscs.ac.th (7:00PM)



Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
3375, Phana Nikom, Nikom Phatthana, Rayong Thailand 21180
P/O :
Project Name :
Project Location : WHA Rayong 36

TESTING
No.0042
Lot ID: 2616342
Date Received : Mar 09, 2026
Date Reported : Mar 16, 2026
Report Number : 3512632-1

Page 1 of 4

Sample Number 2616342-1
Sample Date Mar 09, 2026 2:45 PM
Sample Description Wastewater
Location WHA Rayong 36 : Holding Pond
Date Analysis Commenced Mar 09, 2026
Condition of Sample Contained in one amber glass bottle and eleven plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property Yellow, some odour, solid and no turbid

Analyte	Unit	LOD	LOQ (LOD)	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	0.06	≤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
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
Manganese *	mg/L	0.001	0.002	0.05	≤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

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Approved by

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NIGHT SOLUTIONS NIGHT PAIN FIGHTER
0207-020 EMAIL I.Q@wscs.ac.th (10:00PM)



Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
3375, Phana Nikom, Nikom Phatthana, Rayong Thailand 21180
P/O :
Project Name :
Project Location : WHA Rayong 36

Sample Number 2616342-1
Sample Date Mar 09, 2026 2:45 PM
Sample Description Wastewater
Location WHA Rayong 36 : Holding Pond
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Physical Property Yellow, some odour, solid and no turbid

Analyte	Unit	LOD	LOQ (LOD)	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 (H)	Rayong
Nickel *	mg/L	0.002	0.005	0.05	≤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	0.07	≤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	2.9	≤15	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	30	≤100	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Rayong
Color (at Original pH)	ADPH	-	5	23	≤300	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2120 F	Rayong

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NIGHT SOLUTIONS NIGHT PAIN FIGHTER
0207-020 EMAIL I.Q@wscs.ac.th (10:00PM)



Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
3375, Phana Nikom, Nikom Phatthana, Rayong Thailand 21180

P/O :
Project Name :
Project Location : WHA Rayong 36

TESTING
No.0042
Lot ID: 2616342
Date Received : Mar 09, 2026
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Report Number : 3512632-1

Page 3 of 4

Sample Number	2616342-1					
Sample Date	Mar 09, 2026 2:45 PM					
Sample Description	Wastewater					
Location	WHA Rayong 36 : Holding Pond					
Date Analysis Commenced	Mar 09, 2026					
Condition of Sample	Contained in one amber glass bottle and eleven 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
Water Testing						
Color (at pH 7.0)	ADME	-	5	21	≤300	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2120 F
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)
Formaldehyde	mg/L	0.03	0.1	<0.1	≤1.0	Wastewater analysis manual, Environmental Engineering Association of Thailand, 4th ed. 2594
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
pH at 25 degree C	-	-	-	7.1	5.5-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-H (B)
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
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)
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)

Technical Management

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Photchana Seeda
Scientist (4)
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Approved by

Dej Chongchon

Senior Manager
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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
3375, Phana Nikom, Nikom Phatthana, Rayong Thailand 21180

P/O :
Project Name :
Project Location : WHA Rayong 36

Lot ID: 2616342
Date Received : Mar 09, 2026
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Page 1 of 2

Sample Number	2616342-1					
Sample Date	Mar 09, 2026 2:45 PM					
Sample Description	Wastewater					
Location	WHA Rayong 36 : Holding Pond					
Date Analysis Commenced	Mar 09, 2026					
Condition of Sample	Contained in one amber glass bottle and eleven 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
Metals Testing						
Aluminium	mg/L	0.02	0.05	0.16	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3120 B, 3030 F
Iron	mg/L	0.005	0.01	0.15	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3120 B, 3030 F
Silver	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
Microbiological Testing						
Fecal Coliform	MPN/100mL	-	-	490.0	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 9221 B, E
Total Coliform	MPN/100mL	-	-	7900.0	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 9221 B
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)
BOD (5 days at 20 degree C) Soluble	mg/L	-	2.0	<2.0	No Standard	In-house method based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B

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

Approved by

Photchana S

Photchana Seeda
Scientist (4)

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NIGHT SOLUTIONS PRIORITY 24/7

L:\Reports_ML\3512632-2



Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
3375, Phana Nikom, Nikom Phatthana, Rayong Thailand 21180

P/O :
Project Name :
Project Location : WHA Rayong 36

TESTING
No.0042
Lot ID: 2616342
Date Received : Mar 09, 2026
Date Reported : Mar 16, 2026
Report Number : 3512632-1

Page 4 of 4

Sample Number	2616342-1					
Sample Date	Mar 09, 2026 2:45 PM					
Sample Description	Wastewater					
Location	WHA Rayong 36 : Holding Pond					
Date Analysis Commenced	Mar 09, 2026					
Condition of Sample	Contained in one amber glass bottle and eleven 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
Water Testing						
Temperature *	Degree C	-	-	32.5	≤40	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2530 B
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	472	≤2300	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C
Total Kjeldahl Nitrogen as N	mg/L	-	1.0	3.2	≤100	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-Norg (C), part 4540 (D)
Total Suspended Solids Dried from 103-105 degree C	mg/L	-	5	6	≤50	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

Guideline : Notification of the Ministry of Natural Resource and Environment and Amendment details report of Environmental Impact Assessment Report of WHA Rayong 36 Company Limited.
Sampling By : Chaisorn Lertnathakunchai วศอ๙๙๙๙๙ ๖-323-๙-0041

Remark :

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

Technical Management

Photchana S

Photchana Seeda
Scientist (4)
วศอ๙๙๙๙๙๙ ๖-323-๙-0028

Approved by

Dej Chongchon

Senior Manager
วศอ๙๙๙๙๙๙ ๖-323-๙-0001

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

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NIGHT SOLUTIONS PRIORITY 24/7

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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
3375, Phana Nikom, Nikom Phatthana, Rayong Thailand 21180

P/O :
Project Name :
Project Location : WHA Rayong 36

Lot ID: 2616342
Date Received : Mar 09, 2026
Date Reported : Mar 16, 2026
Report Number : 3512632-2

Page 2 of 2

Sample Number	2616342-1					
Sample Date	Mar 09, 2026 2:45 PM					
Sample Description	Wastewater					
Location	WHA Rayong 36 : Holding Pond					
Date Analysis Commenced	Mar 09, 2026					
Condition of Sample	Contained in one amber glass bottle and eleven 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
Water Testing						
Conductivity at 25 Degree C	micromhos/cm	-	0.5	759	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2530 B
Dissolved Oxygen	mg/L	-	0.1	5.6	≥4	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-O (G)
Nitrate as N	mg/L	0.015	0.05	19.0	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-NO3 (E)
Salinity	ppt	-	0.1	0.4	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2530 B
Volatile Matter in Suspended Solids	mg/L	-	5	<5	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 (D, E)

Guideline : Notification of the Ministry of Natural Resource and Environment and Amendment details report of Environmental Impact Assessment Report of WHA Rayong 36 Company Limited.
Sampling By : Chaisorn Lertnathakunchai

Remark :

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

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

Approved by

Photchana S

Photchana Seeda
Scientist (4)

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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
3375, Phana Nikom, Nikom Phatthana, Rayong Thailand 21180
P/O :
Project Name :
Project Location : WHA Rayong 36

Lot ID: 2627038
Date Received : Mar 27, 2026
Date Reported : Apr 03, 2026
Report Number : 3537774-1

Page 1 of 1

Sample Number 2627038-1
Sample Date Mar 09, 2026 2:45 PM
Sample Description Wastewater
Location WHA Rayong 36 : Holding Pond
Date Analysis Commenced Mar 30, 2026
Condition of Sample Contained in one plastic bottle, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property Yellow, some odour, solid and no turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Anionic Surfactant as MBAS	mg/L	0.015	0.05	0.22	No Standard	Based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5540 B, C	Rayong

Guideline : Notification of the Ministry of Natural Resource and Environment and Amendment details report of Environmental Impact Assessment Report of WHA Rayong 36 Company Limited.
Sampling By : Chansorn Lermitthakulchai

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

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

Approved by

Summon C.
Summon Chaiuangnunt
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NIGHT SOLUTIONS NIGHT PAIN FIGHTER
0217-422 0462 3/26/2026_RL-01 (14/03/26)



Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
3375, Phana Nikom, Nikom Phatthana, Rayong Thailand 21180
P/O :
Project Name :
Project Location : WHA Rayong 36

TESTING
No.0042
Lot ID: 2625869
Date Received : Apr 06, 2026
Date Reported : Apr 16, 2026
Report Number : 353H956-1

Page 1 of 4

Sample Number 2625869-1
Sample Date Apr 06, 2026 2:43 PM
Sample Description Wastewater
Location WHA Rayong 36 : Holding Pond
Date Analysis Commenced Apr 06, 2026
Condition of Sample Contained in one amber glass bottle and eleven 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
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-C1 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	0.05	≤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

Photchana S.
Photchana Seada
Scientist (4)
วศอธรรมาภรณ์ 3-323-4-0028

Approved by

D. Chongchon
Dej Chongchon
Senior Manager
วศอธรรมาภรณ์ 3-323-4-0001

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Life Sciences www.alsglobal.com
NIGHT SOLUTIONS NIGHT PAIN FIGHTER
0217-422 0462 3/26/2026_RL-01 (14/03/26)



Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
3375, Phana Nikom, Nikom Phatthana, Rayong Thailand 21180
P/O :
Project Name :
Project Location : WHA Rayong 36

TESTING
No.0042
Lot ID: 2625869
Date Received : Apr 06, 2026
Date Reported : Apr 16, 2026
Report Number : 353H956-1

Page 2 of 4

Sample Number 2625869-1
Sample Date Apr 06, 2026 2:43 PM
Sample Description Wastewater
Location WHA Rayong 36 : Holding Pond
Date Analysis Commenced Apr 06, 2026
Condition of Sample Contained in one amber glass bottle and eleven 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	0.05	≤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	0.06	≤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	9.9	≤15	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	35	≤100	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Rayong
Color (at Original pH)	ADPH	-	5	22	≤300	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2120 F	Rayong

Technical Management

Photchana S.
Photchana Seada
Scientist (4)
วศอธรรมาภรณ์ 3-323-4-0028

Approved by

D. Chongchon
Dej Chongchon
Senior Manager
วศอธรรมาภรณ์ 3-323-4-0001

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

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NIGHT SOLUTIONS NIGHT PAIN FIGHTER
0217-422 0462 3/26/2026_RL-01 (14/03/26)



Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
3375, Phana Nikom, Nikom Phatthana, Rayong Thailand 21180
P/O :
Project Name :
Project Location : WHA Rayong 36

TESTING
No.0042
Lot ID: 2625869
Date Received : Apr 06, 2026
Date Reported : Apr 16, 2026
Report Number : 353H956-1

Page 3 of 4

Sample Number 2625869-1
Sample Date Apr 06, 2026 2:43 PM
Sample Description Wastewater
Location WHA Rayong 36 : Holding Pond
Date Analysis Commenced Apr 06, 2026
Condition of Sample Contained in one amber glass bottle and eleven 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)	ADPH	-	5	19	≤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 5520 B (C)	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	-	-	-	8.2	5.5-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Rayong
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-C1 (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

Photchana S.
Photchana Seada
Scientist (4)
วศอธรรมาภรณ์ 3-323-4-0028

Approved by

D. Chongchon
Dej Chongchon
Senior Manager
วศอธรรมาภรณ์ 3-323-4-0001

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

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NIGHT SOLUTIONS NIGHT PAIN FIGHTER
0217-422 0462 3/26/2026_RL-01 (14/03/26)



Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
3375, Phana Nikom, Nikom Phatthana, Rayong Thailand 21180

P/O :
Project Name :
Project Location : WHA Rayong 36



TESTING
No.0042
Lot ID: 2625869
Date Received : Apr 06, 2026
Date Reported : Apr 16, 2026
Report Number : 353H956-1

Page 4 of 4

Sample Number	2625869-1					
Sampled Date	Apr 06, 2026 2:43 PM					
Sample Description	Wastewater					
Location	WHA Rayong 36 : Holding Pond					
Date Analysis Commenced	Apr 06, 2026					
Condition of Sample	Contained in one amber glass bottle and eleven 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	-	-	33.8	≤40	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2530 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	540	≤2300	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	1.7	≤100	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-Norg (C), part 4500 (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 : Notification of the Ministry of Natural Resource and Environment and Amendment details report of Environmental Impact Assessment Report of WHA Rayong 36 Company Limited.
Sampling By : Wanlop Hunchanaow รหัสประจำตัว 3-323-4-0038

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

Technical Management

Photchana S

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

Approved by

Dej Chongchon

Senior Manager
รหัสประจำตัว 3-323-4-0001

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

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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
3375, Phana Nikom, Nikom Phatthana, Rayong Thailand 21180

P/O :
Project Name :
Project Location : WHA Rayong 36



TESTING
No.0009
Lot ID: 2625869
Date Received : Apr 06, 2026
Date Reported : Apr 16, 2026
Report Number : 353H956-2

Page 1 of 2

Sample Number	2625869-1					
Sampled Date	Apr 06, 2026 2:43 PM					
Sample Description	Wastewater					
Location	WHA Rayong 36 : Holding Pond					
Date Analysis Commenced	Apr 06, 2026					
Condition of Sample	Contained in one amber glass bottle and eleven 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							
Aluminium *	mg/L	0.02	0.05	0.08	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3120 B, 3030 F	Rayong
Iron *	mg/L	0.005	0.01	0.08	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3120 B, 3030 F	Rayong
Silver *	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
Microbiological Testing							
Fecal Coliform	MPN/100mL	-	-	790.0	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 9221 B, E	Bangkok
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	0.05	0.1	Not Detected	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-NHD (D)	Rayong
BOD (5 days at 20 degree C) Soluble *	mg/L	-	2.0	<2.0	No Standard	In-house method based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B	Rayong

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

Approved by

Surimon C

Surimon Chaiyungut
Scientist (3)

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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
3375, Phana Nikom, Nikom Phatthana, Rayong Thailand 21180

P/O :
Project Name :
Project Location : WHA Rayong 36

TESTING
No.0009
Lot ID: 2625869
Date Received : Apr 06, 2026
Date Reported : Apr 16, 2026
Report Number : 353H956-2

Page 2 of 2

Sample Number	2625869-1					
Sampled Date	Apr 06, 2026 2:43 PM					
Sample Description	Wastewater					
Location	WHA Rayong 36 : Holding Pond					
Date Analysis Commenced	Apr 06, 2026					
Condition of Sample	Contained in one amber glass bottle and eleven 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							
Conductivity at 25 Degree C *	micromhos/cm	-	0.5	799	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2510 B	Rayong
Dissolved Oxygen *	mg/L	-	0.1	8.3	≥4	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-O (G)	Rayong
Nitrate as N *	mg/L	0.015	0.05	16.0	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-NO3 (E)	Rayong
Salinity *	ppt	-	0.1	0.4	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2510 B	Rayong
Volatile Matter in Suspended Solids *	mg/L	-	5	6	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 (D, E)	Bangkok

Guideline : Notification of the Ministry of Natural Resource and Environment and Amendment details report of Environmental Impact Assessment Report of WHA Rayong 36 Company Limited.
Sampling By : Wanlop Hunchanaow

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

Surimon C

Surimon Chaiyungut
Scientist (3)

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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
3375, Phana Nikom, Nikom Phatthana, Rayong Thailand 21180

P/O :
Project Name :
Project Location : WHA Rayong 36

TESTING
No.0009
Lot ID: 2625910
Date Received : Apr 06, 2026
Date Reported : Apr 17, 2026
Report Number : 3535010-1

Page 1 of 1

Sample Number	2625910-1					
Sampled Date	Apr 06, 2026 2:43 PM					
Sample Description	Wastewater					
Location	WHA Rayong 36 : Holding Pond					
Date Analysis Commenced	Apr 06, 2026					
Condition of Sample	Contained in one plastic bottle, sample containers comply to pretreatment - preservation standards (APHA, USEPA)					
Physical Property	Yellow, some odour, solid and turbid					

Analyte	Unit	LOD	LOQ (LOR)	Result	Method	Testing Location
Water Testing						
Anionic Surfactant as MBAS	mg/L	0.015	0.05	<0.05	Based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5540 B, C	Bangkok

Sampling By : Wanlop Hunchanaow

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

Approved by

Siriluk P

Siriluk Burasak
Section Head

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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
3375, Phana Nikom, Nikom Phatthana, Rayong Thailand 21180
P/O :
Project Name :
Project Location : WHA Rayong 36

TESTING
No.0042
Lot ID: 2635616
Date Received : May 12, 2026
Date Reported : May 19, 2026
Report Number : 3558759-1

Page 1 of 4

Sample Number 2635616-1
Sample Date May 12, 2026 3:10 PM
Sample Description Wastewater
Location WHA Rayong 36 : Holding Pond
Date Analysis Commenced May 12, 2026
Condition of Sample Contained in one amber glass bottle and eleven plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property Yellow, some odour, solid and no turbid

Analyte	Unit	LOD	LOQ (LOD)	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
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-G 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	0.03	≤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

Photchana S

Photchana Seeda
Scientist (4)
วศอ๒๒๒๒๒๒ ๖-323-๖-0028

Approved by

Dej Chongchon

Senior Manager
วศอ๒๒๒๒๒๒ ๖-323-๖-0001

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LSReport_ML_Sup (2-4-2026)



Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
3375, Phana Nikom, Nikom Phatthana, Rayong Thailand 21180
P/O :
Project Name :
Project Location : WHA Rayong 36

TESTING
No.0042
Lot ID: 2635616
Date Received : May 12, 2026
Date Reported : May 19, 2026
Report Number : 3558759-1

Page 2 of 4

Sample Number 2635616-1
Sample Date May 12, 2026 3:10 PM
Sample Description Wastewater
Location WHA Rayong 36 : Holding Pond
Date Analysis Commenced May 12, 2026
Condition of Sample Contained in one amber glass bottle and eleven plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property Yellow, some odour, solid and no turbid

Analyte	Unit	LOD	LOQ (LOD)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Color (at pH 7.0)	ADMT	-	5	21	≤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	<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	-	-	-	7.6	5.5-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500-H (B)	Rayong
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

Photchana S

Photchana Seeda
Scientist (4)
วศอ๒๒๒๒๒๒ ๖-323-๖-0028

Approved by

Dej Chongchon

Senior Manager
วศอ๒๒๒๒๒๒ ๖-323-๖-0001

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LSReport_ML_Sup (2-4-2026)



Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
3375, Phana Nikom, Nikom Phatthana, Rayong Thailand 21180
P/O :
Project Name :
Project Location : WHA Rayong 36

TESTING
No.0042
Lot ID: 2635616
Date Received : May 12, 2026
Date Reported : May 19, 2026
Report Number : 3558759-1

Page 2 of 4

Sample Number 2635616-1
Sample Date May 12, 2026 3:10 PM
Sample Description Wastewater
Location WHA Rayong 36 : Holding Pond
Date Analysis Commenced May 12, 2026
Condition of Sample Contained in one amber glass bottle and eleven plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property Yellow, some odour, solid and no turbid

Analyte	Unit	LOD	LOQ (LOD)	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	0.03	≤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	0.05	≤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	3.9	≤15	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	29	≤100	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Rayong
Color (at Original pH)	ADMT	-	5	22	≤300	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2120 F	Rayong

Technical Management

Photchana S

Photchana Seeda
Scientist (4)
วศอ๒๒๒๒๒๒ ๖-323-๖-0028

Approved by

Dej Chongchon

Senior Manager
วศอ๒๒๒๒๒๒ ๖-323-๖-0001

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LSReport_ML_Sup (2-4-2026)



Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
3375, Phana Nikom, Nikom Phatthana, Rayong Thailand 21180
P/O :
Project Name :
Project Location : WHA Rayong 36

TESTING
No.0042
Lot ID: 2635616
Date Received : May 12, 2026
Date Reported : May 19, 2026
Report Number : 3558759-1

Page 4 of 4

Sample Number 2635616-1
Sample Date May 12, 2026 3:10 PM
Sample Description Wastewater
Location WHA Rayong 36 : Holding Pond
Date Analysis Commenced May 12, 2026
Condition of Sample Contained in one amber glass bottle and eleven plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property Yellow, some odour, solid and no turbid

Analyte	Unit	LOD	LOQ (LOD)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Temperature *	Degree C	-	-	31.2	≤40	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2530 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	448	≤2300	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	3.2	≤100	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500-Norg (C), part 4500 (D)	Rayong
Total Suspended Solids Dried from 103-105 degree C	mg/L	-	5	20	≤50	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Rayong

Guideline : Notification of the Ministry of Natural Resource and Environment and Amendment details report of Environmental Impact Assessment Report of WHA Rayong 36 Company Limited.
Sampling by : Narurat thammassaro วศอ๒๒๒๒๒๒ ๖-323-๖-0052

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

Technical Management

Photchana S

Photchana Seeda
Scientist (4)
วศอ๒๒๒๒๒๒ ๖-323-๖-0028

Approved by

Dej Chongchon

Senior Manager
วศอ๒๒๒๒๒๒ ๖-323-๖-0001

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LSReport_ML_Sup (2-4-2026)



Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
3375, Phana Nikom, Nikom Phatthana, Rayong Thailand 21180
P/O :
Project Name :
Project Location : WHA Rayong 36

TESTING
No.0009
Lot ID: 2635616
Date Received : May 12, 2026
Date Reported : May 19, 2026
Report Number : 3558759-2

Page 1 of 2

Sample Number 2635616-1
Sampled Date May 12, 2026 3:10 PM
Sample Description Wastewater
Location WHA Rayong 36 : Holding Pond
Date Analysis Commenced May 12, 2026
Condition of Sample Contained in one amber glass bottle and eleven 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							
Aluminium *	mg/L	0.02	0.05	0.53	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3120 B, 3030 F	Rayong
Iron *	mg/L	0.005	0.01	0.35	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3120 B, 3030 F	Rayong
Silver *	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
Microbiological Testing							
Fecal Coliform	MPN/100mL	-	-	3300.0	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 9221 B, E	Bangkok
Total Coliform	MPN/100mL	-	-	4900.0	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	0.05	0.1	0.8	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500-NH3 (D)	Rayong
BOD (5 days at 20 degree C) Soluble *	mg/L	-	2.0	<2.0	No Standard	In-house method based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5210 B	Rayong

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Approved by

Sumanee Chuanthaisri
Section Head

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NIGHT SOLUTIONS' PRESENT 'PAIN' FTECHN
0217-422 0166



Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
3375, Phana Nikom, Nikom Phatthana, Rayong Thailand 21180
P/O :
Project Name :
Project Location : WHA Rayong 36

Lot ID: 2635646
Date Received : May 12, 2026
Date Reported : May 20, 2026
Report Number : 3558821-1

Page 1 of 1

Sample Number 2635646-1
Sampled Date May 12, 2026 3:10 PM
Sample Description Wastewater
Location WHA Rayong 36 : Holding Pond
Date Analysis Commenced May 15, 2026
Condition of Sample Contained in one plastic bottle, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property Yellow, some odour, solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Anionic Surfactant as MBAS	mg/L	0.015	0.05	0.15	No Standard	Based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5540 B, C	Bangkok

Guideline : Notification of the Ministry of Natural Resource and Environment and Amendment details report of Environmental Impact Assessment Report of WHA Rayong 36 Company Limited.
Sampling By : Narurat thummesaro

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

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

Approved by

Suwimon Chuanthaisri
Scientist (3)

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0217-422 0166



Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
3375, Phana Nikom, Nikom Phatthana, Rayong Thailand 21180
P/O :
Project Name :
Project Location : WHA Rayong 36

TESTING
No.0009
Lot ID: 2635616
Date Received : May 12, 2026
Date Reported : May 19, 2026
Report Number : 3558759-2

Page 2 of 2

Sample Number 2635616-1
Sampled Date May 12, 2026 3:10 PM
Sample Description Wastewater
Location WHA Rayong 36 : Holding Pond
Date Analysis Commenced May 12, 2026
Condition of Sample Contained in one amber glass bottle and eleven plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property Yellow, some odour, solid and no turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Conductivity at 25 Degree C *	micromhos/cm	-	0.5	698	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2510 B	Rayong
Dissolved Oxygen *	mg/L	-	0.1	6.5	≥4	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500-O (G)	Rayong
Nitrate as N *	mg/L	0.015	0.05	10.4	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500-NO3 (C)	Rayong
Salinity *	ppt	-	0.1	0.4	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2510 B	Rayong
Volatile Matter in Suspended Solids *	mg/L	-	5	9	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 (D, E)	Bangkok

Guideline : Notification of the Ministry of Natural Resource and Environment and Amendment details report of Environmental Impact Assessment Report of WHA Rayong 36 Company Limited.
Sampling By : Narurat thummesaro

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

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Approved by

Sumanee Chuanthaisri
Section Head

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0217-422 0166



Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
3375, Phana Nikom, Nikom Phatthana, Rayong Thailand 21180
P/O :
Project Name :
Project Location : WHA Rayong 36

TESTING
No.0042
Lot ID: 2645564
Date Received : Jun 12, 2026
Date Reported : Jun 20, 2026
Report Number : 3581236-1

Page 1 of 4

Sample Number 2645564-1
Sampled Date Jun 12, 2026 11:50 AM
Sample Description Wastewater
Location WHA Rayong 36 : Holding Pond
Date Analysis Commenced Jun 12, 2026
Condition of Sample Contained in three amber glass bottles and eleven 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
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 3050-C 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	0.07	≤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

Pichchanas Senda
Scientist (4)
วช๖๕๙๙๙๙๙ ๖-323-4-0029

Approved by

Dej Chongchon
Senior Manager
วช๖๕๙๙๙๙๙ ๖-323-4-0001

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0217-422 0166



Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
3375, Phana Nikom, Nikom Phatthana, Rayong Thailand 21180
P/O :
Project Name :
Project Location : WHA Rayong 36



TESTING
No.0042
Lot ID: 2645564
Date Received : Jun 12, 2026
Date Reported : Jun 20, 2026
Report Number : 3581236-1

Page 2 of 4

Sample Number 2645564-1
Sample Date Jun 12, 2026 11:50 AM
Sample Description Wastewater
Location WHA Rayong 36 : Holding Pond
Date Analysis Commenced Jun 12, 2026
Condition of Sample Contained in three amber glass bottles and eleven 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	0.04	≤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	0.09	≤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	8.6	≤15	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	41	≤100	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Rayong
Color (at Original pH)	ADMT	-	5	23	≤300	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2120 F	Rayong

Technical Management

Photchana S

Photchana Seeda
Scientist (4)
วศอ๒๓๔๕๖๗ ๖-323-๔-0028

Approved by

D. Chongchon

Dej Chongchon
Senior Manager
วศอ๒๓๔๕๖๗ ๖-323-๔-0001

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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
3375, Phana Nikom, Nikom Phatthana, Rayong Thailand 21180
P/O :
Project Name :
Project Location : WHA Rayong 36



TESTING
No.0042
Lot ID: 2645564
Date Received : Jun 12, 2026
Date Reported : Jun 20, 2026
Report Number : 3581236-1

Page 3 of 4

Sample Number 2645564-1
Sample Date Jun 12, 2026 11:50 AM
Sample Description Wastewater
Location WHA Rayong 36 : Holding Pond
Date Analysis Commenced Jun 12, 2026
Condition of Sample Contained in three amber glass bottles and eleven 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)	ADMT	-	5	22	≤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	0.006	≤0.2	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - C (C)	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	-	-	-	8.4	5.5-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Rayong
Phenol	mg/L	0.005	0.01	<0.010	≤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 - C (7)	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 4500-52 (C, F)	Rayong

Technical Management

Photchana S

Photchana Seeda
Scientist (4)
วศอ๒๓๔๕๖๗ ๖-323-๔-0028

Approved by

D. Chongchon

Dej Chongchon
Senior Manager
วศอ๒๓๔๕๖๗ ๖-323-๔-0001

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Analysis / Test Report

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P/O :
Project Name :
Project Location : WHA Rayong 36



TESTING
No.0042
Lot ID: 2645564
Date Received : Jun 12, 2026
Date Reported : Jun 20, 2026
Report Number : 3581236-1

Page 4 of 4

Sample Number 2645564-1
Sample Date Jun 12, 2026 11:50 AM
Sample Description Wastewater
Location WHA Rayong 36 : Holding Pond
Date Analysis Commenced Jun 12, 2026
Condition of Sample Contained in three amber glass bottles and eleven 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	-	-	32.0	≤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	480	≤2300	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	3.2	≤100	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500-Norg (C), part 4500 (D)	Rayong
Total Suspended Solids Dried from 103-105 degree C	mg/L	-	5	27	≤50	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Rayong

Guideline : Notification of the Ministry of Natural Resource and Environment and Amendment details report of Environmental Impact Assessment report of WHA Rayong 36 Company Limited.
Sampling By : Pithaya Thongtaeng วศอ๒๓๔๕๖๗ ๖-323-๔-0030, Akkharin Budsakhet วศอ๒๓๔๕๖๗ ๖-204-๔-0196

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

Technical Management

Photchana S

Photchana Seeda
Scientist (4)
วศอ๒๓๔๕๖๗ ๖-323-๔-0028

Approved by

D. Chongchon

Dej Chongchon
Senior Manager
วศอ๒๓๔๕๖๗ ๖-323-๔-0001

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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
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P/O :
Project Name :
Project Location : WHA Rayong 36

Lot ID: 2645564
Date Received : Jun 12, 2026
Date Reported : Jun 19, 2026
Report Number : 3581236-2

Page 1 of 3

Sample Number 2645564-1
Sample Date Jun 12, 2026 11:50 AM
Sample Description Wastewater
Location WHA Rayong 36 : Holding Pond
Date Analysis Commenced Jun 13, 2026
Condition of Sample Contained in three amber glass bottles and eleven 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-DOD	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-DOD	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

Narin Seeseng

Narin Seeseng
Supervisor
วศอ๒๓๔๕๖๗ ๖-204-๔-0009

Approved by

Kasikorn Anuk

Kasikorn Anuk
Assistant General Manager
วศอ๒๓๔๕๖๗ ๖-204-๔-0004

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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
3375, Phana Nikom, Nikom Phatthana, Rayong Thailand 21180
P/O :
Project Name :
Project Location : WHA Rayong 36

Lot ID: 2645564
Date Received : Jun 12, 2026
Date Reported : Jun 19, 2026
Report Number : 3581236-2

Page 2 of 2

Sample Number 2645564-1
Sample Date Jun 12, 2026 11:50 AM
Sample Description Wastewater
Location WHA Rayong 36 : Holding Pond
Date Analysis Commenced Jun 13, 2026
Condition of Sample Contained in three amber glass bottles and eleven 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

Narin Sereeng
Supervisor
วคดธนายกรั 204-4-0009

Approved by

Karokkorn Anuk
Assistant General Manager
วคดธนายกรั 204-4-0004

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Analysis / Test Report

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P/O :
Project Name :
Project Location : WHA Rayong 36

Lot ID: 2645564
Date Received : Jun 12, 2026
Date Reported : Jun 20, 2026
Report Number : 3581236-3

Page 1 of 2

Sample Number 2645564-1
Sample Date Jun 12, 2026 11:50 AM
Sample Description Wastewater
Location WHA Rayong 36 : Holding Pond
Date Analysis Commenced Jun 12, 2026
Condition of Sample Contained in three amber glass bottles and eleven 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							
Aluminium	mg/L	0.02	0.05	0.18	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3120 B, 3030 F	Rayong
Iron	mg/L	0.005	0.01	0.12	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3120 B, 3030 F	Rayong
Silver	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
Microbiological Testing							
Fecal Coliform	MPN/100mL	-	-	3300.0	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 9221 B, E	Bangkok
Total Coliform	MPN/100mL	-	-	7900.0	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 9221 B	Bangkok
Pesticides - Organochlorine Group							
alpha-Chlordane *	ug/L	0.01	0.02	Not Detected	Not Detected	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 6630 D, part 6410 B	Bangkok
gamma-Chlordane *	ug/L	0.01	0.02	Not Detected	Not Detected	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 6630 D, part 6410 B	Bangkok

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Photchanas Seenda
Scientist (4)

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Analysis / Test Report

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P/O :
Project Name :
Project Location : WHA Rayong 36

Lot ID: 2645564
Date Received : Jun 12, 2026
Date Reported : Jun 19, 2026
Report Number : 3581236-2

Page 1 of 2

Sample Number 2645564-1
Sample Date Jun 12, 2026 11:50 AM
Sample Description Wastewater
Location WHA Rayong 36 : Holding Pond
Date Analysis Commenced Jun 13, 2026
Condition of Sample Contained in three amber glass bottles and eleven 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

Guideline : Notification of the Ministry of Natural Resource and Environment and Amendment details report of Environmental Impact Assessment Report of WHA Rayong 36 Company Limited.
Sampling By : Pithaya Thongsaeng วคดธนายกรั 2-323-4-0030, Akkarn Buthakree วคดธนายกรั 2-304-4-0196

Remarks :
- LOD : Limit of Detection
- "uL" : Lower than LOQ (Limit of Quantitation) / LOQ (Limit of Reporting)

Technical Management

Narin Sereeng
Supervisor
วคดธนายกรั 204-4-0009

Approved by

Karokkorn Anuk
Assistant General Manager
วคดธนายกรั 204-4-0004

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Analysis / Test Report

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Project Name :
Project Location : WHA Rayong 36

Lot ID: 2645564
Date Received : Jun 12, 2026
Date Reported : Jun 20, 2026
Report Number : 3581236-3

Page 2 of 2

Sample Number 2645564-1
Sample Date Jun 12, 2026 11:50 AM
Sample Description Wastewater
Location WHA Rayong 36 : Holding Pond
Date Analysis Commenced Jun 12, 2026
Condition of Sample Contained in three amber glass bottles and eleven 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							
Heachlorobenzene *	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	0.4	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-NH3 (D)	Rayong
BOD (5 days at 20 degree C) Soluble *	mg/L	-	2.0	<2.0	No Standard	In-house method based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B	Rayong
Conductivity at 25 Degree C *	micromhos/cm	-	0.5	772	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2510 B	Rayong
Dissolved Oxygen *	mg/L	-	0.1	10.6	≥4	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-O2 (G)	Rayong
Nitrate as N *	mg/L	0.015	0.05	13.9	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-NO3 (E)	Rayong
Salinity *	ppt	-	0.1	0.4	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2510 B	Rayong

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Approved by

Photchanas Seenda
Scientist (4)

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Analysis / Test Report

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P/O :

Project Name :

Project Location : WHA Rayong 36



TESTING

No.0042

Lot ID: 2645564

Date Received : Jun 12, 2026

Date Reported : Jun 20, 2026

Report Number : 3581236-3

Page 1 of 3

Sample Number 2645564-1
Sampled Date Jun 12, 2026 11:50 AM
Sample Description Wastewater
Location WHA Rayong 36 : Holding Pond
Date Analysis Commenced Jun 12, 2026
Condition of Sample Contained in three amber glass bottles and eleven 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							
Volatile Matter in Suspended Solids *	mg/L	-	5	11	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 (D, E)	Bangkok

Guideline : Notification of the Ministry of Natural Resource and Environment and Amendment details report of Environmental Impact Assessment Report of WHA Rayong 36 Company Limited.

Sampling By : Pitheya Thongtaeng , Akkarin Budsakdee

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] Analysts conducted by ALS Laboratory Group (Thailand) Co.,Ltd. Bangkok Branch, DSS Accreditation No. 0005.
- Sampling is not included in scope of accreditation ISO/IEC 17025

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Approved by

Photchana S

Photchana Seeda
Scientist (4)

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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
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P/O :

Project Name :

Project Location : WHA Rayong 36

Lot ID: 2645566

Date Received : Jun 12, 2026

Date Reported : Jun 18, 2026

Report Number : 3581240-1

Page 1 of 1

Sample Number 2645566-1
Sampled Date Jun 12, 2026 11:50 AM
Sample Description Wastewater
Location WHA Rayong 36 : Holding Pond
Date Analysis Commenced Jun 16, 2026
Condition of Sample Contained in one plastic bottle, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property Yellow, some odour, solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Anionic Surfactant as MBAS	mg/L	0.015	0.05	0.19	No Standard	Based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5540 B, C	Bangkok

Guideline : Notification of the Ministry of Natural Resource and Environment and Amendment details report of Environmental Impact Assessment Report of WHA Rayong 36 Company Limited.

Sampling By : Akkarin Budsakdee

Remark :

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

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

Approved by

Van S

Narin Saeng
Supervisor

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TESTING
No.0042

Analysis Report

Work Order : RA2505386
Client : WHA Utilities and Power Public Company Limited
27 Moo 2, Tambon Phana Nakhon, Amphoe Nakhon Phathamni, Rayong,
Thailand, 21100
Project : WHA Rayong 36
Project Location : TAWAY Electric Company Limited, J.08_WWT_WHARayong36_004_2567

Sample Number : RA2505386-001
Sampled Date : Jan 12, 2026 10:40 AM
Sample Name : Wastewater
Sampling Site : TAWAY Electric Company Limited
Contract ID : WWT_WHARayong36_004_2567
Plot : J.09
Date of Analysis : Jan 12, 2026
Sampled by : Natawat Athompranmarat (+323-4-0006)
Condition of Sample : 1x 500mL Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet/data, 1x 1L Plastic Bottle, refrigerated
Physical Properties : yellow, strong odour, some solids, turbid

Analytical Results

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	33.7	<200	EN6044	Rayong
COD	mg/L	1.5	25	102	<400	EN6046	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	EN6048	Rayong
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	8.2	6-9	EN6020	Rayong
Temperature *	°C	-	-	28.3	≤40	EN6097	Rayong
Total Dissolved Solids at 180°C	mg/L	-	5	360	≤3000	EN6100	Rayong
Total Suspended Solids	mg/L	-	5	10	≤200	EN6102	Rayong

Guideline : Environmental Impact Assessment Report of WHA Rayong 36 Industrial Estate
Comment : Sampling is not included in scope of accreditation ISO/IEC 17025
Key :

- LOD : Limit of Detection
- * : Lower than LOQ (Limit of Quantification) / LOR (Limit of Reporting)
- Analyte(s) marked * are not included in scope of Accreditation ISO/IEC 17025

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TESTING
No.0042

Analysis Report

Work Order : RA2505387
Client : WHA Utilities and Power Public Company Limited
27 Moo 2, Tambon Phana Nakhon, Amphoe Nakhon Phathamni, Rayong,
Thailand, 21100
Project : WHA Rayong 36
Project Location : THAIYA CORPORATION LIMITED, J.05_WWT_WHARayong36_003_2567

Sample Number : RA2505387-001
Sampled Date : Jan 12, 2026 11:10 AM
Sample Name : Wastewater
Sampling Site : THAIYA CORPORATION LIMITED
Contract ID : WWT_WHARayong36_003_2567
Plot : J.05
Date of Analysis : Jan 12, 2026
Sampled by : Natawat Athompranmarat (+323-4-0006)
Condition of Sample : 1x 500mL Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet/data, 1x 1L Plastic Bottle, refrigerated
Physical Properties : yellow, strong odour, lots of solids, highly turbid

Analytical Results

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	271	<200	EN6044	Rayong
COD	mg/L	1.5	25	478	<400	EN6046	Rayong
Oil & Grease	mg/L	-	3	10	≤10	EN6048	Rayong
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.3	6-9	EN6020	Rayong
Temperature *	°C	-	-	27.8	≤40	EN6097	Rayong
Total Dissolved Solids at 180°C	mg/L	-	5	488	≤3000	EN6100	Rayong
Total Suspended Solids	mg/L	-	5	107	≤200	EN6102	Rayong

Guideline : Environmental Impact Assessment Report of WHA Rayong 36 Industrial Estate
Comment : Sampling is not included in scope of accreditation ISO/IEC 17025
Key :

- LOD : Limit of Detection
- * : Lower than LOQ (Limit of Quantification) / LOR (Limit of Reporting)
- Analyte(s) marked * are not included in scope of Accreditation ISO/IEC 17025

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TESTING
No.0042

Analysis Report

Work Order : RA2505386
Client : WHA Utilities and Power Public Company Limited
27 Moo 2, Tambon Phana Nakhon, Amphoe Nakhon Phathamni, Rayong,
Thailand, 21100
Project : WHA Rayong 36
Project Location : TAWAY Electric Company Limited, J.08_WWT_WHARayong36_004_2567

Sample Number : RA2505386-001
Sampled Date : Jan 12, 2026 10:40 AM
Sample Name : Wastewater
Sampling Site : TAWAY Electric Company Limited
Contract ID : WWT_WHARayong36_004_2567
Plot : J.09
Date of Analysis : Jan 12, 2026
Sampled by : Natawat Athompranmarat (+323-4-0006)
Condition of Sample : 1x 500mL Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet/data, 1x 1L Plastic Bottle, refrigerated
Physical Properties : yellow, strong odour, some solids, turbid

Brief Method Summaries

The methods in the analysis report are short format, refer to full test methods in accordance with the ISO/IEC 17025 certificate no. specified in the analysis report.

Method	Testing Lab	Method Descriptions
EN60029	Rayong	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN6004	Rayong	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (C)
EN6046	Rayong	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN6048	Rayong	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN6097	Rayong	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 2550 B
EN6100	Rayong	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 2540 C
EN6102	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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TESTING
No.0042

Analysis Report

Work Order : RA2505387
Client : WHA Utilities and Power Public Company Limited
27 Moo 2, Tambon Phana Nakhon, Amphoe Nakhon Phathamni, Rayong,
Thailand, 21100
Project : WHA Rayong 36
Project Location : THAIYA CORPORATION LIMITED, J.05_WWT_WHARayong36_003_2567

Sample Number : RA2505387-001
Sampled Date : Jan 12, 2026 11:10 AM
Sample Name : Wastewater
Sampling Site : THAIYA CORPORATION LIMITED
Contract ID : WWT_WHARayong36_003_2567
Plot : J.05
Date of Analysis : Jan 12, 2026
Sampled by : Natawat Athompranmarat (+323-4-0006)
Condition of Sample : 1x 500mL Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet/data, 1x 1L Plastic Bottle, refrigerated
Physical Properties : yellow, strong odour, lots of solids, highly turbid

Brief Method Summaries

The methods in the analysis report are short format, refer to full test methods in accordance with the ISO/IEC 17025 certificate no. specified in the analysis report.

Method	Testing Lab	Method Descriptions
EN60029	Rayong	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN6004	Rayong	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (C)
EN6046	Rayong	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN6048	Rayong	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN6097	Rayong	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 2550 B
EN6100	Rayong	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 2540 C
EN6102	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 : RA2505384
Client : WHA Utilities and Power Public Company Limited
27 Moo 2, Tambon Phana Nakhon, Amphoe Nakhon Phathamni, Rayong,
Thailand, 21100
Project : WHA Rayong 36
Project Location : QUANTUM SPT COMPANY LIMITED_131_WWT_WHARayong36_005_2567

Sample Number : RA2505384-001
Sampled Date : Jan 12, 2026 09:10 AM
Sample Name : Wastewater
Sampling Site : QUANTUM SPT COMPANY LIMITED
Contract ID : WWT_WHARayong36_005_2567
Plot : J.31
Date of Analysis : Jan 12, 2026
Sampled by : Natawat Athompranmarat (+323-4-0006)
Condition of Sample : 1x 500mL Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet/data, 1x 1L Plastic Bottle, refrigerated
Physical Properties : yellow, strong odour, bits of solids, turbid

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	26.0	<200	E10044	Rayong
COD	mg/L	1.5	25	48	<400	E10046	Rayong
Oil & Grease	mg/L	-	3	4	<10	E10048	Rayong
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.3	6-9	E10020	Rayong
Temperature *	°C	-	-	28.9	<40	E10097	Rayong
Total Dissolved Solids at 180°C	mg/L	-	5	258	<3000	E10100	Rayong
Total Suspended Solids	mg/L	-	5	15	<200	E10102	Rayong

Guideline : Environmental Impact Assessment Report of WHA Rayong 36 Industrial Estate

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

Key :

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

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TESTING
No.0042

Analysis Report

Work Order : RA2505385
Client : WHA Utilities and Power Public Company Limited
27 Moo 2, Tambon Phana Nakhon, Amphoe Nakhon Phathamni, Rayong,
Thailand, 21100
Project : WHA Rayong 36
Project Location : T.C. PHARMACEUTICAL INDUSTRIES CO., LTD_116_WWT_WHARayong36_002_2567

Sample Number : RA2505385-001
Sampled Date : Jan 12, 2026 09:50 AM
Sample Name : Wastewater
Sampling Site : T.C. PHARMACEUTICAL INDUSTRIES CO., LTD.
Contract ID : WWT_WHARayong36_002_2567
Plot : J.16
Date of Analysis : Jan 12, 2026
Sampled by : Natawat Athompranmarat (+323-4-0006)
Condition of Sample : 1x 500mL Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet/data, 1x 1L Plastic Bottle, refrigerated
Physical Properties : yellow, some odour, some solid, no turbid

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	<2.0	<200	E10044	Rayong
COD	mg/L	1.5	25	<25	<400	E10046	Rayong
Oil & Grease	mg/L	-	3	<3	<10	E10048	Rayong
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.8	6-9	E10020	Rayong
Temperature *	°C	-	-	28.8	<40	E10097	Rayong
Total Dissolved Solids at 180°C	mg/L	-	5	228	<3000	E10100	Rayong
Total Suspended Solids	mg/L	-	5	<5	<200	E10102	Rayong

Guideline : Environmental Impact Assessment Report of WHA Rayong 36 Industrial Estate

Comment : Sampling is 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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TESTING
No.0042

Analysis Report

Work Order : RA2505384
Client : WHA Utilities and Power Public Company Limited
27 Moo 2, Tambon Phana Nakhon, Amphoe Nakhon Phathamni, Rayong,
Thailand, 21100
Project : WHA Rayong 36
Project Location : QUANTUM SPT COMPANY LIMITED_131_WWT_WHARayong36_005_2567

Sample Number : RA2505384-001
Sampled Date : Jan 12, 2026 09:10 AM
Sample Name : Wastewater
Sampling Site : QUANTUM SPT COMPANY LIMITED
Contract ID : WWT_WHARayong36_005_2567
Plot : J.31
Date of Analysis : Jan 12, 2026
Sampled by : Natawat Athompranmarat (+323-4-0006)
Condition of Sample : 1x 500mL Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet/data, 1x 1L Plastic Bottle, refrigerated
Physical Properties : yellow, strong odour, bits of solids, turbid

Method	Testing Lab	Method Descriptions
E10020	Rayong	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
E10044	Rayong	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (C)
E10046	Rayong	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
E10048	Rayong	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
E10097	Rayong	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 2550 B
E10100	Rayong	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 2540 C
E10102	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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TESTING
No.0042

Analysis Report

Work Order : RA2505385
Client : WHA Utilities and Power Public Company Limited
27 Moo 2, Tambon Phana Nakhon, Amphoe Nakhon Phathamni, Rayong,
Thailand, 21100
Project : WHA Rayong 36
Project Location : T.C. PHARMACEUTICAL INDUSTRIES CO., LTD_116_WWT_WHARayong36_002_2567

Sample Number : RA2505385-001
Sampled Date : Jan 12, 2026 09:50 AM
Sample Name : Wastewater
Sampling Site : T.C. PHARMACEUTICAL INDUSTRIES CO., LTD.
Contract ID : WWT_WHARayong36_002_2567
Plot : J.16
Date of Analysis : Jan 12, 2026
Sampled by : Natawat Athompranmarat (+323-4-0006)
Condition of Sample : 1x 500mL Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet/data, 1x 1L Plastic Bottle, refrigerated
Physical Properties : yellow, some odour, some solid, no turbid

Method	Testing Lab	Method Descriptions
E10020	Rayong	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
E10044	Rayong	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (C)
E10046	Rayong	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
E10048	Rayong	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
E10097	Rayong	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 2550 B
E10100	Rayong	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 2540 C
E10102	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 : RA2006479
Client : WHA Utilities and Power Public Company Limited
27 Moo 2, Tambon Phana Nakhon, Amphoe Nakhon Phatham, Rayong, Thailand, 21100
Project : WHA Rayong 36
Project Location : Silverspark Development (Thailand) Co., Ltd., J12, WWT_WHARayong36_013_2567

Date Received : Jul 06, 2026
Date Reported : Jul 13, 2026
Report Number : RA2006479-AA

Sample Number : RA2006479-001
Sample Date : Jul 06, 2026 10:50 AM
Sample Name : Wastewater
Sampling Site : Silverspark Development (Thailand) Co., Ltd.
Contract ID : WWT_WHARayong36_013_2567
Plot : J12
Date of Analysis : Jul 06, 2026
Sampled by : Sansoen Khulyokul (1-323-9-0005)
Condition of Sample : 1x Plastic Bottle (500 ml), 1x Plastic bottle - Preserved with H2SO4, 1x 1L Plastic Bottle, 1x Oil & Grease, refrigerated
Physical Properties : yellow, strong odour, lots of solids, highly turbid

Analytical Results

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	61.7	≤200	EN10044	Rayong
COD	mg/L	1.5	25	230	≤400	EN10046	Rayong
Oil & Grease	mg/L	-	3	3	≤10	EN10048	Rayong
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.8	6-9	EN10020	Rayong
Temperature *	°C	-	-	31.2	≤40	EN10097	Rayong
Total Dissolved Solids at 180°C	mg/L	-	5	436	≤3000	EN10100	Rayong
Total Suspended Solids	mg/L	-	5	21	≤200	EN10102	Rayong

Guideline : Environmental Impact Assessment Report of WHA Rayong 36 Industrial Estate
Comment : Sampling is not included in scope of accreditation ISO/IEC 17025
Key :

- LOD : Limit of Detection
- * : Lower than LOQ (Limit of Quantification) / LOR (Limit of Reporting)
- Analyte(s) marked * are not included in scope of Accreditation ISO/IEC 17025

Signatories

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Analysis Report

Work Order : RA2006480
Client : WHA Utilities and Power Public Company Limited
27 Moo 2, Tambon Phana Nakhon, Amphoe Nakhon Phatham, Rayong, Thailand, 21100
Project : WHA Rayong 36
Project Location : THAIYA CORPORATION LIMITED, J06, WWT_WHARayong36_001_2569

Date Received : Jul 06, 2026
Date Reported : Jul 13, 2026
Report Number : RA2006480-AA

Sample Number : RA2006480-001
Sample Date : Jul 06, 2026 03:40 PM
Sample Name : Wastewater
Sampling Site : THAIYA CORPORATION LIMITED
Contract ID : WWT_WHARayong36_001_2569
Plot : J06
Date of Analysis : Jul 07, 2026
Sampled by : Sansoen Khulyokul (1-323-9-0005)
Condition of Sample : 1x Plastic Bottle (500 ml), 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet's data, refrigerated
Physical Properties : yellow, strong odour, lots of solids, highly turbid

Analytical Results

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	142	≤200	EN10044	Rayong
COD	mg/L	1.5	25	417	≤400	EN10046	Rayong
Oil & Grease	mg/L	-	3	3	≤10	EN10048	Rayong
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.8	6-9	EN10020	Rayong
Temperature *	°C	-	-	31.9	≤40	EN10097	Rayong
Total Dissolved Solids at 180°C	mg/L	-	5	524	≤3000	EN10100	Rayong
Total Suspended Solids	mg/L	-	5	37	≤200	EN10102	Rayong

Guideline : Environmental Impact Assessment Report of WHA Rayong 36 Industrial Estate
Comment : Sampling is not included in scope of accreditation ISO/IEC 17025
Key :

- LOD : Limit of Detection
- * : Lower than LOQ (Limit of Quantification) / LOR (Limit of Reporting)
- Analyte(s) marked * are not included in scope of Accreditation ISO/IEC 17025

Signatories

Jitsupa P.
Jitsupa Pratsangruk
Scientist (Q)
1-323-9-0004

Dej Changchon
Senior Manager
1-323-9-0001

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

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Analysis Report

Work Order : RA2006479
Client : WHA Utilities and Power Public Company Limited
27 Moo 2, Tambon Phana Nakhon, Amphoe Nakhon Phatham, Rayong, Thailand, 21100
Project : WHA Rayong 36
Project Location : Silverspark Development (Thailand) Co., Ltd., J12, WWT_WHARayong36_013_2567

Date Received : Jul 06, 2026
Date Reported : Jul 13, 2026
Report Number : RA2006479-AA

Sample Number : RA2006479-001
Sample Date : Jul 06, 2026 10:50 AM
Sample Name : Wastewater
Sampling Site : Silverspark Development (Thailand) Co., Ltd.
Contract ID : WWT_WHARayong36_013_2567
Plot : J12
Date of Analysis : Jul 06, 2026
Sampled by : Sansoen Khulyokul (1-323-9-0005)
Condition of Sample : 1x Plastic Bottle (500 ml), 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, refrigerated
Physical Properties : yellow, strong odour, lots of solids, highly turbid

Brief Method Summaries

The methods in the analysis report are short format, refer to full test methods in accordance with the ISO/IEC 17025 certificate no. specified in the analysis report.

Method	Testing Lab	Method Descriptions
EN10020	Rayong	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF; 24th ed., 2023, part 4500 - H (B)
EN10044	Rayong	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF; 24th ed., 2023, part 5210 B and part 4500 - O (C)
EN10046	Rayong	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF; 24th ed., 2023, part 5220 D
EN10048	Rayong	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF; 24th ed., 2023, part 5520 B
EN10097	Rayong	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF; 24th ed., 2023, part 2550 B
EN10100	Rayong	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF; 24th ed., 2023, part 2540 C
EN10102	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

Work Order : RA2006480
Client : WHA Utilities and Power Public Company Limited
27 Moo 2, Tambon Phana Nakhon, Amphoe Nakhon Phatham, Rayong, Thailand, 21100
Project : WHA Rayong 36
Project Location : THAIYA CORPORATION LIMITED, J06, WWT_WHARayong36_001_2569

Date Received : Jul 06, 2026
Date Reported : Jul 13, 2026
Report Number : RA2006480-AA

Sample Number : RA2006480-001
Sample Date : Jul 06, 2026 03:40 PM
Sample Name : Wastewater
Sampling Site : THAIYA CORPORATION LIMITED
Contract ID : WWT_WHARayong36_001_2569
Plot : J06
Date of Analysis : Jul 07, 2026
Sampled by : Sansoen Khulyokul (1-323-9-0005)
Condition of Sample : 1x Plastic Bottle (500 ml), 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet's data, refrigerated
Physical Properties : yellow, strong odour, lots of solids, highly turbid

Brief Method Summaries

The methods in the analysis report are short format, refer to full test methods in accordance with the ISO/IEC 17025 certificate no. specified in the analysis report.

Method	Testing Lab	Method Descriptions
EN10020	Rayong	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF; 24th ed., 2023, part 4500 - H (B)
EN10044	Rayong	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF; 24th ed., 2023, part 5210 B and part 4500 - O (C)
EN10046	Rayong	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF; 24th ed., 2023, part 5220 D
EN10048	Rayong	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF; 24th ed., 2023, part 5520 B
EN10097	Rayong	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF; 24th ed., 2023, part 2550 B
EN10100	Rayong	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF; 24th ed., 2023, part 2540 C
EN10102	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

Work Order	RA2006476	Date Received	Jul 06, 2026				
Client	WHA Utilities and Power Public Company Limited	Date Reported	Jul 13, 2026				
	27 Moo 2, Tambon Phana Nakhon, Amphoe Nakhon Phattana, Rayong,	Report Number	RA2006476-AA				
	Thailand, 21100						
Project	WHA Rayong 36						
Project Location	TAWAY Electric Company Limited_J09_WWT_WHARayong36_004_2567						
Sample Number	RA2006476-001						
Sampled Date	Jul 06, 2026 11:30 AM						
Sample Name	Wastewater						
Sampling Site	TAWAY Electric Company Limited						
Contract ID	WWT_WHARayong36_004_2567						
Pilot	J.09						
Date of Analysis	Jul 06, 2026						
Sampled by	Sansoen Khulyokul (1-323-9-0005)						
Condition of Sample	1x Plastic Bottle (500 ml), 1x Plastic bottle - Preserved with H2SO4, 1x 1L Plastic Bottle, 1x Oil & Grease, refrigerated						
Physical Properties	yellow, strong odour, some solids, turbid						
Analytical Results							
Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	39.8	≤200	EN6044	Rayong
COD	mg/L	1.5	25	147	≤400	EN6046	Rayong
Oil & Grease	mg/L	-	3	6	≤10	EN6048	Rayong
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.8	6-9	EN6020	Rayong
Temperature *	°C	-	-	30.7	≤40	EN6097	Rayong
Total Dissolved Solids at 180°C	mg/L	-	5	268	≤3000	EN6100	Rayong
Total Suspended Solids	mg/L	-	5	12	≤200	EN6102	Rayong

Guideline: Environmental Impact Assessment Report of WHA Rayong 36 Industrial Estate

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

- Key
- LOD : Limit of Detection
 - * : Lower than LOQ (Limit of Quantification) / LOR (Limit of Reporting)
 - Analyte(s) marked * are not included in scope of Accreditation ISO/IEC 17025

Signatories

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Analysis Report

Work Order	RA2006477	Date Received	Jul 06, 2026				
Client	WHA Utilities and Power Public Company Limited	Date Reported	Jul 13, 2026				
	27 Moo 2, Tambon Phana Nakhon, Amphoe Nakhon Phattana, Rayong,	Report Number	RA2006477-AA				
	Thailand, 21100						
Project	WHA Rayong 36						
Project Location	THAIYA CORPORATION LIMITED_J05_WWT_WHARayong36_003_2567						
Sample Number	RA2006477-001						
Sampled Date	Jul 06, 2026 03:30 PM						
Sample Name	Wastewater						
Sampling Site	THAIYA CORPORATION LIMITED						
Contract ID	WWT_WHARayong36_003_2567						
Pilot	J.05						
Date of Analysis	Jul 06, 2026						
Sampled by	Sansoen Khulyokul (1-323-9-0005)						
Condition of Sample	1x Plastic Bottle (500 ml), 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet's data, refrigerated						
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	191	≤200	EN6044	Rayong
COD	mg/L	1.5	25	343	≤400	EN6046	Rayong
Oil & Grease	mg/L	-	3	6	≤10	EN6048	Rayong
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.5	6-9	EN6020	Rayong
Temperature *	°C	-	-	30.9	≤40	EN6097	Rayong
Total Dissolved Solids at 180°C	mg/L	-	5	518	≤3000	EN6100	Rayong
Total Suspended Solids	mg/L	-	5	31	≤200	EN6102	Rayong

Guideline: Environmental Impact Assessment Report of WHA Rayong 36 Industrial Estate

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

- Key
- LOD : Limit of Detection
 - * : Lower than LOQ (Limit of Quantification) / LOR (Limit of Reporting)
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Analysis Report

Work Order	RA2006476	Date Received	Jul 06, 2026
Client	WHA Utilities and Power Public Company Limited 27 Moo 2, Tambon Phana Nakhon, Amphoe Nakhon Phattana, Rayong, Thailand, 21100	Date Reported	Jul 13, 2026
Project	WHA Rayong 36	Report Number	RA2006476-AA
Project Location	TAWAY Electric Company Limited_J08_WWT_WHARayong36_004_2567		
Sample Number	RA2006476-001		
Sampled Date	Jul 06, 2026 11:30 AM		
Sample Name	Wastewater		
Sampling Site	TAWAY Electric Company Limited		
Contract ID	WWT_WHARayong36_004_2567		
Pilot	J.09		
Date of Analysis	Jul 06, 2026		
Sampled by	Sansoen Khulyokul (1-323-9-0005)		
Condition of Sample	1x Plastic Bottle (500 ml), 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, refrigerated		
Physical Properties	yellow, strong odour, some solids, turbid		
Brief Method Summaries			
The methods in the analysis report are short format, refer to full test methods in accordance with the ISO/IEC 17025 certificate no. specified in the analysis report.			
Method	Testing Lab	Method Descriptions	
EN6020	Rayong	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF; 24th ed., 2023, part 4500 - H (B)	
EN6044	Rayong	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF; 24th ed., 2023, part 5210 B and part 4500 - O (C)	
EN6046	Rayong	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF; 24th ed., 2023, part 5220 D	
EN6048	Rayong	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF; 24th ed., 2023, part 5520 B	
EN6097	Rayong	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF; 24th ed., 2023, part 2550 B	
EN6100	Rayong	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF; 24th ed., 2023, part 2540 C	
EN6102	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

Work Order	RA2006477	Date Received	Jul 06, 2026
Client	WHA Utilities and Power Public Company Limited 27 Moo 2, Tambon Phana Nakhon, Amphoe Nakhon Phattana, Rayong, Thailand, 21100	Date Reported	Jul 13, 2026
Project	WHA Rayong 36	Report Number	RA2006477-AA
Project Location	THAIYA CORPORATION LIMITED_J05_WWT_WHARayong36_003_2567		
Sample Number	RA2006477-001		
Sampled Date	Jul 06, 2026 03:30 PM		
Sample Name	Wastewater		
Sampling Site	THAIYA CORPORATION LIMITED		
Contract ID	WWT_WHARayong36_003_2567		
Pilot	J.05		
Date of Analysis	Jul 06, 2026		
Sampled by	Sansoen Khulyokul (1-323-9-0005)		
Condition of Sample	1x Plastic Bottle (500 ml), 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet's data, refrigerated		
Physical Properties	yellow, strong odour, some solid, highly turbid		
Brief Method Summaries			
The methods in the analysis report are short format, refer to full test methods in accordance with the ISO/IEC 17025 certificate no. specified in the analysis report.			
Method	Testing Lab	Method Descriptions	
EN6020	Rayong	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF; 24th ed., 2023, part 4500 - H (B)	
EN6044	Rayong	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF; 24th ed., 2023, part 5210 B and part 4500 - O (C)	
EN6046	Rayong	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF; 24th ed., 2023, part 5220 D	
EN6048	Rayong	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF; 24th ed., 2023, part 5520 B	
EN6097	Rayong	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF; 24th ed., 2023, part 2550 B	
EN6100	Rayong	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF; 24th ed., 2023, part 2540 C	
EN6102	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

Work Order : RA2006474
Client : WHA Utilities and Power Public Company Limited
27 Moo 2, Tambon Phana Nakhon, Amphoe Nakhon Phatham, Rayong,
Thailand, 21100
Project : WHA Rayong 36
Project Location : Faurecia Automotive Parts (Thailand) Co., Ltd., J11-2, WWT_WHARayong36_014_2567

Sample Number : RA2006474-001
Sample Date : Jul 06, 2026 11:02 AM
Sample Name : Wastewater
Sampling Site : Faurecia Automotive Parts (Thailand) Co., Ltd.
Contract ID : WWT_WHARayong36_014_2567
Plot : J11-2
Date of Analysis : Jul 06, 2026
Sampled by : Sansoen Khulyokul (1-323-9-0005)
Condition of Sample : 1x Plastic Bottle (500 ml), 1x Plastic bottle - Preserved with H2SO4, 1x 1L Plastic Bottle, 1x Oil & Grease, refrigerated
Physical Properties : yellow, strong odour, lots of solids, highly turbid

Analytical Results

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	178	≤200	EN10044	Rayong
COD	mg/L	1.5	25	331	≤400	EN10046	Rayong
Oil & Grease	mg/L	-	3	9	≤10	EN10048	Rayong
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.5	6-9	EN10020	Rayong
Temperature *	°C	-	-	30.9	≤40	EN10097	Rayong
Total Dissolved Solids at 180°C	mg/L	-	5	512	≤3000	EN10100	Rayong
Total Suspended Solids	mg/L	-	5	44	≤200	EN10102	Rayong

Guideline : Environmental Impact Assessment Report of WHA Rayong 36 Industrial Estate.
Comment : Sampling is not included in scope of accreditation ISO/IEC 17025
Key :

- LOD : Limit of Detection
- *C : Lower than LOQ (Limit of Quantification) / LOR (Limit of Reporting)
- Analytes marked * : items not included in scope of Accreditation ISO/IEC 17025

Signatories

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Analysis Report

Work Order : RA2006475
Client : WHA Utilities and Power Public Company Limited
27 Moo 2, Tambon Phana Nakhon, Amphoe Nakhon Phatham, Rayong,
Thailand, 21100
Project : WHA Rayong 36
Project Location : T.C. PHARMACEUTICAL INDUSTRIES CO., LTD., J16, WWT_WHARayong36_002_2567

Sample Number : RA2006475-001
Sample Date : Jul 06, 2026 10:26 AM
Sample Name : Wastewater
Sampling Site : T.C. PHARMACEUTICAL INDUSTRIES CO., LTD.
Contract ID : WWT_WHARayong36_002_2567
Plot : J16
Date of Analysis : Jul 06, 2026
Sampled by : Sansoen Khulyokul (1-323-9-0005)
Condition of Sample : 1x Plastic Bottle (500 ml), 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 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	<2.0	≤200	EN10044	Rayong
COD	mg/L	1.5	25	<25	≤400	EN10046	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	EN10048	Rayong
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	8.1	6-9	EN10020	Rayong
Temperature *	°C	-	-	31.6	≤40	EN10097	Rayong
Total Dissolved Solids at 180°C	mg/L	-	5	214	≤3000	EN10100	Rayong
Total Suspended Solids	mg/L	-	5	<5	≤200	EN10102	Rayong

Guideline : Environmental Impact Assessment Report of WHA Rayong 36 Industrial Estate.
Comment : Sampling is not included in scope of accreditation ISO/IEC 17025
Key :

- LOD : Limit of Detection
- *C : Lower than LOQ (Limit of Quantification) / LOR (Limit of Reporting)
- Analytes marked * : items not included in scope of Accreditation ISO/IEC 17025

Signatories

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Analysis Report

Work Order : RA2006474
Client : WHA Utilities and Power Public Company Limited
27 Moo 2, Tambon Phana Nakhon, Amphoe Nakhon Phatham, Rayong,
Thailand, 21100
Project : WHA Rayong 36
Project Location : Faurecia Automotive Parts (Thailand) Co., Ltd., J11-2, WWT_WHARayong36_014_2567

Sample Number : RA2006474-001
Sample Date : Jul 06, 2026 11:02 AM
Sample Name : Wastewater
Sampling Site : Faurecia Automotive Parts (Thailand) Co., Ltd.
Contract ID : WWT_WHARayong36_014_2567
Plot : J11-2
Date of Analysis : Jul 06, 2026
Sampled by : Sansoen Khulyokul (1-323-9-0005)
Condition of Sample : 1x Plastic Bottle (500 ml), 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, refrigerated
Physical Properties : yellow, strong odour, lots of solids, highly turbid

Brief Method Summaries
The methods in the analysis report are short format, refer to full test methods in accordance with the ISO/IEC 17025 certificate no. specified in the analysis report.

Method	Testing Lab	Method Descriptions
EN10020	Rayong	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF; 24th ed., 2023, part 4500 - H (B)
EN10044	Rayong	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF; 24th ed., 2023, part 5210 B and part 4500 - O (C)
EN10046	Rayong	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF; 24th ed., 2023, part 5220 D
EN10048	Rayong	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF; 24th ed., 2023, part 5520 B
EN10097	Rayong	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF; 24th ed., 2023, part 2550 B
EN10100	Rayong	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF; 24th ed., 2023, part 2540 C
EN10102	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 : RA2006475
Client : WHA Utilities and Power Public Company Limited
27 Moo 2, Tambon Phana Nakhon, Amphoe Nakhon Phatham, Rayong,
Thailand, 21100
Project : WHA Rayong 36
Project Location : T.C. PHARMACEUTICAL INDUSTRIES CO., LTD., J16, WWT_WHARayong36_002_2567

Sample Number : RA2006475-001
Sample Date : Jul 06, 2026 10:26 AM
Sample Name : Wastewater
Sampling Site : T.C. PHARMACEUTICAL INDUSTRIES CO., LTD.
Contract ID : WWT_WHARayong36_002_2567
Plot : J16
Date of Analysis : Jul 06, 2026
Sampled by : Sansoen Khulyokul (1-323-9-0005)
Condition of Sample : 1x Plastic Bottle (500 ml), 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 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 certificate no. specified in the analysis report.

Method	Testing Lab	Method Descriptions
EN10020	Rayong	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF; 24th ed., 2023, part 4500 - H (B)
EN10044	Rayong	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF; 24th ed., 2023, part 5210 B and part 4500 - O (C)
EN10046	Rayong	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF; 24th ed., 2023, part 5220 D
EN10048	Rayong	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF; 24th ed., 2023, part 5520 B
EN10097	Rayong	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF; 24th ed., 2023, part 2550 B
EN10100	Rayong	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF; 24th ed., 2023, part 2540 C
EN10102	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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Dej Changchon

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

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Analysis Report

Work Order	RA2606471	Date Received	Jul 06, 2026
Client	WHA Utilities and Power Public Company Limited 27 Moo 2, Tambon Phana Nakhon, Amphoe Nakhon Phattana, Rayong, Thailand, 21100	Date Reported	Jul 13, 2026
Project	WHA Rayong 36	Report Number	RA2606471-AA
Project Location	BYD AUTO (THAILAND) CO.,LTD./J21_WWT_WHARayong36_011_2567		
Sample Number	RA2606471-001		
Sampled Date	Jul 06, 2026 02:40 PM		
Sample Name	Wastewater - Point No.1		
Sampling Site	BYD AUTO (THAILAND) CO.,LTD.		
Contract ID	WWT_WHARayong36_011_2567		
Plot	J21		
Date of Analysis	Jul 06, 2026		
Sampled by	Sansoen Khulyokul (+323-9-0005)		
Condition of Sample	1x Plastic Bottle (500 ml), 1x Plastic bottle - Preserved with H2SO4, 1x 1L Plastic Bottle, 1x Oil & Grease, refrigerated		
Physical Properties	yellow, some odour, some solids, highly turbid		

Brief Method Summaries

The methods in the analysis report are short format, refer to full test methods in accordance with the ISO/IEC 17025 certificate no. specified in the analysis report.

Method	Testing Lab	Method Descriptions
E10020	Rayong	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
E10044	Rayong	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - D (C)
E10048	Rayong	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
E10048	Rayong	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
E10097	Rayong	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2550 B
E10100	Rayong	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 C
E10102	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	RA2606472	Date Received	Jul 06, 2026
Client	WHA Utilities and Power Public Company Limited 27 Moo 2, Tambon Phana Nakhon, Amphoe Nakhon Phattana, Rayong, Thailand, 21100	Date Reported	Jul 13, 2026
Project	WHA Rayong 36	Report Number	RA2606472-AA
Project Location	CHOHO INDUSTRIAL (THAILAND) COMPANY LIMITED/J21_WWT_WHARayong36_012_2567		
Sample Number	RA2606472-001		
Sampled Date	Jul 06, 2026 10:00 AM		
Sample Name	Wastewater		
Sampling Site	CHOHO INDUSTRIAL (THAILAND) COMPANY LIMITED		
Contract ID	WWT_WHARayong36_012_2567		
Plot	J21		
Date of Analysis	Jul 06, 2026		
Sampled by	Sansoen Khulyokul (+323-9-0005)		
Condition of Sample	1x Plastic Bottle (500 ml), 1x Plastic bottle - Preserved with H2SO4, 1x 1L Plastic Bottle, 1x Oil & Grease, refrigerated		
Physical Properties	yellow, strong odour, some solids, turbid		

Brief Method Summaries

The methods in the analysis report are short format, refer to full test methods in accordance with the ISO/IEC 17025 certificate no. specified in the analysis report.

Method	Testing Lab	Method Descriptions
E10020	Rayong	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
E10044	Rayong	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - D (C)
E10048	Rayong	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
E10048	Rayong	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
E10097	Rayong	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2550 B
E10100	Rayong	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 C
E10102	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	RA2606472	Date Received	Jul 06, 2026
Client	WHA Utilities and Power Public Company Limited 27 Moo 2, Tambon Phana Nakhon, Amphoe Nakhon Phattana, Rayong, Thailand, 21100	Date Reported	Jul 13, 2026
Project	WHA Rayong 36	Report Number	RA2606472-AA
Project Location	CHOHO INDUSTRIAL (THAILAND) COMPANY LIMITED/J21_WWT_WHARayong36_012_2567		
Sample Number	RA2606472-001		
Sampled Date	Jul 06, 2026 10:00 AM		
Sample Name	Wastewater		
Sampling Site	CHOHO INDUSTRIAL (THAILAND) COMPANY LIMITED		
Contract ID	WWT_WHARayong36_012_2567		
Plot	J21		
Date of Analysis	Jul 06, 2026		
Sampled by	Sansoen Khulyokul (+323-9-0005)		
Condition of Sample	1x Plastic Bottle (500 ml), 1x Plastic bottle - Preserved with H2SO4, 1x 1L Plastic Bottle, 1x Oil & Grease, refrigerated		
Physical Properties	yellow, strong odour, some solids, turbid		

Analytical Results

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	89.1	<200	E10044	Rayong
COD	mg/L	1.5	26	242	<400	E10048	Rayong
Oil & Grease	mg/L	-	3	8	<10	E10048	Rayong
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	8.0	6-9	E10020	Rayong
Temperature *	°C	-	-	32.3	<40	E10097	Rayong
Total Dissolved Solids at 180°C	mg/L	-	5	400	<3000	E10100	Rayong
Total Suspended Solids	mg/L	-	5	21	<200	E10102	Rayong

Guideline: Environmental Impact Assessment Report of WHA Rayong 36 Industrial Estate.

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

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

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Analysis Report

Work Order	RA2606472	Date Received	Jul 06, 2026
Client	WHA Utilities and Power Public Company Limited 27 Moo 2, Tambon Phana Nakhon, Amphoe Nakhon Phattana, Rayong, Thailand, 21100	Date Reported	Jul 13, 2026
Project	WHA Rayong 36	Report Number	RA2606472-AA
Project Location	CHOHO INDUSTRIAL (THAILAND) COMPANY LIMITED/J21_WWT_WHARayong36_012_2567		
Sample Number	RA2606472-001		
Sampled Date	Jul 06, 2026 10:00 AM		
Sample Name	Wastewater		
Sampling Site	CHOHO INDUSTRIAL (THAILAND) COMPANY LIMITED		
Contract ID	WWT_WHARayong36_012_2567		
Plot	J21		
Date of Analysis	Jul 06, 2026		
Sampled by	Sansoen Khulyokul (+323-9-0005)		
Condition of Sample	1x Plastic Bottle (500 ml), 1x Plastic bottle - Preserved with H2SO4, 1x 1L Plastic Bottle, 1x Oil & Grease, refrigerated		
Physical Properties	yellow, strong odour, some solids, turbid		

Brief Method Summaries

The methods in the analysis report are short format, refer to full test methods in accordance with the ISO/IEC 17025 certificate no. specified in the analysis report.

Method	Testing Lab	Method Descriptions
E10020	Rayong	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
E10044	Rayong	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - D (C)
E10048	Rayong	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
E10048	Rayong	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
E10097	Rayong	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2550 B
E10100	Rayong	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 C
E10102	Rayong	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

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Work Order	RA2006468	Date Received	Jul 06, 2026
Client	WHA Utilities and Power Public Company Limited	Date Reported	Jul 13, 2026
	27 Moo 2, Tambon Phana Nakhon, Amphoe Nakhon Phattana, Rayong, Thailand, 21100	Report Number	RA2006468-AA
Project	WHA Rayong 36		
Project Location	BYD AUTO (THAILAND) CO.,LTD.,J19D_WWT_WHARayong36_001_2567		
Sample Number	RA2006468-001		
Sampled Date	Jul 06, 2026 03:17 PM		
Sample Name	Wastewater - Point No.6		
Sampling Site	BYD AUTO (THAILAND) CO.,LTD.		
Contract ID	WWT_WHARayong36_001_2567		
Plot	J19D		
Date of Analysis	Jul 06, 2026		
Sampled by	Sansoen Khulyokul (+323-9-0005)		
Condition of Sample	1x Plastic Bottle (500 ml), 1x Plastic bottle - Preserved with H2SO4, 1x 1L Plastic Bottle, 1x Oil & Grease, refrigerated		
Physical Properties	yellow, some odour, some solids, turbid		

Brief Method Summaries

The methods in the analysis report are short format, refer to full test methods in accordance with the ISO/IEC 17025 certificate no. specified in the analysis report.

Method	Testing Lab	Method Descriptions
E1X0029	Rayong	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
E1X0044	Rayong	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - D (C)
E1X0048	Rayong	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
E1X0048	Rayong	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
E1X0097	Rayong	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2550 B
E1X0100	Rayong	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 C
E1X0102	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	RA2006469	Date Received	Jul 06, 2026
Client	WHA Utilities and Power Public Company Limited	Date Reported	Jul 13, 2026
	27 Moo 2, Tambon Phana Nakhon, Amphoe Nakhon Phattana, Rayong, Thailand, 21100	Report Number	RA2006469-AA
Project	WHA Rayong 36		
Project Location	BYD AUTO (THAILAND) CO.,LTD.,J28B_WWT_WHARayong36_010_2567		
Sample Number	RA2006469-001		
Sampled Date	Jul 06, 2026 02:46 PM		
Sample Name	Wastewater - Point No.3		
Sampling Site	BYD AUTO (THAILAND) CO.,LTD.		
Contract ID	WWT_WHARayong36_010_2567		
Plot	J28B		
Date of Analysis	Jul 06, 2026		
Sampled by	Sansoen Khulyokul (+323-9-0005)		
Condition of Sample	1x Plastic Bottle (500 ml), 1x Plastic bottle - Preserved with H2SO4, 1x 1L Plastic Bottle, 1x Oil & Grease, refrigerated		
Physical Properties	yellow, some odour, some solids, turbid		

Brief Method Summaries

The methods in the analysis report are short format, refer to full test methods in accordance with the ISO/IEC 17025 certificate no. specified in the analysis report.

Method	Testing Lab	Method Descriptions
E1X0029	Rayong	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
E1X0044	Rayong	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - D (C)
E1X0048	Rayong	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
E1X0048	Rayong	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
E1X0097	Rayong	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2550 B
E1X0100	Rayong	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 C
E1X0102	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	RA2006469	Date Received	Jul 06, 2026
Client	WHA Utilities and Power Public Company Limited	Date Reported	Jul 13, 2026
	27 Moo 2, Tambon Phana Nakhon, Amphoe Nakhon Phattana, Rayong, Thailand, 21100	Report Number	RA2006469-AA
Project	WHA Rayong 36		
Project Location	BYD AUTO (THAILAND) CO.,LTD.,J28B_WWT_WHARayong36_010_2567		
Sample Number	RA2006469-001		
Sampled Date	Jul 06, 2026 02:46 PM		
Sample Name	Wastewater - Point No.3		
Sampling Site	BYD AUTO (THAILAND) CO.,LTD.		
Contract ID	WWT_WHARayong36_010_2567		
Plot	J28B		
Date of Analysis	Jul 06, 2026		
Sampled by	Sansoen Khulyokul (+323-9-0005)		
Condition of Sample	1x Plastic Bottle (500 ml), 1x Plastic bottle - Preserved with H2SO4, 1x 1L Plastic Bottle, 1x Oil & Grease, refrigerated		
Physical Properties	yellow, some odour, some solids, turbid		

Analytical Results

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	28.7	<200	E1X0044	Rayong
COD	mg/L	1.5	26	84	<400	E1X0048	Rayong
Oil & Grease	mg/L	-	3	4	<10	E1X0048	Rayong
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.5	6-9	E1X0020	Rayong
Temperature *	°C	-	-	31.2	<40	E1X0097	Rayong
Total Dissolved Solids at 180°C	mg/L	-	5	260	<3000	E1X0100	Rayong
Total Suspended Solids	mg/L	-	5	18	<200	E1X0102	Rayong

Guideline: Environmental Impact Assessment Report of WHA Rayong 36 Industrial Estate.

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

- Key:
- LOD - Limit of Detection
 - *C - Lower than LOQ (Limit of Quantification) / LOR (Limit of Reporting)
 - Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025

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Analysis Report

Work Order	RA2006471	Date Received	Jul 06, 2026
Client	WHA Utilities and Power Public Company Limited	Date Reported	Jul 13, 2026
	27 Moo 2, Tambon Phana Nakhon, Amphoe Nakhon Phattana, Rayong, Thailand, 21100	Report Number	RA2006471-AA
Project	WHA Rayong 36		
Project Location	BYD AUTO (THAILAND) CO.,LTD.,J32_WWT_WHARayong36_011_2567		
Sample Number	RA2006471-001		
Sampled Date	Jul 06, 2026 02:40 PM		
Sample Name	Wastewater - Point No.1		
Sampling Site	BYD AUTO (THAILAND) CO.,LTD.		
Contract ID	WWT_WHARayong36_011_2567		
Plot	J32		
Date of Analysis	Jul 06, 2026		
Sampled by	Sansoen Khulyokul (+323-9-0005)		
Condition of Sample	1x Plastic Bottle (500 ml), 1x Plastic bottle - Preserved with H2SO4, 1x 1L Plastic Bottle, 1x Oil & Grease, refrigerated		
Physical Properties	yellow, some odour, some solids, highly turbid		

Analytical Results

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	8.9	<200	E1X0044	Rayong
COD	mg/L	1.5	26	48	<400	E1X0048	Rayong
Oil & Grease	mg/L	-	3	5	<10	E1X0048	Rayong
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.4	6-9	E1X0020	Rayong
Temperature *	°C	-	-	29.6	<40	E1X0097	Rayong
Total Dissolved Solids at 180°C	mg/L	-	5	268	<3000	E1X0100	Rayong
Total Suspended Solids	mg/L	-	5	10	<200	E1X0102	Rayong

Guideline: Environmental Impact Assessment Report of WHA Rayong 36 Industrial Estate.

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

- Key:
- LOD - Limit of Detection
 - *C - Lower than LOQ (Limit of Quantification) / LOR (Limit of Reporting)
 - Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025

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Analysis Report

Work Order	RA2006466	Date Received	Jul 06, 2026
Cliet	WHA Utilities and Power Public Company Limited	Date Reported	Jul 13, 2026
	27 Moo 2, Tambon Phana Nakhon, Amphoe Nakhon Phattana, Rayong, Thailand, 21100	Report Number	RA2006466-AA
Project	WHA Rayong 36		
Project Location	BYD AUTO (THAILAND) CO.,LTD.,J19C_WWT_WHARayong36_009_2567		
Sample Number	RA2006466-001		
Sampled Date	Jul 06, 2026 02:57 PM		
Sample Name	Wastewater : Point No.4		
Sampling Site	BYD AUTO (THAILAND) CO.,LTD.		
Contract ID	WWT_WHARayong36_009_2567		
Pilot	J19C		
Date of Analysis	Jul 06, 2026		
Sampled by	Sansoen Khulyokul (1-323-9-0005)		
Condition of Sample	1x Plastic Bottle (500 ml), 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, refrigerated		
Physical Properties	yellow, some odour, some solids, turbid		

Brief Method Summaries

The methods in the analysis report are short format, refer to full test methods in accordance with the ISO/IEC 17025 certificate no. specified in the analysis report.

Method	Testing Lab	Method Descriptions
E1X009	Rayong	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
E1X044	Rayong	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - D (C)
E1X046	Rayong	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
E1X048	Rayong	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
E1X097	Rayong	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2550 B
E1X100	Rayong	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 C
E1X102	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	RA2006467	Date Received	Jul 06, 2026
Cliet	WHA Utilities and Power Public Company Limited	Date Reported	Jul 13, 2026
	27 Moo 2, Tambon Phana Nakhon, Amphoe Nakhon Phattana, Rayong, Thailand, 21100	Report Number	RA2006467-AA
Project	WHA Rayong 36		
Project Location	BYD AUTO (THAILAND) CO.,LTD.,J19D_WWT_WHARayong36_007_2567		
Sample Number	RA2006467-001		
Sampled Date	Jul 06, 2026 03:10 PM		
Sample Name	Wastewater : Point No.5		
Sampling Site	BYD AUTO (THAILAND) CO.,LTD.		
Contract ID	WWT_WHARayong36_007_2567		
Pilot	J19D		
Date of Analysis	Jul 06, 2026		
Sampled by	Sansoen Khulyokul (1-323-9-0005)		
Condition of Sample	1x Plastic Bottle (500 ml), 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, refrigerated		
Physical Properties	yellow, some odour, some solids, turbid		

Brief Method Summaries

The methods in the analysis report are short format, refer to full test methods in accordance with the ISO/IEC 17025 certificate no. specified in the analysis report.

Method	Testing Lab	Method Descriptions
E1X009	Rayong	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
E1X044	Rayong	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - D (C)
E1X046	Rayong	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
E1X048	Rayong	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
E1X097	Rayong	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2550 B
E1X100	Rayong	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 C
E1X102	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

Work Order	RA2006467	Date Received	Jul 06, 2026
Cliet	WHA Utilities and Power Public Company Limited	Date Reported	Jul 13, 2026
	27 Moo 2, Tambon Phana Nakhon, Amphoe Nakhon Phattana, Rayong, Thailand, 21100	Report Number	RA2006467-AA
Project	WHA Rayong 36		
Project Location	BYD AUTO (THAILAND) CO.,LTD.,J19D_WWT_WHARayong36_007_2567		
Sample Number	RA2006467-001		
Sampled Date	Jul 06, 2026 03:10 PM		
Sample Name	Wastewater : Point No.5		
Sampling Site	BYD AUTO (THAILAND) CO.,LTD.		
Contract ID	WWT_WHARayong36_007_2567		
Pilot	J19D		
Date of Analysis	Jul 06, 2026		
Sampled by	Sansoen Khulyokul (1-323-9-0005)		
Condition of Sample	1x Plastic Bottle (500 ml), 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, refrigerated		
Physical Properties	yellow, some odour, some solids, turbid		

Analytical Results

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	7.0	<200	E1X044	Rayong
COD	mg/L	1.5	26	35	<400	E1X046	Rayong
Oil & Grease	mg/L	-	3	3	<10	E1X048	Rayong
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.5	6-9	E1X020	Rayong
Temperature *	°C	-	-	31.5	<40	E1X097	Rayong
Total Dissolved Solids at 180°C	mg/L	-	5	260	<3000	E1X100	Rayong
Total Suspended Solids	mg/L	-	5	7	<200	E1X102	Rayong

Guideline: Environmental Impact Assessment Report of WHA Rayong 36 Industrial Estate.

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

- Key:
- LOD - Limit of Detection
 - *C - Lower than LOQ (Limit of Quantification) / LOR (Limit of Reporting)
 - Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025

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Analysis Report

Work Order	RA2006468	Date Received	Jul 06, 2026
Cliet	WHA Utilities and Power Public Company Limited	Date Reported	Jul 13, 2026
	27 Moo 2, Tambon Phana Nakhon, Amphoe Nakhon Phattana, Rayong, Thailand, 21100	Report Number	RA2006468-AA
Project	WHA Rayong 36		
Project Location	BYD AUTO (THAILAND) CO.,LTD.,J19D_WWT_WHARayong36_008_2567		
Sample Number	RA2006468-001		
Sampled Date	Jul 06, 2026 03:17 PM		
Sample Name	Wastewater : Point No.6		
Sampling Site	BYD AUTO (THAILAND) CO.,LTD.		
Contract ID	WWT_WHARayong36_008_2567		
Pilot	J19D		
Date of Analysis	Jul 06, 2026		
Sampled by	Sansoen Khulyokul (1-323-9-0005)		
Condition of Sample	1x Plastic Bottle (500 ml), 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, refrigerated		
Physical Properties	yellow, some odour, some solids, turbid		

Analytical Results

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	15.8	<200	E1X044	Rayong
COD	mg/L	1.5	26	71	<400	E1X046	Rayong
Oil & Grease	mg/L	-	3	5	<10	E1X048	Rayong
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.1	6-9	E1X020	Rayong
Temperature *	°C	-	-	31.2	<40	E1X097	Rayong
Total Dissolved Solids at 180°C	mg/L	-	5	472	<3000	E1X100	Rayong
Total Suspended Solids	mg/L	-	5	26	<200	E1X102	Rayong

Guideline: Environmental Impact Assessment Report of WHA Rayong 36 Industrial Estate.

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

- Key:
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Work Order	RA2604316	Date Received	May 11, 2026
Client	WHA Utilities and Power Public Company Limited 27 Moo 2, Tambon Phana Nakhon, Amphoe Nakhon Phattana, Rayong, Thailand, 21100	Date Reported	May 18, 2026
Project	WHA Rayong 36	Report Number	RA2604316-AA
Project Location	THAIYA CORPORATION LIMITED, J07_WWT_WHARayong36_002_2569		
Sample Number	RA2604316-001		
Sampled Date	May 11, 2026 09:55 AM		
Sample Name	Wastewater		
Sampling Site	THAIYA CORPORATION LIMITED		
Contract ID	WWT_WHARayong36_002_2569		
Plot	J07		
Date of Analysis	May 11, 2026		
Sampled by	Wanunyo Chomphakae (1-323-9-0020)		
Condition of Sample	1x 500mL Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet/data, 1x 1L Plastic Bottle, refrigerated		
Physical Properties	yellow, strong odour, some solid, highly turbid		

Brief Method Summaries

The methods in the analysis report are short format, refer to full test methods in accordance with the ISO/IEC 17025 certificate no. specified in the analysis report.

Method	Testing Lab	Method Descriptions
E10020	Rayong	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
E10044	Rayong	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - D (C)
E10046	Rayong	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
E10048	Rayong	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
E10097	Rayong	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2550 B
E10100	Rayong	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 D
E10102	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	RA2606470	Date Received	Jul 06, 2026
Client	WHA Utilities and Power Public Company Limited 27 Moo 2, Tambon Phana Nakhon, Amphoe Nakhon Phattana, Rayong, Thailand, 21100	Date Reported	Jul 13, 2026
Project	WHA Rayong 36	Report Number	RA2606470-AA
Project Location	BYD AUTO (THAILAND) CO., LTD., J09_WWT_WHARayong36_006_2567		
Sample Number	RA2606470-001		
Sampled Date	Jul 06, 2026 02:28 PM		
Sample Name	Wastewater - Point No.2		
Sampling Site	BYD AUTO (THAILAND) CO., LTD.		
Contract ID	WWT_WHARayong36_006_2567		
Plot	J09		
Date of Analysis	Jul 06, 2026		
Sampled by	Sansoen Khulyokul (1-323-9-0005)		
Condition of Sample	1x Plastic Bottle (500 mL), 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, refrigerated		
Physical Properties	yellow, some odour, some solids, turbid		

Brief Method Summaries

The methods in the analysis report are short format, refer to full test methods in accordance with the ISO/IEC 17025 certificate no. specified in the analysis report.

Method	Testing Lab	Method Descriptions
E10020	Rayong	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
E10044	Rayong	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - D (C)
E10046	Rayong	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
E10048	Rayong	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
E10097	Rayong	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2550 B
E10100	Rayong	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 D
E10102	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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Work Order	RA2606470	Date Received	Jul 06, 2026
Client	WHA Utilities and Power Public Company Limited 27 Moo 2, Tambon Phana Nakhon, Amphoe Nakhon Phattana, Rayong, Thailand, 21100	Date Reported	Jul 13, 2026
Project	WHA Rayong 36	Report Number	RA2606470-AA
Project Location	BYD AUTO (THAILAND) CO., LTD., J09_WWT_WHARayong36_006_2567		
Sample Number	RA2606470-001		
Sampled Date	Jul 06, 2026 02:28 PM		
Sample Name	Wastewater - Point No.2		
Sampling Site	BYD AUTO (THAILAND) CO., LTD.		
Contract ID	WWT_WHARayong36_006_2567		
Plot	J09		
Date of Analysis	Jul 06, 2026		
Sampled by	Sansoen Khulyokul (1-323-9-0005)		
Condition of Sample	1x Plastic Bottle (500 mL), 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, refrigerated		
Physical Properties	yellow, some odour, some solids, turbid		

Analytical Results

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	60.9	<200	E10044	Rayong
COD	mg/L	1.5	26	215	<400	E10046	Rayong
Oil & Grease	mg/L	-	3	8	<10	E10048	Rayong
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.5	6-9	E10020	Rayong
Temperature *	°C	-	-	31.0	<40	E10097	Rayong
Total Dissolved Solids at 180°C	mg/L	-	5	292	<3000	E10100	Rayong
Total Suspended Solids	mg/L	-	5	27	<200	E10102	Rayong

Guideline: Environmental Impact Assessment Report of WHA Rayong 36 Industrial Estate.

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

- Key:
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Analysis Report

Work Order	RA2606466	Date Received	Jul 06, 2026
Client	WHA Utilities and Power Public Company Limited 27 Moo 2, Tambon Phana Nakhon, Amphoe Nakhon Phattana, Rayong, Thailand, 21100	Date Reported	Jul 13, 2026
Project	WHA Rayong 36	Report Number	RA2606466-AA
Project Location	BYD AUTO (THAILAND) CO., LTD., J19C_WWT_WHARayong36_000_2567		
Sample Number	RA2606466-001		
Sampled Date	Jul 06, 2026 02:57 PM		
Sample Name	Wastewater - Point No.4		
Sampling Site	BYD AUTO (THAILAND) CO., LTD.		
Contract ID	WWT_WHARayong36_000_2567		
Plot	J19C		
Date of Analysis	Jul 06, 2026		
Sampled by	Sansoen Khulyokul (1-323-9-0005)		
Condition of Sample	1x Plastic Bottle (500 mL), 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, refrigerated		
Physical Properties	yellow, some odour, some solids, turbid		

Analytical Results

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	10.7	<200	E10044	Rayong
COD	mg/L	1.5	26	75	<400	E10046	Rayong
Oil & Grease	mg/L	-	3	4	<10	E10048	Rayong
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.7	6-9	E10020	Rayong
Temperature *	°C	-	-	31.0	<40	E10097	Rayong
Total Dissolved Solids at 180°C	mg/L	-	5	248	<3000	E10100	Rayong
Total Suspended Solids	mg/L	-	5	17	<200	E10102	Rayong

Guideline: Environmental Impact Assessment Report of WHA Rayong 36 Industrial Estate.

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

- Key:
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 - *C - Lower than LOQ (Limit of Quantification) / LOR (Limit of Reporting)
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Analysis Report

Work Order	RA2604475	Date Received	May 12, 2026
Client	WHA Utilities and Power Public Company Limited	Date Reported	May 20, 2026
	27 Moo 2, Tambon Phana Nakhon, Amphoe Nakhon Phattana, Rayong, Thailand, 21100	Report Number	RA2604475-AC
Project	WHA Rayong 36		
Project Location	KKE Technology (Thailand) Co., Ltd., J14_WWT_WHARayong36_003_2569		
Sample Number	RA2604475-001		
Sampled Date	May 12, 2026 02:25 PM		
Sample Name	Wastewater		
Sampling Site	KKE Technology (Thailand) Co., Ltd.		
Contract ID	WWT_WHARayong36_003_2569		
Pilot	J.14		
Date of Analysis	May 12, 2026		
Sampled by	Nararat Thammasaro		
Condition of Sample	2x 1L Plastic Bottle, 1x Cyanide, 1x Plastic bottle - Preserved with H2SO4, 1x Plastic Bottle - Preserved with Zinc Acetate and NaOH, 1x Oil & Grease, 1x Logsheet/ data, 1x Plastic Bottle - Preserved with HClO3, 1x Plastic Bottle - Preserved with NaOH, 1x 500mL Plastic Bottle, 1x 500mL Plastic bottle - Preserved with H2SO4, 2x Amber Glass Bottle- Unpreserved, refrigerated		
Physical Properties	yellow, strong odour, lots of solids, highly turbid		

Brief Method Summaries

The methods in the analysis report are short format, refer to full test methods in accordance with the ISO/IEC 17025 certificate no. specified in the analysis report.

Method	Testing Lab	Method Descriptions
E10043	Bangkok	Based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5540 B, C
E10053	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-F (D)
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 —

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Analysis Report

Work Order	RA2604315	Date Received	May 11, 2026
Client	WHA Utilities and Power Public Company Limited	Date Reported	May 18, 2026
	27 Moo 2, Tambon Phana Nakhon, Amphoe Nakhon Phattana, Rayong, Thailand, 21100	Report Number	RA2604315-AA
Project	WHA Rayong 36		
Project Location	THAIYA CORPORATION LIMITED, J06_WWT_WHARayong36_001_2569		
Sample Number	RA2604315-001		
Sampled Date	May 11, 2026 10:00 AM		
Sample Name	Wastewater		
Sampling Site	THAIYA CORPORATION LIMITED		
Contract ID	WWT_WHARayong36_001_2569		
Pilot	J.06		
Date of Analysis	May 11, 2026		
Sampled by	Wanayoo Chingphakae (1-323-4-0020)		
Condition of Sample	1x 500mL Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet/ data, 1x 1L Plastic Bottle, refrigerated		
Physical Properties	yellow, strong odour, some solids, turbid		

Brief Method Summaries

The methods in the analysis report are short format, refer to full test methods in accordance with the ISO/IEC 17025 certificate no. specified in the analysis report.

Method	Testing Lab	Method Descriptions
E10020	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
E10044	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - D (C)
E10046	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
E10048	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
E10057	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B
E10100	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C
E10102	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	RA2604315	Date Received	May 11, 2026
Client	WHA Utilities and Power Public Company Limited	Date Reported	May 18, 2026
	27 Moo 2, Tambon Phana Nakhon, Amphoe Nakhon Phattana, Rayong, Thailand, 21100	Report Number	RA2604315-AA
Project	WHA Rayong 36		
Project Location	THAIYA CORPORATION LIMITED, J06_WWT_WHARayong36_001_2569		
Sample Number	RA2604315-001		
Sampled Date	May 11, 2026 10:00 AM		
Sample Name	Wastewater		
Sampling Site	THAIYA CORPORATION LIMITED		
Contract ID	WWT_WHARayong36_001_2569		
Pilot	J.06		
Date of Analysis	May 11, 2026		
Sampled by	Wanayoo Chingphakae (1-323-4-0020)		
Condition of Sample	1x 500mL Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet/ data, 1x 1L Plastic Bottle, refrigerated		
Physical Properties	yellow, strong odour, some solids, turbid		

Analytical Results

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	29.8	<200	E10044	Rayong
COD	mg/L	1.5	25	87	<400	E10046	Rayong
Oil & Grease	mg/L	-	3	4	≤10	E10048	Rayong
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.1	6-9	E10020	Rayong
Temperature *	°C	-	-	31.6	≤40	E10057	Rayong
Total Dissolved Solids at 180°C	mg/L	-	5	316	<3000	E10100	Rayong
Total Suspended Solids	mg/L	-	5	30	<200	E10102	Rayong

Guideline : Environmental Impact Assessment Report of WHA Rayong 36 Industrial Estate

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

Key :

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

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

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Analysis Report

Work Order	RA2604316	Date Received	May 11, 2026
Client	WHA Utilities and Power Public Company Limited	Date Reported	May 18, 2026
	27 Moo 2, Tambon Phana Nakhon, Amphoe Nakhon Phattana, Rayong, Thailand, 21100	Report Number	RA2604316-AA
Project	WHA Rayong 36		
Project Location	THAIYA CORPORATION LIMITED, J07_WWT_WHARayong36_002_2569		
Sample Number	RA2604316-001		
Sampled Date	May 11, 2026 09:55 AM		
Sample Name	Wastewater		
Sampling Site	THAIYA CORPORATION LIMITED		
Contract ID	WWT_WHARayong36_002_2569		
Pilot	J.07		
Date of Analysis	May 11, 2026		
Sampled by	Wanayoo Chingphakae (1-323-4-0020)		
Condition of Sample	1x 500mL Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet/ data, 1x 1L Plastic Bottle, refrigerated		
Physical Properties	yellow, strong odour, some solids, highly turbid		

Analytical Results

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	46.6	<200	E10044	Rayong
COD	mg/L	1.5	25	126	<400	E10046	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	E10048	Rayong
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.0	6-9	E10020	Rayong
Temperature *	°C	-	-	29.7	≤40	E10057	Rayong
Total Dissolved Solids at 180°C	mg/L	-	5	394	<3000	E10100	Rayong
Total Suspended Solids	mg/L	-	5	60	<200	E10102	Rayong

Guideline : Environmental Impact Assessment Report of WHA Rayong 36 Industrial Estate

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

Key :

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

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Analysis Report

Work Order	RA2804475	Date Received	May 12, 2026
Client	WHA Utilities and Power Public Company Limited	Date Reported	May 20, 2026
	27 Moo 2, Tambon Phana Nakhon, Amphoe Nakhon Phatham, Rayong, Thailand, 21180	Report Number	RA2804475-AA
Project	WHA Rayong 36		
Project Location	KKE Technology (Thailand) Co., Ltd., J14, WWT_WHARayong36_003_2569		
Sample Number	RA2804475-001		
Sampled Date	May 12, 2026 02:25 PM		
Sample Name	Wastewater		
Sampling Site	KKE Technology (Thailand) Co., Ltd.		
Contract ID	WWT_WHARayong36_003_2569		
Plot	J14		
Date of Analysis	May 12, 2026		
Sampled by	Narunat Thammasaro (+323-9-0052)		
Condition of Sample	2x 1L Plastic Bottle, 1x Cyanide, 1x Plastic Bottle - Preserved with H2SO4, 1x Plastic Bottle - Preserved with Zinc Acetate and NaOH, 1x Oil & Grease, 1x Lugher's data, 1x Plastic Bottle - Preserved with HClO3, 1x Plastic Bottle - Preserved with NaOH, 1x 500mL Plastic Bottle, 1x 500mL Plastic bottle - Preserved with H2SO4, 2x Amber Glass Bottle - Unpreserved, refrigerated yellow, strong odour, lots of solids, highly turbid		

Method	Testing Lab	Method Description
ME0003	Rayong	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, Calculated APHA 3120 Calculation
ME0005	Rayong	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3112 (B)
ME0006	Rayong	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3500-Cr (B)

— END OF REPORT —

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Analysis Report

Work Order	RA2804475	Date Received	May 12, 2026
Client	WHA Utilities and Power Public Company Limited	Date Reported	May 20, 2026
	27 Moo 2, Tambon Phana Nakhon, Amphoe Nakhon Phatham, Rayong, Thailand, 21180	Report Number	RA2804475-AB
Project	WHA Rayong 36		
Project Location	KKE Technology (Thailand) Co., Ltd., J14, WWT_WHARayong36_003_2569		
Sample Number	RA2804475-001		
Sampled Date	May 12, 2026 02:25 PM		
Sample Name	Wastewater		
Sampling Site	KKE Technology (Thailand) Co., Ltd.		
Contract ID	WWT_WHARayong36_003_2569		
Plot	J14		
Date of Analysis	May 18, 2026		
Sampled by	Narunat Thammasaro (+323-9-0052)		
Condition of Sample	2x 1L Plastic Bottle, 1x Cyanide, 1x Plastic Bottle - Preserved with H2SO4, 1x Plastic Bottle - Preserved with Zinc Acetate and NaOH, 1x Oil & Grease, 1x Lugher's data, 1x Plastic Bottle - Preserved with HClO3, 1x Plastic Bottle - Preserved with NaOH, 1x 500mL Plastic Bottle, 1x 500mL Plastic bottle - Preserved with H2SO4, 2x Amber Glass Bottle - Unpreserved, refrigerated yellow, strong odour, lots of solids, highly turbid		

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Pesticides - Organochlorine							
gamma-BHC - (Lindane)	µg/L	0.01	0.02	Not Detected	Not Detected	E10069	Bangkok
Heptachlor epoxide	µg/L	0.01	0.02	Not Detected	Not Detected	E10069	Bangkok
Methoxychlor	µg/L	0.01	0.02	Not Detected	Not Detected	E10069	Bangkok
Heptachlor	µg/L	0.01	0.02	Not Detected	Not Detected	E10069	Bangkok

Guideline: Environmental Impact Assessment Report of WHA Rayong 36 Industrial Estate

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

Key:
o LOD: Limit of Detection
o "<" : Lower than LOQ (Limit of Quantification) / 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 Description
E10069	Bangkok	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 8630 D, part 8410 B

— END OF REPORT —

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Analysis Report

Work Order	RA2804475	Date Received	May 12, 2026
Client	WHA Utilities and Power Public Company Limited	Date Reported	May 20, 2026
	27 Moo 2, Tambon Phana Nakhon, Amphoe Nakhon Phatham, Rayong, Thailand, 21180	Report Number	RA2804475-AB
Project	WHA Rayong 36		
Project Location	KKE Technology (Thailand) Co., Ltd., J14, WWT_WHARayong36_003_2569		
Sample Number	RA2804475-001		
Sampled Date	May 12, 2026 02:25 PM		
Sample Name	Wastewater		
Sampling Site	KKE Technology (Thailand) Co., Ltd.		
Contract ID	WWT_WHARayong36_003_2569		
Plot	J14		
Date of Analysis	May 18, 2026		
Sampled by	Narunat Thammasaro (+323-9-0052)		
Condition of Sample	2x 1L Plastic Bottle, 1x Cyanide, 1x Plastic Bottle - Preserved with H2SO4, 1x Plastic Bottle - Preserved with Zinc Acetate and NaOH, 1x Oil & Grease, 1x Lugher's data, 1x Plastic Bottle - Preserved with HClO3, 1x Plastic Bottle - Preserved with NaOH, 1x 500mL Plastic Bottle, 1x 500mL Plastic bottle - Preserved with H2SO4, 2x Amber Glass Bottle - Unpreserved, refrigerated yellow, strong odour, lots of solids, highly turbid		

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Pesticides - Organochlorine							
2,4-DDE	µg/L	0.01	0.02	Not Detected	Not Detected	E10069	Bangkok
2,4-DDE	µg/L	0.01	0.02	Not Detected	Not Detected	E10069	Bangkok
2,4-DDE	µg/L	0.01	0.02	Not Detected	Not Detected	E10069	Bangkok
4,4-DDE	µg/L	0.01	0.02	Not Detected	Not Detected	E10069	Bangkok
4,4-DDE	µg/L	0.01	0.02	Not Detected	Not Detected	E10069	Bangkok
4,4-DDE	µg/L	0.01	0.02	Not Detected	Not Detected	E10069	Bangkok
alpha-BHC	µg/L	0.01	0.02	Not Detected	Not Detected	E10069	Bangkok
beta-BHC	µg/L	0.01	0.02	Not Detected	Not Detected	E10069	Bangkok
Chlordane	µg/L	0.01	0.04	Not Detected	Not Detected	E10069	Bangkok
delta-BHC	µg/L	0.01	0.02	Not Detected	Not Detected	E10069	Bangkok
Dieldrin	µg/L	0.01	0.02	Not Detected	Not Detected	E10069	Bangkok
Endosulfan I (alpha isomer)	µg/L	0.01	0.02	Not Detected	Not Detected	E10069	Bangkok
Endosulfan II (beta isomer)	µg/L	0.01	0.02	Not Detected	Not Detected	E10069	Bangkok
Endrin aldehyde	µg/L	0.01	0.02	Not Detected	Not Detected	E10069	Bangkok
Endrin	µg/L	0.01	0.02	Not Detected	Not Detected	E10069	Bangkok

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Analysis Report

Work Order	RA2804475	Date Received	May 12, 2026
Client	WHA Utilities and Power Public Company Limited	Date Reported	May 20, 2026
	27 Moo 2, Tambon Phana Nakhon, Amphoe Nakhon Phatham, Rayong, Thailand, 21180	Report Number	RA2804475-AC
Project	WHA Rayong 36		
Project Location	KKE Technology (Thailand) Co., Ltd., J14, WWT_WHARayong36_003_2569		
Sample Number	RA2804475-001		
Sampled Date	May 12, 2026 02:25 PM		
Sample Name	Wastewater		
Sampling Site	KKE Technology (Thailand) Co., Ltd.		
Contract ID	WWT_WHARayong36_003_2569		
Plot	J14		
Date of Analysis	May 12, 2026		
Sampled by	Narunat Thammasaro		
Condition of Sample	2x 1L Plastic Bottle, 1x Cyanide, 1x Plastic Bottle - Preserved with H2SO4, 1x Plastic Bottle - Preserved with Zinc Acetate and NaOH, 1x Oil & Grease, 1x Lugher's data, 1x Plastic Bottle - Preserved with HClO3, 1x Plastic Bottle - Preserved with NaOH, 1x 500mL Plastic Bottle, 1x 500mL Plastic bottle - Preserved with H2SO4, 2x Amber Glass Bottle - Unpreserved, refrigerated yellow, strong odour, lots of solids, highly turbid		

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
Anionic Surfactants as MSAS *	mg/L	-	0.05	15.3	<30	E10043	Bangkok
Fluoride *	mg/L	-	0.2	0.8	≤5	E10253	Rayong
Metals and Major Cations - Total							
Iron	mg/L	0.005	0.01	14.3	≤10	ME0002	Rayong
Silver	mg/L	0.005	0.01	Not Detected	≤1	ME0002	Rayong

Guideline: Environmental Impact Assessment Report of WHA Rayong 36 Industrial Estate

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

Key:
o LOD: Limit of Detection
o "<" : Lower than LOQ (Limit of Quantification) / LOR (Limit of Reporting)
o Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025

Signatories

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Analysis Report

Work Order	RA2804475	Date Received	May 12, 2026
Client	WHA Utilities and Power Public Company Limited	Date Reported	May 20, 2026
	27 Moo 2, Tambon Phana Nakhon, Amphoe Nakhon Phatham, Rayong, Thailand, 21100	Report Number	RA2804475-AA
Project	WHA Rayong 36		
Project Location	KKE Technology (Thailand) Co., Ltd., J14, WWT_WHARayong36_003_2569		
Sample Number	RA2804475-001		
Sample Date	May 12, 2026 02:25 PM		
Sample Name	Wastewater		
Sampling Site	KKE Technology (Thailand) Co., Ltd.		
Contract ID	WWT_WHARayong36_003_2569		
Pilot	J14		
Date of Analysis	May 12, 2026		
Sampled by	Nannat Thammasaro (+323-9-0052)		
Condition of Sample	2x 1L Plastic Bottle, 1x Cyanide, 1x Plastic Bottle - Preserved with H2SO4, 1x Plastic Bottle - Preserved with Zinc Acetate and NaOH, 1x Oil & Grease, 1x Lugher's data, 1x Plastic Bottle - Preserved with HClO, 1x Plastic Bottle - Preserved with NaOH, 1x 500mL Plastic Bottle, 1x 500mL Plastic bottle - Preserved with H2SO4, 2x Amber Glass Bottle - Unpreserved, refrigerated 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	164	<200	E10044	Rayong
COD	mg/L	1.5	25	482	<400	E10046	Rayong
Cyanide as HCN	mg/L	0.001	0.005	Not Detected	<0.2	E10005	Rayong
Formaldehyde	mg/L	0.03	0.1	0.1	<1	E10010	Rayong
Oil & Grease	mg/L	-	3	9	<10	E10048	Rayong
Phenol	mg/L	0.005	0.010	0.442	<1	E10051	Rayong
Residual Free Chlorine *	mg/L	-	0.1	<0.1	<1	E10027	Rayong
Sulfides *	mg/L	-	0.5	0.6	<1	E10032	Rayong
Total Kjeldahl Nitrogen as N	mg/L	-	1.0	201	<100	E10026	Rayong
Metals and Major Cations							
Hexavalent Chromium	mg/L	0.003	0.01	Not Detected	<0.25	ME0006	Rayong
Metals and Major Cations - Total							
Arsenic	mg/L	0.002	0.005	Not Detected	<0.25	ME0002	Rayong
Barium	mg/L	0.002	0.005	0.303	<1	ME0002	Rayong
Cadmium	mg/L	0.001	0.002	Not Detected	<0.03	ME0002	Rayong
Copper	mg/L	0.005	0.01	0.04	<2	ME0002	Rayong

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Analysis Report

Work Order	RA2804475	Date Received	May 12, 2026
Client	WHA Utilities and Power Public Company Limited	Date Reported	May 20, 2026
	27 Moo 2, Tambon Phana Nakhon, Amphoe Nakhon Phatham, Rayong, Thailand, 21100	Report Number	RA2804475-AA
Project	WHA Rayong 36		
Project Location	KKE Technology (Thailand) Co., Ltd., J14, WWT_WHARayong36_003_2569		
Sample Number	RA2804475-001		
Sample Date	May 12, 2026 02:25 PM		
Sample Name	Wastewater		
Sampling Site	KKE Technology (Thailand) Co., Ltd.		
Contract ID	WWT_WHARayong36_003_2569		
Pilot	J14		
Date of Analysis	May 12, 2026		
Sampled by	Nannat Thammasaro (+323-9-0052)		
Condition of Sample	2x 1L Plastic Bottle, 1x Cyanide, 1x Plastic Bottle - Preserved with H2SO4, 1x Plastic Bottle - Preserved with Zinc Acetate and NaOH, 1x Oil & Grease, 1x Lugher's data, 1x Plastic Bottle - Preserved with HClO, 1x Plastic Bottle - Preserved with NaOH, 1x 500mL Plastic Bottle, 1x 500mL Plastic bottle - Preserved with H2SO4, 2x Amber Glass Bottle - Unpreserved, refrigerated yellow, strong odour, lots of solids, highly turbid		

Physical Properties	
Key	- LOD - Limit of Detection * - Lower than LOQ (Limit of Quantification) / LOR (Limit of Reporting) - Analysis marked * is/are not included in scope of Accreditation ISO/IEC 17025

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	Method Descriptions
E10005	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2024, part 4500 - CN (C), E
E10010	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
E10009	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - CI (F)
E10007	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - SI (C), F
E10002	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
E10048	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
E10048	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
E10051	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5530 B, D
E10080	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2120 F
E10097	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B
E10100	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C
E10102	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D
E10026	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-Norg (C), part 1040 (D)
ME0002	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	RA2804475	Date Received	May 12, 2026
Client	WHA Utilities and Power Public Company Limited	Date Reported	May 20, 2026
	27 Moo 2, Tambon Phana Nakhon, Amphoe Nakhon Phatham, Rayong, Thailand, 21100	Report Number	RA2804475-AA
Project	WHA Rayong 36		
Project Location	KKE Technology (Thailand) Co., Ltd., J14, WWT_WHARayong36_003_2569		
Sample Number	RA2804475-001		
Sample Date	May 12, 2026 02:25 PM		
Sample Name	Wastewater		
Sampling Site	KKE Technology (Thailand) Co., Ltd.		
Contract ID	WWT_WHARayong36_003_2569		
Pilot	J14		
Date of Analysis	May 12, 2026		
Sampled by	Nannat Thammasaro (+323-9-0052)		
Condition of Sample	2x 1L Plastic Bottle, 1x Cyanide, 1x Plastic Bottle - Preserved with H2SO4, 1x Plastic Bottle - Preserved with Zinc Acetate and NaOH, 1x Oil & Grease, 1x Lugher's data, 1x Plastic Bottle - Preserved with HClO, 1x Plastic Bottle - Preserved with NaOH, 1x 500mL Plastic Bottle, 1x 500mL Plastic bottle - Preserved with H2SO4, 2x Amber Glass Bottle - Unpreserved, refrigerated yellow, strong odour, lots of solids, highly turbid		

Analytical Results							
Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Metals and Major Cations - Total							
Lead	mg/L	0.002	0.005	0.044	<0.2	ME0002	Rayong
Manganese	mg/L	0.001	0.002	0.291	<5	ME0002	Rayong
Mercury	mg/L	0.0001	0.0005	<0.0005	<0.005	ME0005	Rayong
Nickel	mg/L	0.002	0.005	0.016	<1	ME0002	Rayong
Selenium	mg/L	0.005	0.01	Not Detected	<0.02	ME0002	Rayong
Trivalent Chromium	mg/L	-	0.01	0.03	<0.75	ME0003	Rayong
Zinc	mg/L	0.005	0.01	0.52	<5	ME0002	Rayong
Physical and Aggregate Properties							
Color (at Original pH)	ADMI	-	5	121	<500	E10089	Rayong
Color (at pH 7.0)	ADMI	-	5	127	<500	E10089	Rayong
pH - Field *	pH - Field	-	1.0	8.3	6-9	E10029	Rayong
Temperature *	°C	-	-	30.9	<40	E10097	Rayong
Total Dissolved Solids at 180°C	mg/L	-	5	588	<3000	E10100	Rayong
Total Suspended Solids	mg/L	-	5	276	<200	E10102	Rayong

Guideline: Environmental Impact Assessment Report of WHA Rayong 36 Industrial Estate
Comment: Sampling is not included in scope of accreditation ISO/IEC 17025

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Analysis Report

Work Order	RA2804475	Date Received	May 12, 2026
Client	WHA Utilities and Power Public Company Limited	Date Reported	May 20, 2026
	27 Moo 2, Tambon Phana Nakhon, Amphoe Nakhon Phatham, Rayong, Thailand, 21100	Report Number	RA2804475-AA
Project	WHA Rayong 36		
Project Location	KKE Technology (Thailand) Co., Ltd., J14, WWT_WHARayong36_003_2569		
Sample Number	RA2804475-001		
Sample Date	May 12, 2026 02:25 PM		
Sample Name	Wastewater		
Sampling Site	KKE Technology (Thailand) Co., Ltd.		
Contract ID	WWT_WHARayong36_003_2569		
Pilot	J14		
Date of Analysis	May 12, 2026		
Sampled by	Nannat Thammasaro (+323-9-0052)		
Condition of Sample	2x 1L Plastic Bottle, 1x Cyanide, 1x Plastic Bottle - Preserved with H2SO4, 1x Plastic Bottle - Preserved with Zinc Acetate and NaOH, 1x Oil & Grease, 1x Lugher's data, 1x Plastic Bottle - Preserved with HClO, 1x Plastic Bottle - Preserved with NaOH, 1x 500mL Plastic Bottle, 1x 500mL Plastic bottle - Preserved with H2SO4, 2x Amber Glass Bottle - Unpreserved, refrigerated yellow, strong odour, lots of solids, highly turbid		

Brief Method Summaries	
The methods in the analysis report are short format, refer to full test methods in accordance with the ISO/IEC 17025 certificate no. specified in the analysis report.	
Method	Method Descriptions
E10005	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2024, part 4500 - CN (C), E
E10010	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
E10009	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - CI (F)
E10007	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - SI (C), F
E10002	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
E10048	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
E10048	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
E10051	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5530 B, D
E10080	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2120 F
E10097	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B
E10100	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C
E10102	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D
E10026	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-Norg (C), part 1040 (D)
ME0002	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3120 B, 3030 F

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

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TESTING
No.0009

Analysis Report

Work Order	RA2804314	Date Received	May 11, 2026
Client	WHA Utilities and Power Public Company Limited	Date Reported	May 19, 2026
	27 Moo 2, Tambon Phana Nakhon, Amphoe Nakhon Phatham, Rayong, Thailand, 21100	Report Number	RA2804314-AB
Project	WHA Rayong 36		
Project Location	THAIYA CORPORATION LIMITED, J05_WWT_WHARayong36_003_2567		
Sample Number	RA2804314-001		
Sampled Date	May 11, 2026 09:45 AM		
Sample Name	Wastewater		
Sampling Site	THAIYA CORPORATION LIMITED		
Contract ID	WWT_WHARayong36_003_2567		
Pilot	J.05		
Date of Analysis	May 18, 2026		
Sampled by	Akkarit Budsaktee (+204-4-0196) Wanayon Chimpahaler (+323-4-0020)		
Condition of Sample	2x 1L Plastic Bottle, 1x Cyanide, 1x Plastic Bottle - Preserved with H2SO4, 1x Plastic Bottle - Preserved with Zinc Acetate and NaOH, 1x Oil & Grease, 1x Logsheet/ data, 1x Plastic Bottle - Preserved with HClO3, 1x Plastic Bottle - Preserved with NaOH, 1x 500mL Plastic Bottle, 1x 500mL Plastic bottle - Preserved with H2SO4, 2x Amber Glass Bottle- Unpreserved/refrigerated yellow, strong odour, lots of solids, turbid		

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Pesticides - Organochlorine							
Endrin	µg/L	0.01	0.02	Not Detected	Not Detected	EN0069	Bangkok
gamma-BHC (Lindane)	µg/L	0.01	0.02	Not Detected	Not Detected	EN0069	Bangkok
Heptachlor epoxide	µg/L	0.01	0.02	Not Detected	Not Detected	EN0069	Bangkok
Methoxychlor	µg/L	0.01	0.02	Not Detected	Not Detected	EN0069	Bangkok
Heptachlor	µg/L	0.01	0.02	Not Detected	Not Detected	EN0069	Bangkok

Guideline: Environmental Impact Assessment Report of WHA Rayong 36 Industrial Estate

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

- Key:
- LOD: Limit of Detection
 - LOQ: 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
EN0069	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 6630 D, part 6410 B

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Analysis Report

Work Order	RA2804314	Date Received	May 11, 2026
Client	WHA Utilities and Power Public Company Limited	Date Reported	May 19, 2026
	27 Moo 2, Tambon Phana Nakhon, Amphoe Nakhon Phatham, Rayong, Thailand, 21100	Report Number	RA2804314-AC
Project	WHA Rayong 36		
Project Location	THAIYA CORPORATION LIMITED, J05_WWT_WHARayong36_003_2567		
Sample Number	RA2804314-001		
Sampled Date	May 11, 2026 09:45 AM		
Sample Name	Wastewater		
Sampling Site	THAIYA CORPORATION LIMITED		
Contract ID	WWT_WHARayong36_003_2567		
Pilot	J.05		
Date of Analysis	May 12, 2026		
Sampled by	Akkarit Budsaktee Wanayon Chimpahaler		
Condition of Sample	2x 1L Plastic Bottle, 1x Cyanide, 1x Plastic Bottle - Preserved with H2SO4, 1x Plastic Bottle - Preserved with Zinc Acetate and NaOH, 1x Oil & Grease, 1x Logsheet/ data, 1x Plastic Bottle - Preserved with HClO3, 1x Plastic Bottle - Preserved with NaOH, 1x 500mL Plastic Bottle, 1x 500mL Plastic bottle - Preserved with H2SO4, 2x Amber Glass Bottle- Unpreserved/refrigerated yellow, strong odour, lots of solids, turbid		

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
Asiatic Surfactants as MBAS	mg/L	-	0.05	15.5	≤30	EN0043	Bangkok
Fluoride	mg/L	-	0.2	<0.2	≤5	EN0253	Rayong
Metals and Major Cations - Total							
Iron	mg/L	0.005	0.01	0.30	≤10	ME0002	Rayong
Silver	mg/L	0.005	0.01	Not Detected	≤1	ME0002	Rayong

Guideline: Environmental Impact Assessment Report of WHA Rayong 36 Industrial Estate

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

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

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TESTING
No.0009

Analysis Report

Work Order	RA2804314	Date Received	May 11, 2026
Client	WHA Utilities and Power Public Company Limited	Date Reported	May 19, 2026
	27 Moo 2, Tambon Phana Nakhon, Amphoe Nakhon Phatham, Rayong, Thailand, 21100	Report Number	RA2804314-AB
Project	WHA Rayong 36		
Project Location	THAIYA CORPORATION LIMITED, J05_WWT_WHARayong36_003_2567		
Sample Number	RA2804314-001		
Sampled Date	May 11, 2026 09:45 AM		
Sample Name	Wastewater		
Sampling Site	THAIYA CORPORATION LIMITED		
Contract ID	WWT_WHARayong36_003_2567		
Pilot	J.05		
Date of Analysis	May 18, 2026		
Sampled by	Akkarit Budsaktee (+204-4-0196) Wanayon Chimpahaler (+323-4-0020)		
Condition of Sample	2x 1L Plastic Bottle, 1x Cyanide, 1x Plastic Bottle - Preserved with H2SO4, 1x Plastic Bottle - Preserved with Zinc Acetate and NaOH, 1x Oil & Grease, 1x Logsheet/ data, 1x Plastic Bottle - Preserved with HClO3, 1x Plastic Bottle - Preserved with NaOH, 1x 500mL Plastic Bottle, 1x 500mL Plastic bottle - Preserved with H2SO4, 2x Amber Glass Bottle- Unpreserved/refrigerated yellow, strong odour, lots of solids, turbid		

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Pesticides - Organochlorine							
Endrin	µg/L	0.01	0.02	Not Detected	Not Detected	EN0069	Bangkok
gamma-BHC (Lindane)	µg/L	0.01	0.02	Not Detected	Not Detected	EN0069	Bangkok
Heptachlor epoxide	µg/L	0.01	0.02	Not Detected	Not Detected	EN0069	Bangkok
Methoxychlor	µg/L	0.01	0.02	Not Detected	Not Detected	EN0069	Bangkok
Heptachlor	µg/L	0.01	0.02	Not Detected	Not Detected	EN0069	Bangkok

Guideline: Environmental Impact Assessment Report of WHA Rayong 36 Industrial Estate

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

- Key:
- LOD: Limit of Detection
 - LOQ: 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
EN0069	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 6630 D, part 6410 B

Signatories

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Analysis Report

Work Order	RA2804314	Date Received	May 11, 2026
Client	WHA Utilities and Power Public Company Limited	Date Reported	May 19, 2026
	27 Moo 2, Tambon Phana Nakhon, Amphoe Nakhon Phatham, Rayong, Thailand, 21100	Report Number	RA2804314-AC
Project	WHA Rayong 36		
Project Location	THAIYA CORPORATION LIMITED, J05_WWT_WHARayong36_003_2567		
Sample Number	RA2804314-001		
Sampled Date	May 11, 2026 09:45 AM		
Sample Name	Wastewater		
Sampling Site	THAIYA CORPORATION LIMITED		
Contract ID	WWT_WHARayong36_003_2567		
Pilot	J.05		
Date of Analysis	May 12, 2026		
Sampled by	Akkarit Budsaktee Wanayon Chimpahaler		
Condition of Sample	2x 1L Plastic Bottle, 1x Cyanide, 1x Plastic Bottle - Preserved with H2SO4, 1x Plastic Bottle - Preserved with Zinc Acetate and NaOH, 1x Oil & Grease, 1x Logsheet/ data, 1x Plastic Bottle - Preserved with HClO3, 1x Plastic Bottle - Preserved with NaOH, 1x 500mL Plastic Bottle, 1x 500mL Plastic bottle - Preserved with H2SO4, 2x Amber Glass Bottle- Unpreserved/refrigerated yellow, strong odour, lots of solids, turbid		

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
Asiatic Surfactants as MBAS	mg/L	-	0.05	15.5	≤30	EN0043	Bangkok
Fluoride	mg/L	-	0.2	<0.2	≤5	EN0253	Rayong
Metals and Major Cations - Total							
Iron	mg/L	0.005	0.01	0.30	≤10	ME0002	Rayong
Silver	mg/L	0.005	0.01	Not Detected	≤1	ME0002	Rayong

Guideline: Environmental Impact Assessment Report of WHA Rayong 36 Industrial Estate

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

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

Signatories

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TESTING
No.0042

Analysis Report

Work Order	RA2804314	Date Received	May 11, 2026
Client	WHA Utilities and Power Public Company Limited 27 Moo 2, Tambon Phana Nakhon, Amphoe Nakhon Phatham, Rayong, Thailand, 21180	Date Reported	May 19, 2026
Project	WHA Rayong 36	Report Number	RA2804314-AA
Project Location	THAIYA CORPORATION LIMITED, J05_WWT_WHARayong36_003_2567		
Sample Number	RA2804314-001		
Sampled Date	May 11, 2026 09:45 AM		
Sample Name	Wastewater		
Sampling Site	THAIYA CORPORATION LIMITED		
Contract ID	WWT_WHARayong36_003_2567		
Pilot	J.05		
Date of Analysis	May 11, 2026		
Sampled by	Atkarin Buduakkee (+204-4-0196) Wanmyoo Chiraphaler (+323-4-0020)		
Condition of Sample	2x 1L Plastic Bottle, 1x Cyanide, 1x Plastic Bottle - Preserved with H2SO4, 1x Plastic Bottle - Preserved with Zinc Acetate and NaOH, 1x Oil & Grease, 1x Loghead/ data, 1x Plastic Bottle - Preserved with HNO3, 1x Plastic Bottle - Preserved with NaOH, 1x 500mL Plastic Bottle, 1x 500mL Plastic bottle - Preserved with H2SO4, 2x Amber Glass Bottle- Unpreserved/refrigerated yellow, strong odour, lots of solids, turbid		
Physical Properties	Guideline: Environmental Impact Assessment Report of WHA Rayong 36 Industrial Estate Comment: Sampling is not included in scope of accreditation ISO/IEC 17025 Key: - LOD: Limit of Detection <L: Lower than LOD (Limit of Quantitation) / LOR (Limit of Reporting) - Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025		

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TESTING
No.0042

Analysis Report

Work Order	RA2804314	Date Received	May 11, 2026
Client	WHA Utilities and Power Public Company Limited 27 Moo 2, Tambon Phana Nakhon, Amphoe Nakhon Phatham, Rayong, Thailand, 21180	Date Reported	May 19, 2026
Project	WHA Rayong 36	Report Number	RA2804314-AA
Project Location	THAIYA CORPORATION LIMITED, J05_WWT_WHARayong36_003_2567		
Sample Number	RA2804314-001		
Sampled Date	May 11, 2026 09:45 AM		
Sample Name	Wastewater		
Sampling Site	THAIYA CORPORATION LIMITED		
Contract ID	WWT_WHARayong36_003_2567		
Pilot	J.05		
Date of Analysis	May 11, 2026		
Sampled by	Atkarin Buduakkee (+204-4-0196) Wanmyoo Chiraphaler (+323-4-0020)		
Condition of Sample	2x 1L Plastic Bottle, 1x Cyanide, 1x Plastic Bottle - Preserved with H2SO4, 1x Plastic Bottle - Preserved with Zinc Acetate and NaOH, 1x Oil & Grease, 1x Loghead/ data, 1x Plastic Bottle - Preserved with HNO3, 1x Plastic Bottle - Preserved with NaOH, 1x 500mL Plastic Bottle, 1x 500mL Plastic bottle - Preserved with H2SO4, 2x Amber Glass Bottle- Unpreserved/refrigerated yellow, strong odour, lots of solids, turbid		
Physical Properties	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 ME0003 Rayong Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, Calculated APHA 3120 Calculation ME0005 Rayong Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3112 (B) ME0008 Rayong Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3500-Cr (B)		

END OF REPORT

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TESTING
No.0042

Analysis Report

Work Order	RA2804314	Date Received	May 11, 2026
Client	WHA Utilities and Power Public Company Limited 27 Moo 2, Tambon Phana Nakhon, Amphoe Nakhon Phatham, Rayong, Thailand, 21180	Date Reported	May 19, 2026
Project	WHA Rayong 36	Report Number	RA2804314-AA
Project Location	THAIYA CORPORATION LIMITED, J05_WWT_WHARayong36_003_2567		
Sample Number	RA2804314-001		
Sampled Date	May 11, 2026 09:45 AM		
Sample Name	Wastewater		
Sampling Site	THAIYA CORPORATION LIMITED		
Contract ID	WWT_WHARayong36_003_2567		
Pilot	J.05		
Date of Analysis	May 11, 2026		
Sampled by	Atkarin Buduakkee (+204-4-0196) Wanmyoo Chiraphaler (+323-4-0020)		
Condition of Sample	2x 1L Plastic Bottle, 1x Cyanide, 1x Plastic Bottle - Preserved with H2SO4, 1x Plastic Bottle - Preserved with Zinc Acetate and NaOH, 1x Oil & Grease, 1x Loghead/ data, 1x Plastic Bottle - Preserved with HNO3, 1x Plastic Bottle - Preserved with NaOH, 1x 500mL Plastic Bottle, 1x 500mL Plastic bottle - Preserved with H2SO4, 2x Amber Glass Bottle- Unpreserved/refrigerated yellow, strong odour, lots of solids, turbid		
Physical Properties	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	
E10005	Rayong	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2024, part 4500 - CN (C), E	
E10016	Rayong	Wastewater analysis manual, Environmental Engineering Association of Thailand, 4th ed., 2004	
E10026	Rayong	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	
E10027	Rayong	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - Cl (F)	
E10032	Rayong	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - S2 (C, F)	
E10044	Rayong	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - D (G)	
E10048	Rayong	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	
E10049	Rayong	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	
E10051	Rayong	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5530 B, D	
E10080	Rayong	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2120 F	
E10097	Rayong	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	
E10100	Rayong	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	
E10102	Rayong	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	
E10228	Rayong	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500-Hong (C), part 1840 (D)	

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TESTING
No.0009

Analysis Report

Work Order	RA2804314	Date Received	May 11, 2026				
Client	WHA Utilities and Power Public Company Limited 27 Moo 2, Tambon Phana Nakhon, Amphoe Nakhon Phatham, Rayong, Thailand, 21180	Date Reported	May 19, 2026				
Project	WHA Rayong 36	Report Number	RA2804314-AB				
Project Location	THAIYA CORPORATION LIMITED, J05_WWT_WHARayong36_003_2567						
Sample Number	RA2804314-001						
Sampled Date	May 11, 2026 09:45 AM						
Sample Name	Wastewater						
Sampling Site	THAIYA CORPORATION LIMITED						
Contract ID	WWT_WHARayong36_003_2567						
Pilot	J05						
Date of Analysis	May 18, 2026						
Sampled by	Atkarin Buduakkee (+204-4-0196) Wanmyoo Chiraphaler (+323-4-0020)						
Condition of Sample	2x 1L Plastic Bottle, 1x Cyanide, 1x Plastic Bottle - Preserved with H2SO4, 1x Plastic Bottle - Preserved with Zinc Acetate and NaOH, 1x Oil & Grease, 1x Loghead/ data, 1x Plastic Bottle - Preserved with HNO3, 1x Plastic Bottle - Preserved with NaOH, 1x 500mL Plastic Bottle, 1x 500mL Plastic bottle - Preserved with H2SO4, 2x Amber Glass Bottle- Unpreserved/refrigerated yellow, strong odour, lots of solids, turbid						
Physical Properties							
Analytical Results							
Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Pesticides - Organochlorine							
2,4-DDD	µg/L	0.01	0.02	Not Detected	Not Detected	E10069	Bangkok
2,4-DDE	µg/L	0.01	0.02	Not Detected	Not Detected	E10069	Bangkok
2,4-DDT	µg/L	0.01	0.02	Not Detected	Not Detected	E10069	Bangkok
4,4-DDD	µg/L	0.01	0.02	Not Detected	Not Detected	E10069	Bangkok
4,4-DDE	µg/L	0.01	0.02	Not Detected	Not Detected	E10069	Bangkok
4,4-DDT	µg/L	0.01	0.02	Not Detected	Not Detected	E10069	Bangkok
Aldrin	µg/L	0.01	0.02	Not Detected	Not Detected	E10069	Bangkok
alpha-BHC	µg/L	0.01	0.02	Not Detected	Not Detected	E10069	Bangkok
beta-BHC	µg/L	0.01	0.02	Not Detected	Not Detected	E10069	Bangkok
Chlordane	µg/L	0.01	0.04	Not Detected	Not Detected	E10069	Bangkok
delta-BHC	µg/L	0.01	0.02	Not Detected	Not Detected	E10069	Bangkok
Dieldrin	µg/L	0.01	0.02	Not Detected	Not Detected	E10069	Bangkok
Endosulfan I (alpha isomer)	µg/L	0.01	0.02	Not Detected	Not Detected	E10069	Bangkok
Endosulfan II (beta isomer)	µg/L	0.01	0.02	Not Detected	Not Detected	E10069	Bangkok
Endrin aldehyde	µg/L	0.01	0.02	Not Detected	Not Detected	E10069	Bangkok

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

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Analysis Report

Work Order : RA2804312
Client : WHA Utilities and Power Public Company Limited
27 Moo 2, Tambon Phana Nakhon, Amphoe Nakhon Phatham, Rayong,
Thailand, 21100
Project : WHA Rayong 36
Project Location : Silverspark Development (Thailand) Co., Ltd., J12, WWT_WHARayong36_013_2567

Date Received : May 11, 2026
Date Reported : May 18, 2026
Report Number : RA2804312-AA

Sample Number : RA2804312-001
Sampled Date : May 11, 2026 11:00 AM
Sample Name : Wastewater
Sampling Site : Silverspark Development (Thailand) Co., Ltd.
Contract ID : WWT_WHARayong36_013_2567
Plot : J12
Date of Analysis : May 11, 2026
Sampled by : Wanayoo Chiraphakkei (1-323-4-0020)
Condition of Sample : 1x 500mL Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet/ data, 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	45.4	≤200	EN6044	Rayong
COD	mg/L	1.5	25	188	≤400	EN6046	Rayong
Oil & Grease	mg/L	-	3	4	≤10	EN6048	Rayong
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.4	6-9	EN6020	Rayong
Temperature *	°C	-	-	32.2	≤40	EN6097	Rayong
Total Dissolved Solids at 180°C	mg/L	-	5	404	≤3000	EN6100	Rayong
Total Suspended Solids	mg/L	-	5	21	≤200	EN6102	Rayong

Guideline : Environmental Impact Assessment Report of WHA Rayong 36 Industrial Estate
Comment : Sampling is not included in scope of accreditation ISO/IEC 17025
Key :

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

Signatories

Jitsupa P.

Jitsupa Prathansuk
Scientist (2)
1-323-4-0004

Dej Changchon

Dej Changchon
Senior Manager
1-323-4-0001

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Analysis Report

Work Order : RA2804314
Client : WHA Utilities and Power Public Company Limited
27 Moo 2, Tambon Phana Nakhon, Amphoe Nakhon Phatham, Rayong,
Thailand, 21100
Project : WHA Rayong 36
Project Location : THAIYA CORPORATION LIMITED, J05, WWT_WHARayong36_003_2567

Date Received : May 11, 2026
Date Reported : May 19, 2026
Report Number : RA2804314-AA

Sample Number : RA2804314-001
Sampled Date : May 11, 2026 09:45 AM
Sample Name : Wastewater
Sampling Site : THAIYA CORPORATION LIMITED
Contract ID : WWT_WHARayong36_003_2567
Plot : J05
Date of Analysis : May 11, 2026
Sampled by : Akkarin Budhuakkei (1-204-4-0196)
Wanayoo Chiraphakkei (1-323-4-0020)
Condition of Sample : 2x 1L Plastic Bottle, 1x Cyanide, 1x Plastic bottle - Preserved with H2SO4, 1x Plastic Bottle - Preserved with Zinc Acetate and NaOH, 1x Oil & Grease, 1x Logsheet/ data, 1x Plastic Bottle - Preserved with HClO3, 1x Plastic Bottle - Preserved with NaOH, 1x 500mL Plastic Bottle, 1x 500mL Plastic bottle - Preserved with H2SO4, 2x Amber Glass Bottle - Unpreserved/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	129	≤200	EN6044	Rayong
COD	mg/L	1.5	25	282	≤400	EN6046	Rayong
Cyanide as HCN	mg/L	0.001	0.005	Not Detected	≤0.2	EN6005	Rayong
Formaldehyde	mg/L	0.03	0.1	<0.1	≤1	EN6010	Rayong
Oil & Grease	mg/L	-	3	5	≤10	EN6048	Rayong
Phenol	mg/L	0.005	0.010	0.200	≤1	EN6051	Rayong
Residual Free Chlorine *	mg/L	-	0.1	<0.1	≤1	EN6027	Rayong
Sulfides *	mg/L	-	0.5	2.4	≤1	EN6032	Rayong
Total Kjeldahl Nitrogen as N	mg/L	-	1.0	125	≤100	EN6026	Rayong
Metals and Major Cations							
Hexavalent Chromium *	mg/L	0.003	0.01	Not Detected	≤0.25	ME0090	Rayong
Metals and Major Cations - Total							
Arsenic *	mg/L	0.002	0.005	Not Detected	≤0.25	ME0002	Rayong
Barium *	mg/L	0.002	0.005	0.087	≤1	ME0002	Rayong
Cadmium *	mg/L	0.001	0.002	Not Detected	≤0.03	ME0002	Rayong

Signatories

Phothchana S.

Phothchana Seeda
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1-323-4-0028

Dej Changchon

Dej Changchon
Senior Manager
1-323-4-0001

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

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Analysis Report

Work Order : RA2804312
Client : WHA Utilities and Power Public Company Limited
27 Moo 2, Tambon Phana Nakhon, Amphoe Nakhon Phatham, Rayong,
Thailand, 21100
Project : WHA Rayong 36
Project Location : Silverspark Development (Thailand) Co., Ltd., J12, WWT_WHARayong36_013_2567

Date Received : May 11, 2026
Date Reported : May 18, 2026
Report Number : RA2804312-AA

Sample Number : RA2804312-001
Sampled Date : May 11, 2026 11:00 AM
Sample Name : Wastewater
Sampling Site : Silverspark Development (Thailand) Co., Ltd.
Contract ID : WWT_WHARayong36_013_2567
Plot : J12
Date of Analysis : May 11, 2026
Sampled by : Wanayoo Chiraphakkei (1-323-4-0020)
Condition of Sample : 1x 500mL Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet/ data, 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 certificate no. specified in the analysis report.

Method	Testing Lab	Method Description
EN60025	Rayong	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN6004	Rayong	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (C)
EN6046	Rayong	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN6048	Rayong	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN6097	Rayong	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 2550 B
EN6100	Rayong	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 2540 C
EN6102	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

Work Order : RA2804314
Client : WHA Utilities and Power Public Company Limited
27 Moo 2, Tambon Phana Nakhon, Amphoe Nakhon Phatham, Rayong,
Thailand, 21100
Project : WHA Rayong 36
Project Location : THAIYA CORPORATION LIMITED, J05, WWT_WHARayong36_003_2567

Date Received : May 11, 2026
Date Reported : May 19, 2026
Report Number : RA2804314-AA

Sample Number : RA2804314-001
Sampled Date : May 11, 2026 09:45 AM
Sample Name : Wastewater
Sampling Site : THAIYA CORPORATION LIMITED
Contract ID : WWT_WHARayong36_003_2567
Plot : J05
Date of Analysis : May 11, 2026
Sampled by : Akkarin Budhuakkei (1-204-4-0196)
Wanayoo Chiraphakkei (1-323-4-0020)
Condition of Sample : 2x 1L Plastic Bottle, 1x Cyanide, 1x Plastic bottle - Preserved with H2SO4, 1x Plastic Bottle - Preserved with Zinc Acetate and NaOH, 1x Oil & Grease, 1x Logsheet/ data, 1x Plastic Bottle - Preserved with HClO3, 1x Plastic Bottle - Preserved with NaOH, 1x 500mL Plastic Bottle, 1x 500mL Plastic bottle - Preserved with H2SO4, 2x Amber Glass Bottle - Unpreserved/refrigerated
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							
Copper *	mg/L	0.005	0.01	<0.01	≤2	ME0002	Rayong
Lead *	mg/L	0.002	0.005	<0.005	≤0.2	ME0002	Rayong
Manganese *	mg/L	0.001	0.002	0.086	≤5	ME0002	Rayong
Mercury *	mg/L	0.0001	0.0005	Not Detected	≤0.005	ME0005	Rayong
Nickel *	mg/L	0.002	0.005	<0.005	≤1	ME0002	Rayong
Selenium *	mg/L	0.005	0.01	Not Detected	≤0.02	ME0002	Rayong
Trivalent Chromium *	mg/L	-	0.01	<0.01	≤0.75	ME0003	Rayong
Zinc *	mg/L	0.005	0.01	0.05	≤5	ME0002	Rayong
Physical and Aggregate Properties							
Color (at Original pH)	ADMI	-	5	63	≤600	EN6080	Rayong
Color (at pH 7.0)	ADMI	-	5	59	≤600	EN6080	Rayong
pH - Field *	pH Unit	-	1.0	6.9	6-9	EN6020	Rayong
Temperature *	°C	-	-	31.1	≤40	EN6097	Rayong
Total Dissolved Solids at 180°C	mg/L	-	5	416	≤3000	EN6100	Rayong
Total Suspended Solids	mg/L	-	5	52	≤200	EN6102	Rayong

Signatories

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TESTING
No.0042

Analysis Report

Work Order : RA2804309
Client : WHA Utilities and Power Public Company Limited
27 Moo 2, Tambon Phana Nakhon, Amphoe Nakhon Phatham, Rayong,
Thailand, 21100
Project : WHA Rayong 36
Project Location : TAWAY Electric Company Limited, J.09_WWT_WHARayong36_004_2567
Sample Number : RA2804309-001
Sampled Date : May 11, 2026 11:15 AM
Sample Name : Wastewater
Sampling Site : TAWAY Electric Company Limited
Contract ID : WWT_WHARayong36_004_2567
Plot : J.09
Date of Analysis : May 11, 2026
Sampled by : Wanayoo Chirphakae (1-323-4-0020)
Condition of Sample : 1x 500mL Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet/data, 1x 1L Plastic Bottle, refrigerated
Physical Properties : yellow, some odour, some solids, turbid

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	6.1	<200	E10044	Rayong
COD	mg/L	1.5	25	36	<400	E10046	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	E10048	Rayong
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	8.2	6-9	E10020	Rayong
Temperature *	°C	-	-	31.1	≤40	E10097	Rayong
Total Dissolved Solids at 180°C	mg/L	-	5	288	≤3000	E10100	Rayong
Total Suspended Solids	mg/L	-	5	12	≤200	E10102	Rayong

Guideline : Environmental Impact Assessment Report of WHA Rayong 36 Industrial Estate

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

Key :

- LOD : Limit of Detection
- * : Lower than LOQ (Limit of Quantification) / LOR (Limit of Reporting)
- Analyte(s) marked * are not included in scope of Accreditation ISO/IEC 17025

Signatories

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TESTING
No.0042

Analysis Report

Work Order : RA2804310
Client : WHA Utilities and Power Public Company Limited
27 Moo 2, Tambon Phana Nakhon, Amphoe Nakhon Phatham, Rayong,
Thailand, 21100
Project : WHA Rayong 36
Project Location : TOURFELLA MOTECH CO., LTD., J.13_WWT_WHARayong36_002_2568
Sample Number : RA2804310-001
Sampled Date : May 11, 2026 10:50 AM
Sample Name : Wastewater
Sampling Site : TOURFELLA MOTECH CO., LTD.
Contract ID : WWT_WHARayong36_002_2568
Plot : J.13
Date of Analysis : May 11, 2026
Sampled by : Wanayoo Chirphakae (1-323-4-0020)
Condition of Sample : 1x 500mL Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet/data, 1x 1L Plastic Bottle, refrigerated
Physical Properties : yellow, some odour, lots of solids, no turbid

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	<2.0	<200	E10044	Rayong
COD	mg/L	1.5	25	<25	<400	E10046	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	E10048	Rayong
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.7	6-9	E10020	Rayong
Temperature *	°C	-	-	30.7	≤40	E10097	Rayong
Total Dissolved Solids at 180°C	mg/L	-	5	332	≤3000	E10100	Rayong
Total Suspended Solids	mg/L	-	5	9	≤200	E10102	Rayong

Guideline : Environmental Impact Assessment Report of WHA Rayong 36 Industrial Estate

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

Key :

- LOD : Limit of Detection
- * : Lower than LOQ (Limit of Quantification) / LOR (Limit of Reporting)
- Analyte(s) marked * are not included in scope of Accreditation ISO/IEC 17025

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TESTING
No.0042

Analysis Report

Work Order : RA2804309
Client : WHA Utilities and Power Public Company Limited
27 Moo 2, Tambon Phana Nakhon, Amphoe Nakhon Phatham, Rayong,
Thailand, 21100
Project : WHA Rayong 36
Project Location : TAWAY Electric Company Limited, J.09_WWT_WHARayong36_004_2567
Sample Number : RA2804309-001
Sampled Date : May 11, 2026 11:15 AM
Sample Name : Wastewater
Sampling Site : TAWAY Electric Company Limited
Contract ID : WWT_WHARayong36_004_2567
Plot : J.09
Date of Analysis : May 11, 2026
Sampled by : Wanayoo Chirphakae (1-323-4-0020)
Condition of Sample : 1x 500mL Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet/data, 1x 1L Plastic Bottle, refrigerated
Physical Properties : yellow, some odour, some solids, turbid

Method	Testing Lab	Method Description
E10020	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
E10044	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (C)
E10046	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
E10048	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
E10097	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B
E10100	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C
E10102	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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TESTING
No.0042

Analysis Report

Work Order : RA2804310
Client : WHA Utilities and Power Public Company Limited
27 Moo 2, Tambon Phana Nakhon, Amphoe Nakhon Phatham, Rayong,
Thailand, 21100
Project : WHA Rayong 36
Project Location : TOURFELLA MOTECH CO., LTD., J.13_WWT_WHARayong36_002_2568
Sample Number : RA2804310-001
Sampled Date : May 11, 2026 10:50 AM
Sample Name : Wastewater
Sampling Site : TOURFELLA MOTECH CO., LTD.
Contract ID : WWT_WHARayong36_002_2568
Plot : J.13
Date of Analysis : May 11, 2026
Sampled by : Wanayoo Chirphakae (1-323-4-0020)
Condition of Sample : 1x 500mL Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet/data, 1x 1L Plastic Bottle, refrigerated
Physical Properties : yellow, some odour, lots of solids, no turbid

Method	Testing Lab	Method Description
E10020	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
E10044	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (C)
E10046	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
E10048	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
E10097	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B
E10100	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C
E10102	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

Work Order : RA2804307
Client : WHA Utilities and Power Public Company Limited
27 Moo 2, Tambon Phana Nakhon, Amphoe Nakhon Phathamni, Rayong,
Thailand, 21100
Project : WHA Rayong 36
Project Location : QUANTUM SPT COMPANY LIMITED_131_WWT_WHA Rayong36_005_2567

Sample Number : RA2804307-001
Sampled Date : May 11, 2026 11:30 AM
Sample Name : Wastewater
Sampling Site : QUANTUM SPT COMPANY LIMITED
Contract ID : WWT_WHA Rayong36_005_2567
Plot : J.31
Date of Analysis : May 11, 2026
Sampled by : Wanayoo Chiraphakkei (1-323-4-0020)
Condition of Sample : 1x 500mL Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet/ data, 1x 1L Plastic Bottle, refrigerated
Physical Properties : yellow, some odour, lots of solids, turbid

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	11.8	<200	E10044	Rayong
COD	mg/L	1.5	25	37	<400	E10046	Rayong
Oil & Grease	mg/L	-	3	<3	<10	E10048	Rayong
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.9	6-9	E10020	Rayong
Temperature *	°C	-	-	34.9	<40	E10097	Rayong
Total Dissolved Solids at 180°C	mg/L	-	5	252	<3000	E10100	Rayong
Total Suspended Solids	mg/L	-	5	<5	<200	E10102	Rayong

Guideline : Environmental Impact Assessment Report of WHA Rayong 36 Industrial Estate

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

Key :

- LOD : Limit of Detection
- * : Lower than LOQ (Limit of Quantification) / LOR (Limit of Reporting)
- Analyte(s) marked * are not included in scope of Accreditation ISO/IEC 17025

Signatories

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TESTING
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Analysis Report

Work Order : RA2804308
Client : WHA Utilities and Power Public Company Limited
27 Moo 2, Tambon Phana Nakhon, Amphoe Nakhon Phathamni, Rayong,
Thailand, 21100
Project : WHA Rayong 36
Project Location : T.C. PHARMACEUTICAL INDUSTRIES CO., LTD_116_WWT_WHA Rayong36_002_2567

Sample Number : RA2804308-001
Sampled Date : May 11, 2026 10:28 AM
Sample Name : Wastewater
Sampling Site : T.C. PHARMACEUTICAL INDUSTRIES CO., LTD.
Contract ID : WWT_WHA Rayong36_002_2567
Plot : J.16
Date of Analysis : May 11, 2026
Sampled by : Wanayoo Chiraphakkei (1-323-4-0020)
Condition of Sample : 1x 500mL Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet/ data, 1x 1L Plastic Bottle, refrigerated
Physical Properties : Colorless, some odour, some solid, no turbid

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	<2.0	<200	E10044	Rayong
COD	mg/L	1.5	25	<25	<400	E10046	Rayong
Oil & Grease	mg/L	-	3	<3	<10	E10048	Rayong
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.7	6-9	E10020	Rayong
Temperature *	°C	-	-	32.4	<40	E10097	Rayong
Total Dissolved Solids at 180°C	mg/L	-	5	238	<3000	E10100	Rayong
Total Suspended Solids	mg/L	-	5	<5	<200	E10102	Rayong

Guideline : Environmental Impact Assessment Report of WHA Rayong 36 Industrial Estate

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

Key :

- LOD : Limit of Detection
- * : Lower than LOQ (Limit of Quantification) / LOR (Limit of Reporting)
- Analyte(s) marked * are not included in scope of Accreditation ISO/IEC 17025

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TESTING
No.0042

Analysis Report

Work Order : RA2804307
Client : WHA Utilities and Power Public Company Limited
27 Moo 2, Tambon Phana Nakhon, Amphoe Nakhon Phathamni, Rayong,
Thailand, 21100
Project : WHA Rayong 36
Project Location : QUANTUM SPT COMPANY LIMITED_131_WWT_WHA Rayong36_005_2567

Sample Number : RA2804307-001
Sampled Date : May 11, 2026 11:30 AM
Sample Name : Wastewater
Sampling Site : QUANTUM SPT COMPANY LIMITED
Contract ID : WWT_WHA Rayong36_005_2567
Plot : J.31
Date of Analysis : May 11, 2026
Sampled by : Wanayoo Chiraphakkei (1-323-4-0020)
Condition of Sample : 1x 500mL Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet/ data, 1x 1L Plastic Bottle, refrigerated
Physical Properties : yellow, some odour, lots of solids, turbid

Method	Testing Lab	Method Descriptions
E10020	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
E10044	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (C)
E10046	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
E10048	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
E10097	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B
E10100	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C
E10102	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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TESTING
No.0042

Analysis Report

Work Order : RA2804308
Client : WHA Utilities and Power Public Company Limited
27 Moo 2, Tambon Phana Nakhon, Amphoe Nakhon Phathamni, Rayong,
Thailand, 21100
Project : WHA Rayong 36
Project Location : T.C. PHARMACEUTICAL INDUSTRIES CO., LTD_116_WWT_WHA Rayong36_002_2567

Sample Number : RA2804308-001
Sampled Date : May 11, 2026 10:28 AM
Sample Name : Wastewater
Sampling Site : T.C. PHARMACEUTICAL INDUSTRIES CO., LTD.
Contract ID : WWT_WHA Rayong36_002_2567
Plot : J.16
Date of Analysis : May 11, 2026
Sampled by : Wanayoo Chiraphakkei (1-323-4-0020)
Condition of Sample : 1x 500mL Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet/ data, 1x 1L Plastic Bottle, refrigerated
Physical Properties : Colorless, some odour, some solid, no turbid

Method	Testing Lab	Method Descriptions
E10020	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
E10044	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (C)
E10046	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
E10048	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
E10097	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B
E10100	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C
E10102	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 : RA2804305
Client : WHA Utilities and Power Public Company Limited
27 Moo 2, Tambon Phana Nakhon, Amphoe Nakhon Phatham, Rayong,
Thailand, 21100
Project : WHA Rayong 36
Project Location : Faurecia Automotive Parts (Thailand) Co., Ltd., J11-2, WWT_WHARayong36_014_2567

Sample Number : RA2804305-001
Sample Date : May 11, 2026 11:05 AM
Sample Name : Wastewater
Sampling Site : Faurecia Automotive Parts (Thailand) Co., Ltd.
Contract ID : WWT_WHARayong36_014_2567
Plot : J11-2
Date of Analysis : May 11, 2026
Sampled by : Wanayoo Chirphakae (1-323-4-0020)
Condition of Sample : 1x 500mL Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet/ data, 1x 1L Plastic Bottle, refrigerated
Physical Properties : yellow, strong odour, lots of solids, turbid

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	57.7	<200	E10044	Rayong
COD	mg/L	1.5	25	262	<400	E10046	Rayong
Oil & Grease	mg/L	-	3	13	<10	E10048	Rayong
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.4	6-9	E10020	Rayong
Temperature *	°C	-	-	31.5	<40	E10097	Rayong
Total Dissolved Solids at 180°C	mg/L	-	5	488	<3000	E10100	Rayong
Total Suspended Solids	mg/L	-	5	50	<200	E10102	Rayong

Guideline : Environmental Impact Assessment Report of WHA Rayong 36 Industrial Estate

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

Key :

- LOD : Limit of Detection
- * : Lower than LOQ (Limit of Quantification) / LOR (Limit of Reporting)
- Analyte(s) marked * are not included in scope of Accreditation ISO/IEC 17025

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Analysis Report

Work Order : RA2804306
Client : WHA Utilities and Power Public Company Limited
27 Moo 2, Tambon Phana Nakhon, Amphoe Nakhon Phatham, Rayong,
Thailand, 21100
Project : WHA Rayong 36
Project Location : QUING INDUSTRY (THAILAND) CO., LTD., J110_WWT_WHARayong36_001_2568

Sample Number : RA2804306-001
Sample Date : May 11, 2026 10:40 AM
Sample Name : Wastewater
Sampling Site : QUING INDUSTRY (THAILAND) CO., LTD.
Contract ID : WWT_WHARayong36_001_2568
Plot : J110
Date of Analysis : May 11, 2026
Sampled by : Wanayoo Chirphakae (1-323-4-0020)
Condition of Sample : 1x 500mL Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet/ data, 1x 1L Plastic Bottle, refrigerated
Physical Properties : yellow, some odour, some solids, turbid

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	15.3	<200	E10044	Rayong
COD	mg/L	1.5	25	51	<400	E10046	Rayong
Oil & Grease	mg/L	-	3	3	<10	E10048	Rayong
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.5	6-9	E10020	Rayong
Temperature *	°C	-	-	32.5	<40	E10097	Rayong
Total Dissolved Solids at 180°C	mg/L	-	5	200	<3000	E10100	Rayong
Total Suspended Solids	mg/L	-	5	9	<200	E10102	Rayong

Guideline : Environmental Impact Assessment Report of WHA Rayong 36 Industrial Estate

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

Key :

- LOD : Limit of Detection
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Analysis Report

Work Order : RA2804305
Client : WHA Utilities and Power Public Company Limited
27 Moo 2, Tambon Phana Nakhon, Amphoe Nakhon Phatham, Rayong,
Thailand, 21100
Project : WHA Rayong 36
Project Location : Faurecia Automotive Parts (Thailand) Co., Ltd., J11-2, WWT_WHARayong36_014_2567

Sample Number : RA2804305-001
Sample Date : May 11, 2026 11:05 AM
Sample Name : Wastewater
Sampling Site : Faurecia Automotive Parts (Thailand) Co., Ltd.
Contract ID : WWT_WHARayong36_014_2567
Plot : J11-2
Date of Analysis : May 11, 2026
Sampled by : Wanayoo Chirphakae (1-323-4-0020)
Condition of Sample : 1x 500mL Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet/ data, 1x 1L Plastic Bottle, refrigerated
Physical Properties : yellow, strong odour, lots of solids, turbid

Method	Testing Lab	Method Descriptions
E10020	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
E10044	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (C)
E10046	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
E10048	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
E10097	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B
E10100	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C
E10102	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 : RA2804306
Client : WHA Utilities and Power Public Company Limited
27 Moo 2, Tambon Phana Nakhon, Amphoe Nakhon Phatham, Rayong,
Thailand, 21100
Project : WHA Rayong 36
Project Location : QUING INDUSTRY (THAILAND) CO., LTD., J110_WWT_WHARayong36_001_2568

Sample Number : RA2804306-001
Sample Date : May 11, 2026 10:40 AM
Sample Name : Wastewater
Sampling Site : QUING INDUSTRY (THAILAND) CO., LTD.
Contract ID : WWT_WHARayong36_001_2568
Plot : J110
Date of Analysis : May 11, 2026
Sampled by : Wanayoo Chirphakae (1-323-4-0020)
Condition of Sample : 1x 500mL Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet/ data, 1x 1L Plastic Bottle, refrigerated
Physical Properties : yellow, some odour, some solids, turbid

Method	Testing Lab	Method Descriptions
E10020	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
E10044	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (C)
E10046	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
E10048	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
E10097	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B
E10100	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C
E10102	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 : RA2804303
Client : WHA Utilities and Power Public Company Limited
27 Moo 2, Tambon Phana Nakhon, Amphoe Nakhon Phatham, Rayong,
Thailand, 21100
Project : WHA Rayong 36
Project Location : BYD AUTO (THAILAND) CO.,LTD./J32_WWT_WHARayong36_011_2567

Sample Number : RA2804303-001
Sampled Date : May 11, 2026 02:05 PM
Sample Name : Wastewater - Point No.1
Sampling Site : BYD AUTO (THAILAND) CO.,LTD.
Contract ID : WWT_WHARayong36_011_2567
Plot : J32
Date of Analysis : May 11, 2026
Sampled by : Wanayoo Chirphakae (1-323-4-0020)
Condition of Sample : 1x 500mL Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet/data, 1x 1L Plastic Bottle, refrigerated
Physical Properties : yellow, strong odour, some solids, turbid

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	21.1	<200	E10044	Rayong
COD	mg/L	1.5	25	93	<400	E10046	Rayong
Oil & Grease	mg/L	-	3	3	≤10	E10048	Rayong
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.3	6-9	E10020	Rayong
Temperature *	°C	-	-	31.0	≤40	E10097	Rayong
Total Dissolved Solids at 180°C	mg/L	-	5	332	≤3000	E10100	Rayong
Total Suspended Solids	mg/L	-	5	96	≤200	E10102	Rayong

Guideline : Environmental Impact Assessment Report of WHA Rayong 36 Industrial Estate

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

Key :

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

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Analysis Report

Work Order : RA2804304
Client : WHA Utilities and Power Public Company Limited
27 Moo 2, Tambon Phana Nakhon, Amphoe Nakhon Phatham, Rayong,
Thailand, 21100
Project : WHA Rayong 36
Project Location : CHOH INDUSTRIAL (THAILAND) COMPANY LIMITED/J21_WWT_WHARayong36_012_2567

Sample Number : RA2804304-001
Sampled Date : May 11, 2026 09:30 AM
Sample Name : Wastewater
Sampling Site : CHOH INDUSTRIAL (THAILAND) COMPANY LIMITED
Contract ID : WWT_WHARayong36_012_2567
Plot : J21
Date of Analysis : May 11, 2026
Sampled by : Wanayoo Chirphakae (1-323-4-0020)
Condition of Sample : 1x 500mL Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet/data, 1x 1L Plastic Bottle, refrigerated
Physical Properties : yellow, some odour, some solids, turbid

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	10.4	<200	E10044	Rayong
COD	mg/L	1.5	25	45	<400	E10046	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	E10048	Rayong
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.4	6-9	E10020	Rayong
Temperature *	°C	-	-	31.8	≤40	E10097	Rayong
Total Dissolved Solids at 180°C	mg/L	-	5	218	≤3000	E10100	Rayong
Total Suspended Solids	mg/L	-	5	19	≤200	E10102	Rayong

Guideline : Environmental Impact Assessment Report of WHA Rayong 36 Industrial Estate

Comment : Sampling is 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

Work Order : RA2804303
Client : WHA Utilities and Power Public Company Limited
27 Moo 2, Tambon Phana Nakhon, Amphoe Nakhon Phatham, Rayong,
Thailand, 21100
Project : WHA Rayong 36
Project Location : BYD AUTO (THAILAND) CO.,LTD./J32_WWT_WHARayong36_011_2567

Sample Number : RA2804303-001
Sampled Date : May 11, 2026 02:05 PM
Sample Name : Wastewater - Point No.1
Sampling Site : BYD AUTO (THAILAND) CO.,LTD.
Contract ID : WWT_WHARayong36_011_2567
Plot : J32
Date of Analysis : May 11, 2026
Sampled by : Wanayoo Chirphakae (1-323-4-0020)
Condition of Sample : 1x 500mL Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet/data, 1x 1L Plastic Bottle, refrigerated
Physical Properties : yellow, strong odour, some solids, turbid

Method	Testing Lab	Method Descriptions
E10020	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
E10044	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (C)
E10046	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
E10048	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
E10097	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B
E10100	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C
E10102	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 : RA2804304
Client : WHA Utilities and Power Public Company Limited
27 Moo 2, Tambon Phana Nakhon, Amphoe Nakhon Phatham, Rayong,
Thailand, 21100
Project : WHA Rayong 36
Project Location : CHOH INDUSTRIAL (THAILAND) COMPANY LIMITED/J21_WWT_WHARayong36_012_2567

Sample Number : RA2804304-001
Sampled Date : May 11, 2026 09:30 AM
Sample Name : Wastewater
Sampling Site : CHOH INDUSTRIAL (THAILAND) COMPANY LIMITED
Contract ID : WWT_WHARayong36_012_2567
Plot : J21
Date of Analysis : May 11, 2026
Sampled by : Wanayoo Chirphakae (1-323-4-0020)
Condition of Sample : 1x 500mL Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet/data, 1x 1L Plastic Bottle, refrigerated
Physical Properties : yellow, some odour, some solids, turbid

Method	Testing Lab	Method Descriptions
E10020	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
E10044	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (C)
E10046	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
E10048	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
E10097	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B
E10100	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C
E10102	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 : RA2804301
Client : WHA Utilities and Power Public Company Limited
27 Moo 2, Tambon Phana Nakhon, Amphoe Nakhon Phathamni, Rayong,
Thailand, 21100
Project : WHA Rayong 36
Project Location : BYD AUTO (THAILAND) CO.,LTD.,J2B8_WWT_WHARayong36_010_2567

Sample Number : RA2804301-001
Sampled Date : May 11, 2026 02:10 PM
Sample Name : Wastewater : Point No.3
Sampling Site : BYD AUTO (THAILAND) CO.,LTD.
Contract ID : WWT_WHARayong36_010_2567
Plot : J2B8
Date of Analysis : May 11, 2026
Sampled by : Wanayoo Chiraphak (1-323-4-0020)
Condition of Sample : 1x 500mL Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet/data, 1x 1L Plastic Bottle, refrigerated
Physical Properties : yellow, some odour, some solids, turbid

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	34.2	<200	E10044	Rayong
COD	mg/L	1.5	25	73	<400	E10046	Rayong
Oil & Grease	mg/L	-	3	5	≤10	E10048	Rayong
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.2	6-9	E10020	Rayong
Temperature *	°C	-	-	31.6	≤40	E10097	Rayong
Total Dissolved Solids at 180°C	mg/L	-	5	292	≤3000	E10100	Rayong
Total Suspended Solids	mg/L	-	5	32	≤200	E10102	Rayong

Guideline : Environmental Impact Assessment Report of WHA Rayong 36 Industrial Estate

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

Key :

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

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Analysis Report

Work Order : RA2804302
Client : WHA Utilities and Power Public Company Limited
27 Moo 2, Tambon Phana Nakhon, Amphoe Nakhon Phathamni, Rayong,
Thailand, 21100
Project : WHA Rayong 36
Project Location : BYD AUTO (THAILAND) CO.,LTD.,J29_WWT_WHARayong36_006_2567

Sample Number : RA2804302-001
Sampled Date : May 11, 2026 01:50 PM
Sample Name : Wastewater : Point No.2
Sampling Site : BYD AUTO (THAILAND) CO.,LTD.
Contract ID : WWT_WHARayong36_006_2567
Plot : J29
Date of Analysis : May 11, 2026
Sampled by : Wanayoo Chiraphak (1-323-4-0020)
Condition of Sample : 1x 500mL Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet/data, 1x 1L Plastic Bottle, refrigerated
Physical Properties : yellow, some odour, some solids, turbid

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	45.3	<200	E10044	Rayong
COD	mg/L	1.5	25	114	<400	E10046	Rayong
Oil & Grease	mg/L	-	3	5	≤10	E10048	Rayong
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.2	6-9	E10020	Rayong
Temperature *	°C	-	-	31.3	≤40	E10097	Rayong
Total Dissolved Solids at 180°C	mg/L	-	5	340	≤3000	E10100	Rayong
Total Suspended Solids	mg/L	-	5	18	≤200	E10102	Rayong

Guideline : Environmental Impact Assessment Report of WHA Rayong 36 Industrial Estate

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

Key :

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

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Analysis Report

Work Order : RA2804301
Client : WHA Utilities and Power Public Company Limited
27 Moo 2, Tambon Phana Nakhon, Amphoe Nakhon Phathamni, Rayong,
Thailand, 21100
Project : WHA Rayong 36
Project Location : BYD AUTO (THAILAND) CO.,LTD.,J2B8_WWT_WHARayong36_010_2567

Sample Number : RA2804301-001
Sampled Date : May 11, 2026 02:10 PM
Sample Name : Wastewater : Point No.3
Sampling Site : BYD AUTO (THAILAND) CO.,LTD.
Contract ID : WWT_WHARayong36_010_2567
Plot : J2B8
Date of Analysis : May 11, 2026
Sampled by : Wanayoo Chiraphak (1-323-4-0020)
Condition of Sample : 1x 500mL Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet/data, 1x 1L Plastic Bottle, refrigerated
Physical Properties : yellow, some odour, some solids, turbid

Method	Testing Lab	Method Descriptions
E10020	Rayong	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
E10044	Rayong	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (C)
E10046	Rayong	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
E10048	Rayong	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
E10097	Rayong	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 2550 B
E10100	Rayong	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 2540 C
E10102	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 : RA2804302
Client : WHA Utilities and Power Public Company Limited
27 Moo 2, Tambon Phana Nakhon, Amphoe Nakhon Phathamni, Rayong,
Thailand, 21100
Project : WHA Rayong 36
Project Location : BYD AUTO (THAILAND) CO.,LTD.,J29_WWT_WHARayong36_006_2567

Sample Number : RA2804302-001
Sampled Date : May 11, 2026 01:50 PM
Sample Name : Wastewater : Point No.2
Sampling Site : BYD AUTO (THAILAND) CO.,LTD.
Contract ID : WWT_WHARayong36_006_2567
Plot : J29
Date of Analysis : May 11, 2026
Sampled by : Wanayoo Chiraphak (1-323-4-0020)
Condition of Sample : 1x 500mL Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet/data, 1x 1L Plastic Bottle, refrigerated
Physical Properties : yellow, some odour, some solids, turbid

Method	Testing Lab	Method Descriptions
E10020	Rayong	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
E10044	Rayong	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (C)
E10046	Rayong	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
E10048	Rayong	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
E10097	Rayong	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 2550 B
E10100	Rayong	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 2540 C
E10102	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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TESTING
No.0042

Analysis Report

Work Order : RA2804299
Client : WHA Utilities and Power Public Company Limited
27 Moo 2, Tambon Phana Nakhon, Amphoe Nakhon Phatham, Rayong,
Thailand, 21180
Project : WHA Rayong 36
Project Location : BYD AUTO (THAILAND) CO.,LTD.,J19D,_WWT_WHARayong36_007_2567

Sample Number : RA2804299-001
Sampled Date : May 11, 2026 02:33 PM
Sample Name : Wastewater - Point No.5
Sampling Site : BYD AUTO (THAILAND) CO.,LTD.
Contract ID : WWT_WHARayong36_007_2567
Plot : J19D
Date of Analysis : May 11, 2026
Sampled by : Wanayoo Chiraphakkei (1-323-4-0020)
Condition of Sample : 1x 500mL Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet/data, 1x 1L Plastic Bottle, refrigerated
Physical Properties : yellow, some odour, some solids, turbid

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	9.8	<200	E10044	Rayong
COD	mg/L	1.5	25	27	<400	E10046	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	E10048	Rayong
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.8	6-9	E10020	Rayong
Temperature *	°C	-	-	32.5	≤40	E10097	Rayong
Total Dissolved Solids at 180°C	mg/L	-	5	238	≤3000	E10100	Rayong
Total Suspended Solids	mg/L	-	5	13	≤200	E10102	Rayong

Guideline : Environmental Impact Assessment Report of WHA Rayong 36 Industrial Estate

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

Key :

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

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TESTING
No.0042

Analysis Report

Work Order : RA2804300
Client : WHA Utilities and Power Public Company Limited
27 Moo 2, Tambon Phana Nakhon, Amphoe Nakhon Phatham, Rayong,
Thailand, 21180
Project : WHA Rayong 36
Project Location : BYD AUTO (THAILAND) CO.,LTD.,J19D,_WWT_WHARayong36_008_2567

Sample Number : RA2804300-001
Sampled Date : May 11, 2026 02:40 PM
Sample Name : Wastewater - Point No.6
Sampling Site : BYD AUTO (THAILAND) CO.,LTD.
Contract ID : WWT_WHARayong36_008_2567
Plot : J19D
Date of Analysis : May 11, 2026
Sampled by : Wanayoo Chiraphakkei (1-323-4-0020)
Condition of Sample : 1x 500mL Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet/data, 1x 1L Plastic Bottle, refrigerated
Physical Properties : yellow, some odour, some solids, turbid

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	11.7	<200	E10044	Rayong
COD	mg/L	1.5	25	44	<400	E10046	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	E10048	Rayong
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.4	6-9	E10020	Rayong
Temperature *	°C	-	-	32.2	≤40	E10097	Rayong
Total Dissolved Solids at 180°C	mg/L	-	5	548	≤3000	E10100	Rayong
Total Suspended Solids	mg/L	-	5	12	≤200	E10102	Rayong

Guideline : Environmental Impact Assessment Report of WHA Rayong 36 Industrial Estate

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

Key :

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TESTING
No.0042

Analysis Report

Work Order : RA2804299
Client : WHA Utilities and Power Public Company Limited
27 Moo 2, Tambon Phana Nakhon, Amphoe Nakhon Phatham, Rayong,
Thailand, 21180
Project : WHA Rayong 36
Project Location : BYD AUTO (THAILAND) CO.,LTD.,J19D,_WWT_WHARayong36_007_2567

Sample Number : RA2804299-001
Sampled Date : May 11, 2026 02:33 PM
Sample Name : Wastewater - Point No.5
Sampling Site : BYD AUTO (THAILAND) CO.,LTD.
Contract ID : WWT_WHARayong36_007_2567
Plot : J19D
Date of Analysis : May 11, 2026
Sampled by : Wanayoo Chiraphakkei (1-323-4-0020)
Condition of Sample : 1x 500mL Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet/data, 1x 1L Plastic Bottle, refrigerated
Physical Properties : yellow, some odour, some solids, turbid

Method	Testing Lab	Method Descriptions
E10020	Rayong	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
E10044	Rayong	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (C)
E10046	Rayong	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
E10048	Rayong	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
E10097	Rayong	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 2550 B
E10100	Rayong	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 2540 C
E10102	Rayong	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

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TESTING
No.0042

Analysis Report

Work Order : RA2804300
Client : WHA Utilities and Power Public Company Limited
27 Moo 2, Tambon Phana Nakhon, Amphoe Nakhon Phatham, Rayong,
Thailand, 21180
Project : WHA Rayong 36
Project Location : BYD AUTO (THAILAND) CO.,LTD.,J19D,_WWT_WHARayong36_008_2567

Sample Number : RA2804300-001
Sampled Date : May 11, 2026 02:40 PM
Sample Name : Wastewater - Point No.6
Sampling Site : BYD AUTO (THAILAND) CO.,LTD.
Contract ID : WWT_WHARayong36_008_2567
Plot : J19D
Date of Analysis : May 11, 2026
Sampled by : Wanayoo Chiraphakkei (1-323-4-0020)
Condition of Sample : 1x 500mL Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet/data, 1x 1L Plastic Bottle, refrigerated
Physical Properties : yellow, some odour, some solids, turbid

Method	Testing Lab	Method Descriptions
E10020	Rayong	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
E10044	Rayong	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (C)
E10046	Rayong	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
E10048	Rayong	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
E10097	Rayong	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 2550 B
E10100	Rayong	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 2540 C
E10102	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	RA2803400	Date Received	Apr 10, 2026
Client	WHA Utilities and Power Public Company Limited	Date Reported	Apr 18, 2026
	27 Moo 2, Tambon Phana Nakhon, Amphoe Nakhon Phatham, Rayong, Thailand, 21100	Report Number	RA2803400-AC
Project	WHA Rayong 36		
Project Location	THAIYA CORPORATION LIMITED, J07_WWT_WHARayong36_002_2569		
Sample Number	RA2803400-001		
Sampled Date	Apr 10, 2026 10:56 AM		
Sample Name	Wastewater		
Sampling Site	THAIYA CORPORATION LIMITED		
Contract ID	WWT_WHARayong36_002_2569		
Plot	J07		
Date of Analysis	Apr 10, 2026		
Sampled by	Samart Khumplinee		
	Surawit Narapong		
Condition of Sample	2x 1L Plastic Bottle, 1x Cyanide, 1x Plastic Bottle - Preserved with H2SO4, 1x Plastic Bottle - Preserved with Zinc Acetate and NaOH, 1x Oil & Grease, 1x Logsheet/ data, 1x Plastic Bottle - Preserved with HClO3, 1x Plastic Bottle - Preserved with NaOH, 1x 500mL Plastic Bottle, 1x 500mL Plastic bottle - Preserved with H2SO4, 1x Amber Glass Bottle- Unpreserved, refrigerated yellow, strong odour, lots of solids, turbid		

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
Asiatic Surfactants as MBAS	mg/L	-	0.05	2.55	<30	EN10043	Bangkok
Fluoride	mg/L	-	0.2	0.2	45	EN10253	Rayong
Metals and Major Cations - Total							
Iron	mg/L	0.005	0.01	0.31	≤10	ME0002	Rayong
Silver	mg/L	0.005	0.01	Not Detected	≤1	ME0002	Rayong

Guideline: Environmental Impact Assessment Report of WHA Rayong 36 Industrial Estate

- Key:
- LOD - Limit of Detection
 - LOQ - 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
EN10043	Bangkok	Based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5540 B, C
EN10253	Rayong	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500-F (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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Nantawadee Somborn
Specialist 2

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Analysis Report

Work Order	RA2804298	Date Received	May 11, 2026
Client	WHA Utilities and Power Public Company Limited	Date Reported	May 18, 2026
	27 Moo 2, Tambon Phana Nakhon, Amphoe Nakhon Phatham, Rayong, Thailand, 21100	Report Number	RA2804298-AA
Project	WHA Rayong 36		
Project Location	BYD AUTO (THAILAND) CO., LTD., J19C_WWT_WHARayong36_009_2567		
Sample Number	RA2804298-001		
Sampled Date	May 11, 2026 02:20 PM		
Sample Name	Wastewater - Point No.4		
Sampling Site	BYD AUTO (THAILAND) CO., LTD.		
Contract ID	WWT_WHARayong36_009_2567		
Plot	J19C		
Date of Analysis	May 11, 2026		
Sampled by	Wanayoo Chintphakae (1-323-4-0020)		
Condition of Sample	1x 500mL Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet/ data, 1x 1L Plastic Bottle, refrigerated yellow, strong odour, some solids, turbid		

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	25.6	≤200	EN10044	Rayong
COD	mg/L	1.5	25	76	≤400	EN10046	Rayong
Oil & Grease	mg/L	-	3	4	≤10	EN10048	Rayong
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.5	6-9	EN10020	Rayong
Temperature *	°C	-	-	31.2	≤40	EN10097	Rayong
Total Dissolved Solids at 180°C	mg/L	-	5	244	≤3000	EN10100	Rayong
Total Suspended Solids	mg/L	-	5	39	≤200	EN10102	Rayong

Guideline: Environmental Impact Assessment Report of WHA Rayong 36 Industrial Estate

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

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

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Analysis Report

Work Order	RA2803400	Date Received	Apr 10, 2026
Client	WHA Utilities and Power Public Company Limited	Date Reported	Apr 18, 2026
	27 Moo 2, Tambon Phana Nakhon, Amphoe Nakhon Phatham, Rayong, Thailand, 21100	Report Number	RA2803400-AC
Project	WHA Rayong 36		
Project Location	THAIYA CORPORATION LIMITED, J07_WWT_WHARayong36_002_2569		
Sample Number	RA2803400-001		
Sampled Date	Apr 10, 2026 10:56 AM		
Sample Name	Wastewater		
Sampling Site	THAIYA CORPORATION LIMITED		
Contract ID	WWT_WHARayong36_002_2569		
Plot	J07		
Date of Analysis	Apr 10, 2026		
Sampled by	Samart Khumplinee		
	Surawit Narapong		
Condition of Sample	2x 1L Plastic Bottle, 1x Cyanide, 1x Plastic Bottle - Preserved with H2SO4, 1x Plastic Bottle - Preserved with Zinc Acetate and NaOH, 1x Oil & Grease, 1x Logsheet/ data, 1x Plastic Bottle - Preserved with HClO3, 1x Plastic Bottle - Preserved with NaOH, 1x 500mL Plastic Bottle, 1x 500mL Plastic bottle - Preserved with H2SO4, 1x Amber Glass Bottle- Unpreserved, refrigerated yellow, strong odour, lots of solids, turbid		

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
Asiatic Surfactants as MBAS	mg/L	-	0.05	2.55	<30	EN10043	Bangkok
Fluoride	mg/L	-	0.2	0.2	45	EN10253	Rayong
Metals and Major Cations - Total							
Iron	mg/L	0.005	0.01	0.31	≤10	ME0002	Rayong
Silver	mg/L	0.005	0.01	Not Detected	≤1	ME0002	Rayong

Guideline: Environmental Impact Assessment Report of WHA Rayong 36 Industrial Estate

- Key:
- LOD - Limit of Detection
 - LOQ - 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
EN10043	Bangkok	Based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5540 B, C
EN10253	Rayong	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500-F (D)
ME0002	Rayong	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3120 B, 3030 F

Signatories

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Analysis Report

Work Order	RA2804298	Date Received	May 11, 2026
Client	WHA Utilities and Power Public Company Limited	Date Reported	May 18, 2026
	27 Moo 2, Tambon Phana Nakhon, Amphoe Nakhon Phatham, Rayong, Thailand, 21100	Report Number	RA2804298-AA
Project	WHA Rayong 36		
Project Location	BYD AUTO (THAILAND) CO., LTD., J19C_WWT_WHARayong36_009_2567		
Sample Number	RA2804298-001		
Sampled Date	May 11, 2026 02:20 PM		
Sample Name	Wastewater - Point No.4		
Sampling Site	BYD AUTO (THAILAND) CO., LTD.		
Contract ID	WWT_WHARayong36_009_2567		
Plot	J19C		
Date of Analysis	May 11, 2026		
Sampled by	Wanayoo Chintphakae (1-323-4-0020)		
Condition of Sample	1x 500mL Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet/ data, 1x 1L Plastic Bottle, refrigerated yellow, strong odour, some solids, turbid		

Method	Testing Lab	Method Descriptions
EN10020	Rayong	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN10044	Rayong	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (C)
EN10046	Rayong	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN10048	Rayong	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN10097	Rayong	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2550 B
EN10100	Rayong	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 C
EN10102	Rayong	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	25.6	≤200	EN10044	Rayong
COD	mg/L	1.5	25	76	≤400	EN10046	Rayong
Oil & Grease	mg/L	-	3	4	≤10	EN10048	Rayong
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.5	6-9	EN10020	Rayong
Temperature *	°C	-	-	31.2	≤40	EN10097	Rayong
Total Dissolved Solids at 180°C	mg/L	-	5	244	≤3000	EN10100	Rayong
Total Suspended Solids	mg/L	-	5	39	≤200	EN10102	Rayong

Guideline: Environmental Impact Assessment Report of WHA Rayong 36 Industrial Estate

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

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

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Analysis Report

Work Order	RA2803400	Date Received	Apr 10, 2026
Client	WHA Utilities and Power Public Company Limited	Date Reported	Apr 18, 2026
	27 Moo 2, Tambon Phana Nakhon, Amphoe Nakhon Phatham, Rayong, Thailand, 21100	Report Number	RA2803400-AA
Project	WHA Rayong 36		
Project Location	THAIYA CORPORATION LIMITED, J07_WWT_WHARayong36_002_2569		
Sample Number	RA2803400-001		
Sampled Date	Apr 10, 2026 10:56 AM		
Sample Name	Wastewater		
Sampling Site	THAIYA CORPORATION LIMITED		
Contract ID	WWT_WHARayong36_002_2569		
Pilot	J.07		
Date of Analysis	Apr 10, 2026		
Sampled by	Samart Khumplinee (+204-4-0094) Surawit Narapong (+323-4-0011)		

Condition of Sample 2x 1L Plastic Bottle, 1x Cyanide, 1x Plastic Bottle - Preserved with H2SO4, 1x Plastic Bottle - Preserved with Zinc Acetate and NaOH, 1x Oil & Grease, 1x Logsheet/ data, 1x Plastic Bottle - Preserved with HClO3, 1x Plastic Bottle - Preserved with NaOH, 1x 500mL Plastic Bottle, 1x 500mL Plastic Bottle - Preserved with H2SO4, 1x Amber Glass Bottle- Unpreserved, refrigerated yellow, strong odour, lots of solids, turbid

Physical Properties

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
E10005	Rayong	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2024, part 4500 - CN (C, E)
E10010	Rayong	Wastewater analysis manual, Environmental Engineering Association of Thailand, 4th ed., 2004
E10020	Rayong	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
E10027	Rayong	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - Cl (F)
E10032	Rayong	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - S2 (C, F)
E10044	Rayong	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - D (C)
E10048	Rayong	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
E10049	Rayong	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
E10051	Rayong	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5630 B, D
E10080	Rayong	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2120 F
E10097	Rayong	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2550 B
E10100	Rayong	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 C
E10102	Rayong	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 D
E10228	Rayong	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500-Norg (C), part 1810 (D)

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Analysis Report

Work Order	RA2803400	Date Received	Apr 10, 2026
Client	WHA Utilities and Power Public Company Limited	Date Reported	Apr 18, 2026
	27 Moo 2, Tambon Phana Nakhon, Amphoe Nakhon Phatham, Rayong, Thailand, 21100	Report Number	RA2803400-AB
Project	WHA Rayong 36		
Project Location	THAIYA CORPORATION LIMITED, J07_WWT_WHARayong36_002_2569		
Sample Number	RA2803400-001		
Sampled Date	Apr 10, 2026 10:56 AM		
Sample Name	Wastewater		
Sampling Site	THAIYA CORPORATION LIMITED		
Contract ID	WWT_WHARayong36_002_2569		
Pilot	J.07		
Date of Analysis	Apr 17, 2026		
Sampled by	Samart Khumplinee Surawit Narapong		

Condition of Sample 2x 1L Plastic Bottle, 1x Cyanide, 1x Plastic Bottle - Preserved with H2SO4, 1x Plastic Bottle - Preserved with Zinc Acetate and NaOH, 1x Oil & Grease, 1x Logsheet/ data, 1x Plastic Bottle - Preserved with HClO3, 1x Plastic Bottle - Preserved with NaOH, 1x 500mL Plastic Bottle, 1x 500mL Plastic Bottle - Preserved with H2SO4, 1x Amber Glass Bottle- Unpreserved, refrigerated yellow, strong odour, lots of solids, turbid

Physical Properties

Analytical Results

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Pesticides - Organochlorine							
2,4-DDO	µg/L	0.01	0.02	Not Detected	Not Detected	E10069	Bangkok
2,4-DDE	µg/L	0.01	0.02	Not Detected	Not Detected	E10069	Bangkok
2,4-DDT	µg/L	0.01	0.02	Not Detected	Not Detected	E10069	Bangkok
4,4-DDO	µg/L	0.01	0.02	Not Detected	Not Detected	E10069	Bangkok
4,4-DDE	µg/L	0.01	0.02	Not Detected	Not Detected	E10069	Bangkok
4,4-DDT	µg/L	0.01	0.02	Not Detected	Not Detected	E10069	Bangkok
Aldrin	µg/L	0.01	0.02	Not Detected	Not Detected	E10069	Bangkok
alpha-BHC	µg/L	0.01	0.02	Not Detected	Not Detected	E10069	Bangkok
beta-BHC	µg/L	0.01	0.02	Not Detected	Not Detected	E10069	Bangkok
Chlordane	µg/L	0.01	0.04	Not Detected	Not Detected	E10069	Bangkok
delta-BHC	µg/L	0.01	0.02	Not Detected	Not Detected	E10069	Bangkok
Dieldrin	µg/L	0.01	0.02	Not Detected	Not Detected	E10069	Bangkok
Endosulfan I (alpha isomer)	µg/L	0.01	0.02	Not Detected	Not Detected	E10069	Bangkok
Endosulfan II (beta isomer)	µg/L	0.01	0.02	Not Detected	Not Detected	E10069	Bangkok
Endrin aldehyde	µg/L	0.01	0.02	Not Detected	Not Detected	E10069	Bangkok

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Analysis Report

Work Order	RA2803400	Date Received	Apr 10, 2026
Client	WHA Utilities and Power Public Company Limited	Date Reported	Apr 18, 2026
	27 Moo 2, Tambon Phana Nakhon, Amphoe Nakhon Phatham, Rayong, Thailand, 21100	Report Number	RA2803400-AA
Project	WHA Rayong 36		
Project Location	THAIYA CORPORATION LIMITED, J07_WWT_WHARayong36_002_2569		
Sample Number	RA2803400-001		
Sampled Date	Apr 10, 2026 10:56 AM		
Sample Name	Wastewater		
Sampling Site	THAIYA CORPORATION LIMITED		
Contract ID	WWT_WHARayong36_002_2569		
Pilot	J.07		
Date of Analysis	Apr 10, 2026		
Sampled by	Samart Khumplinee (+204-4-0094) Surawit Narapong (+323-4-0011)		

Condition of Sample 2x 1L Plastic Bottle, 1x Cyanide, 1x Plastic Bottle - Preserved with H2SO4, 1x Plastic Bottle - Preserved with Zinc Acetate and NaOH, 1x Oil & Grease, 1x Logsheet/ data, 1x Plastic Bottle - Preserved with HClO3, 1x Plastic Bottle - Preserved with NaOH, 1x 500mL Plastic Bottle, 1x 500mL Plastic Bottle - Preserved with H2SO4, 1x Amber Glass Bottle- Unpreserved, refrigerated yellow, strong odour, lots of solids, turbid

Physical Properties

Brief Method Summaries

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
ME0003	Rayong	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, Calculated APHA 3120 Calculation
ME0005	Rayong	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3112 (B)
ME0006	Rayong	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3500-Cr (B)

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Analysis Report

Work Order	RA2803400	Date Received	Apr 10, 2026
Client	WHA Utilities and Power Public Company Limited	Date Reported	Apr 18, 2026
	27 Moo 2, Tambon Phana Nakhon, Amphoe Nakhon Phatham, Rayong, Thailand, 21100	Report Number	RA2803400-AB
Project	WHA Rayong 36		
Project Location	THAIYA CORPORATION LIMITED, J07_WWT_WHARayong36_002_2569		
Sample Number	RA2803400-001		
Sampled Date	Apr 10, 2026 10:56 AM		
Sample Name	Wastewater		
Sampling Site	THAIYA CORPORATION LIMITED		
Contract ID	WWT_WHARayong36_002_2569		
Pilot	J.07		
Date of Analysis	Apr 17, 2026		
Sampled by	Samart Khumplinee Surawit Narapong		

Condition of Sample 2x 1L Plastic Bottle, 1x Cyanide, 1x Plastic Bottle - Preserved with H2SO4, 1x Plastic Bottle - Preserved with Zinc Acetate and NaOH, 1x Oil & Grease, 1x Logsheet/ data, 1x Plastic Bottle - Preserved with HClO3, 1x Plastic Bottle - Preserved with NaOH, 1x 500mL Plastic Bottle, 1x 500mL Plastic Bottle - Preserved with H2SO4, 1x Amber Glass Bottle- Unpreserved, refrigerated yellow, strong odour, lots of solids, turbid

Physical Properties

Analytical Results

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Pesticides - Organochlorine							
Endrin	µg/L	0.01	0.02	Not Detected	Not Detected	E10069	Bangkok
gamma-BHC (Lindane)	µg/L	0.01	0.02	Not Detected	Not Detected	E10069	Bangkok
Heptachlor epoxide	µg/L	0.01	0.02	Not Detected	Not Detected	E10069	Bangkok
Methoxychlor	µg/L	0.01	0.02	Not Detected	Not Detected	E10069	Bangkok
Heptachlor	µg/L	0.01	0.02	Not Detected	Not Detected	E10069	Bangkok

Guideline: Environmental Impact Assessment Report of WHA Rayong 36 Industrial Estate

Key:
o LOD : Limit of Detection
o "n" : 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
E10069	Bangkok	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 6630 D, part 6410 B

END OF REPORT

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Analysis Report

Work Order	RA2803399	Date Received	Apr 10, 2026
Client	WHA Utilities and Power Public Company Limited	Date Reported	Apr 18, 2026
	27 Moo 2, Tambon Phana Nakhon, Amphoe Nakhon Phattana, Rayong, Thailand, 21100	Report Number	RA2803399-AC
Project	WHA Rayong 36		
Project Location	THAIYA CORPORATION LIMITED, J06_WWT_WHARayong36_001_2569		
Sample Number	RA2803399-001		
Sampled Date	Apr 10, 2026 10:48 AM		
Sample Name	Wastewater		
Sampling Site	THAIYA CORPORATION LIMITED		
Contract ID	WWT_WHARayong36_001_2569		
Pilot	J.06		
Date of Analysis	Apr 10, 2026		
Sampled by	Samart Khumthuee Surawit Narapong		
Condition of Sample	2x 1L Plastic Bottle, 1x Cyanide, 1x Plastic Bottle - Preserved with H2SO4, 1x Plastic Bottle - Preserved with Zinc Acetate and NaOH, 1x Oil & Grease, 1x Logsheet/ data, 1x Plastic Bottle - Preserved with HClO3, 1x Plastic Bottle - Preserved with NaOH, 1x 500mL Plastic Bottle, 1x 500mL Plastic bottle - Preserved with H2SO4, 1x Amber Glass Bottle - Unpreserved, refrigerated		
Physical Properties	yellow, strong odour, some solids, turbid		

— END OF REPORT —

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Analysis Report

Work Order	RA2803400	Date Received	Apr 10, 2026
Client	WHA Utilities and Power Public Company Limited	Date Reported	Apr 18, 2026
	27 Moo 2, Tambon Phana Nakhon, Amphoe Nakhon Phattana, Rayong, Thailand, 21100	Report Number	RA2803400-AA
Project	WHA Rayong 36		
Project Location	THAIYA CORPORATION LIMITED, J07_WWT_WHARayong36_002_2569		
Sample Number	RA2803400-001		
Sampled Date	Apr 10, 2026 10:56 AM		
Sample Name	Wastewater		
Sampling Site	THAIYA CORPORATION LIMITED		
Contract ID	WWT_WHARayong36_002_2569		
Pilot	J.07		
Date of Analysis	Apr 10, 2026		
Sampled by	Samart Khumthuee (+204-4-0084) Surawit Narapong (+323-4-0011)		
Condition of Sample	2x 1L Plastic Bottle, 1x Cyanide, 1x Plastic Bottle - Preserved with H2SO4, 1x Plastic Bottle - Preserved with Zinc Acetate and NaOH, 1x Oil & Grease, 1x Logsheet/ data, 1x Plastic Bottle - Preserved with HClO3, 1x Plastic Bottle - Preserved with NaOH, 1x 500mL Plastic Bottle, 1x 500mL Plastic bottle - Preserved with H2SO4, 1x Amber Glass Bottle - Unpreserved, refrigerated		
Physical Properties	yellow, strong odour, lots of solids, turbid		

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Metals and Major Cations - Total							
Copper *	mg/L	0.005	0.01	<0.01	x2	ME0002	Rayong
Lead *	mg/L	0.002	0.005	Not Detected	<0.2	ME0002	Rayong
Manganese *	mg/L	0.001	0.002	0.058	s5	ME0002	Rayong
Mercury *	mg/L	0.0001	0.0005	Not Detected	<0.005	ME0005	Rayong
Nickel *	mg/L	0.002	0.005	<0.005	s1	ME0002	Rayong
Selenium *	mg/L	0.005	0.01	Not Detected	<0.02	ME0002	Rayong
Trivalent Chromium *	mg/L	-	0.01	<0.01	<0.75	ME0003	Rayong
Zinc *	mg/L	0.005	0.01	0.22	s5	ME0002	Rayong
Physical and Aggregate Properties							
Color (at Original pH)	ADMI	-	5	75	<600	EN0080	Rayong
Color (at pH 7.0)	ADMI	-	5	74	<600	EN0080	Rayong
pH - Field *	pH Unit	-	1.0	8.0	6-9	EN0020	Rayong
Temperature *	°C	-	-	30.8	<40	EN0067	Rayong
Total Dissolved Solids at 180°C	mg/L	-	5	464	<3000	EN0100	Rayong
Total Suspended Solids	mg/L	-	5	68	<200	EN0102	Rayong

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Analysis Report

Work Order	RA2803400	Date Received	Apr 10, 2026
Client	WHA Utilities and Power Public Company Limited	Date Reported	Apr 18, 2026
	27 Moo 2, Tambon Phana Nakhon, Amphoe Nakhon Phattana, Rayong, Thailand, 21100	Report Number	RA2803400-AA
Project	WHA Rayong 36		
Project Location	THAIYA CORPORATION LIMITED, J07_WWT_WHARayong36_002_2569		
Sample Number	RA2803400-001		
Sampled Date	Apr 10, 2026 10:56 AM		
Sample Name	Wastewater		
Sampling Site	THAIYA CORPORATION LIMITED		
Contract ID	WWT_WHARayong36_002_2569		
Pilot	J.07		
Date of Analysis	Apr 10, 2026		
Sampled by	Samart Khumthuee (+204-4-0084) Surawit Narapong (+323-4-0011)		
Condition of Sample	2x 1L Plastic Bottle, 1x Cyanide, 1x Plastic Bottle - Preserved with H2SO4, 1x Plastic Bottle - Preserved with Zinc Acetate and NaOH, 1x Oil & Grease, 1x Logsheet/ data, 1x Plastic Bottle - Preserved with HClO3, 1x Plastic Bottle - Preserved with NaOH, 1x 500mL Plastic Bottle, 1x 500mL Plastic bottle - Preserved with H2SO4, 1x Amber Glass Bottle - Unpreserved, refrigerated		
Physical Properties	yellow, strong odour, lots of solids, turbid		

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	106	<200	EN0044	Rayong
COD	mg/L	1.5	25	361	<400	EN0048	Rayong
Cyanide as HCl	mg/L	0.001	0.005	0.005	<0.2	EN0005	Rayong
Formaldehyde	mg/L	0.03	0.1	<0.1	s1	EN0010	Rayong
Oil & Grease	mg/L	-	3	9	<10	EN0048	Rayong
Phenol	mg/L	0.005	0.010	0.194	s1	EN0051	Rayong
Residual Free Chlorine *	mg/L	-	0.1	<0.1	s1	EN0027	Rayong
Sulfides *	mg/L	-	0.5	1.9	s1	EN0032	Rayong
Total Kjeldahl Nitrogen as N	mg/L	-	1.0	157	<100	EN0026	Rayong
Metals and Major Cations							
Hexavalent Chromium *	mg/L	0.003	0.01	Not Detected	<0.25	ME0006	Rayong
Metals and Major Cations - Total							
Arsenic *	mg/L	0.002	0.005	Not Detected	<0.25	ME0002	Rayong
Barium *	mg/L	0.002	0.005	0.100	s1	ME0002	Rayong
Cadmium *	mg/L	0.001	0.002	Not Detected	<0.03	ME0002	Rayong

Signatories

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

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Analysis Report

Work Order	RA2803400	Date Received	Apr 10, 2026
Client	WHA Utilities and Power Public Company Limited	Date Reported	Apr 18, 2026
	27 Moo 2, Tambon Phana Nakhon, Amphoe Nakhon Phattana, Rayong, Thailand, 21100	Report Number	RA2803400-AA
Project	WHA Rayong 36		
Project Location	THAIYA CORPORATION LIMITED, J07_WWT_WHARayong36_002_2569		
Sample Number	RA2803400-001		
Sampled Date	Apr 10, 2026 10:56 AM		
Sample Name	Wastewater		
Sampling Site	THAIYA CORPORATION LIMITED		
Contract ID	WWT_WHARayong36_002_2569		
Pilot	J.07		
Date of Analysis	Apr 10, 2026		
Sampled by	Samart Khumthuee (+204-4-0084) Surawit Narapong (+323-4-0011)		
Condition of Sample	2x 1L Plastic Bottle, 1x Cyanide, 1x Plastic Bottle - Preserved with H2SO4, 1x Plastic Bottle - Preserved with Zinc Acetate and NaOH, 1x Oil & Grease, 1x Logsheet/ data, 1x Plastic Bottle - Preserved with HClO3, 1x Plastic Bottle - Preserved with NaOH, 1x 500mL Plastic Bottle, 1x 500mL Plastic bottle - Preserved with H2SO4, 1x Amber Glass Bottle - Unpreserved, refrigerated		
Physical Properties	yellow, strong odour, lots of solids, turbid		

Guideline:	Environmental Impact Assessment Report of WHA Rayong 36 Industrial Estate
Comment:	Sampling is not included in scope of accreditation ISO/IEC 17025
Key:	- LOD : Limit of Detection < : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting) - Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025

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TESTING
No.0042

Analysis Report

Work Order	RA2603399	Date Received	Apr 10, 2026
Client	WHA Utilities and Power Public Company Limited	Date Reported	Apr 18, 2026
	27 Moo 2, Tambon Phansa Nakhon, Amphoe Nakhon Phattana, Rayong, Thailand, 21100	Report Number	RA2603399-AA
Project	WHA Rayong 36		
Project Location	THAIYA CORPORATION LIMITED_106_WWT_WHARayong36_001_2569		
Sample Number	RA2603399-001		
Sampled Date	Apr 10, 2026 10:48 AM		
Sample Name	Wastewater		
Sampling Site	THAIYA CORPORATION LIMITED		
Contract ID	WWT_WHARayong36_001_2569		
Plot	J.06		
Date of Analysis	Apr 10, 2026		
Sampled by	Samart Khumphlee (+204-4-0094) Surawit Narapong (+323-4-0011)		
Condition of Sample	2x 1L Plastic Bottle, 1x Cyanide, 1x Plastic bottle - Preserved with H2SO4, 1x Plastic Bottle - Preserved with Zinc Acetate and NaOH, 1x Oil & Grease, 1x Logsheet/ data, 1x Plastic Bottle - Preserved with HF03, 1x Plastic Bottle - Preserved with NaOH, 1x 500mL Plastic Bottle, 1x 500mL Plastic bottle - Preserved with H2SO4, 1x Amber Glass Bottle- Unpreserved, refrigerated yellow, strong odour, some solids, turbid		
Physical Properties			
Method	Testing Lab	Method Descriptions	
EN0026	Rayong	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500-Nitrg (C), part 1843 (D)	
ME0002	Rayong	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3120 B,3030 F	
ME0003	Rayong	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, Calculated APHA 3120 Calculation	
ME0005	Rayong	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3112 (B)	
ME0006	Rayong	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3500-Cr (B)	

— END OF REPORT —

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Analysis Report

Work Order	RA2603399	Date Received	Apr 10, 2026				
Client	WHA Utilities and Power Public Company Limited	Date Reported	Apr 18, 2026				
	27 Moo 2, Tambon Phansa Nakhon, Amphoe Nakhon Phattana, Rayong, Thailand, 21100	Report Number	RA2603399-AB				
Project	WHA Rayong 36						
Project Location	THAIYA CORPORATION LIMITED_106_WWT_WHARayong36_001_2569						
Sample Number	RA2603399-001						
Sampled Date	Apr 10, 2026 10:48 AM						
Sample Name	Wastewater						
Sampling Site	THAIYA CORPORATION LIMITED						
Contract ID	WWT_WHARayong36_001_2569						
Plot	J.06						
Date of Analysis	Apr 17, 2026						
Sampled by	Samart Khumphlee Surawit Narapong						
Condition of Sample	2x 1L Plastic Bottle, 1x Cyanide, 1x Plastic bottle - Preserved with H2SO4, 1x Plastic Bottle - Preserved with Zinc Acetate and NaOH, 1x Oil & Grease, 1x Logsheet/ data, 1x Plastic Bottle - Preserved with HF03, 1x Plastic Bottle - Preserved with NaOH, 1x 500mL Plastic Bottle, 1x 500mL Plastic bottle - Preserved with H2SO4, 1x Amber Glass Bottle- Unpreserved, refrigerated yellow, strong odour, some solids, turbid						
Physical Properties	yellow, strong odour, some solids, turbid						
Analytical Results							
Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Pesticides - Organochlorine							
Endrin	µg/L	0.01	0.02	Not Detected	Not Detected	E10069	Bangkok
gamma-BHC - (lindane)	µg/L	0.01	0.02	Not Detected	Not Detected	E10069	Bangkok
Heptachlor epoxide	µg/L	0.01	0.02	Not Detected	Not Detected	E10069	Bangkok
Methoxychlor	µg/L	0.01	0.02	Not Detected	Not Detected	E10069	Bangkok
Heptachlor	µg/L	0.01	0.02	Not Detected	Not Detected	E10069	Bangkok
Guideline: Environmental Impact Assessment Report of WHA Rayong 36 Industrial Estate							
Key: o LOD : Limit of Detection o "n" : 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	
E10069	Bangkok	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 6630 D, part 6410 B	

— END OF REPORT —

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Analysis Report

Work Order	RA2603399	Date Received	Apr 10, 2026				
Client	WHA Utilities and Power Public Company Limited	Date Reported	Apr 18, 2026				
	27 Moo 2, Tambon Phana Nakhon, Amphoe Nakhon Phattana, Rayong, Thailand, 21100	Report Number	RA2603399-AB				
Project	WHA Rayong 36						
Project Location	THAIYA CORPORATION LIMITED_106_WWT_WHARayong36_001_2569						
Sample Number	RA2603399-001						
Sampled Date	Apr 10, 2026 10:48 AM						
Sample Name	Wastewater						
Sampling Site	THAIYA CORPORATION LIMITED						
Contract ID	WWT_WHARayong36_001_2569						
Plot	J.06						
Date of Analysis	Apr 17, 2026						
Sampled by	Samart Khumphlee Surawit Narapong						
Condition of Sample	2x 1L Plastic Bottle, 1x Cyanide, 1x Plastic bottle - Preserved with H2SO4, 1x Plastic Bottle - Preserved with Zinc Acetate and NaOH, 1x Oil & Grease, 1x Logsheet/ data, 1x Plastic Bottle - Preserved with HF03, 1x Plastic Bottle - Preserved with NaOH, 1x 500mL Plastic Bottle, 1x 500mL Plastic bottle - Preserved with H2SO4, 1x Amber Glass Bottle- Unpreserved, refrigerated yellow, strong odour, some solids, turbid						
Physical Properties	yellow, strong odour, some solids, turbid						
Analytical Results							
Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Pesticides - Organochlorine							
2,4-DDD	µg/L	0.01	0.02	Not Detected	Not Detected	E10069	Bangkok
2,4-DDE	µg/L	0.01	0.02	Not Detected	Not Detected	E10069	Bangkok
2,4-DDT	µg/L	0.01	0.02	Not Detected	Not Detected	E10069	Bangkok
4,4-DDD	µg/L	0.01	0.02	Not Detected	Not Detected	E10069	Bangkok
4,4-DDE	µg/L	0.01	0.02	Not Detected	Not Detected	E10069	Bangkok
4,4-DDT	µg/L	0.01	0.02	Not Detected	Not Detected	E10069	Bangkok
Aldrin	µg/L	0.01	0.02	Not Detected	Not Detected	E10069	Bangkok
alpha-BHC	µg/L	0.01	0.02	Not Detected	Not Detected	E10069	Bangkok
beta-BHC	µg/L	0.01	0.02	Not Detected	Not Detected	E10069	Bangkok
Chlordane	µg/L	0.01	0.04	Not Detected	Not Detected	E10069	Bangkok
delta-BHC	µg/L	0.01	0.02	Not Detected	Not Detected	E10069	Bangkok
Dieldrin	µg/L	0.01	0.02	Not Detected	Not Detected	E10069	Bangkok
Endosulfan I (alpha isomer)	µg/L	0.01	0.02	Not Detected	Not Detected	E10069	Bangkok
Endosulfan II (beta isomer)	µg/L	0.01	0.02	Not Detected	Not Detected	E10069	Bangkok
Endrin aldehyde	µg/L	0.01	0.02	Not Detected	Not Detected	E10069	Bangkok

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Analysis Report

Work Order	RA2603399	Date Received	Apr 10, 2026				
Client	WHA Utilities and Power Public Company Limited	Date Reported	Apr 18, 2026				
	27 Moo 2, Tambon Phana Nakhon, Amphoe Nakhon Phattana, Rayong, Thailand, 21100	Report Number	RA2603399-AC				
Project	WHA Rayong 36						
Project Location	THAIYA CORPORATION LIMITED_106_WWT_WHARayong36_001_2569						
Sample Number	RA2603399-001						
Sampled Date	Apr 10, 2026 10:48 AM						
Sample Name	Wastewater						
Sampling Site	THAIYA CORPORATION LIMITED						
Contract ID	WWT_WHARayong36_001_2569						
Plot	J.06						
Date of Analysis	Apr 10, 2026						
Sampled by	Samart Khumphlee Surawit Narapong						
Condition of Sample	2x 1L Plastic Bottle, 1x Cyanide, 1x Plastic bottle - Preserved with H2SO4, 1x Plastic Bottle - Preserved with Zinc Acetate and NaOH, 1x Oil & Grease, 1x Logsheet/ data, 1x Plastic Bottle - Preserved with HF03, 1x Plastic Bottle - Preserved with NaOH, 1x 500mL Plastic Bottle, 1x 500mL Plastic bottle - Preserved with H2SO4, 1x Amber Glass Bottle- Unpreserved, refrigerated yellow, strong odour, some solids, turbid						
Physical Properties							
Analytical Results							
Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
Anionic Surfactants as MBAS	mg/L	-	0.05	0.94	≤30	E10043	Bangkok
Fluoride	mg/L	-	0.2	0.2	≤5	E10253	Rayong
Metals and Major Cations - Total							
Iron	mg/L	0.005	0.01	1.33	≤10	ME0002	Rayong
Silver	mg/L	0.005	0.01	Not Detected	≤1	ME0002	Rayong
Guideline:	Environmental Impact Assessment Report of WHA Rayong 36 Industrial Estate						
Key:	o LOD : Limit of Detection o "n" : 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					
E10043	Bangkok	Based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5540 B, C					
E10253	Rayong	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500-F (D)					
ME0002	Rayong	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3120 B, 3030 F					

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	
E10043	Bangkok	Based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5540 B, C	
E10253	Rayong	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500-F (D)	
ME0002	Rayong	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3120 B,3030 F	

Signatories

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Nardhawanee Somborn
Specialist 2

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TESTING
No.0042

Analysis Report

Work Order : RA2803399
Client : WHA Utilities and Power Public Company Limited
27 Moo 2, Tambon Phana Nakhon, Amphoe Nakhon Phatham, Rayong,
Thailand, 21100
Project : WHA Rayong 36
Project Location : THAIYA CORPORATION LIMITED, J06_WWT_WHARayong36_001_2569

Sample Number : RA2803399-001
Sample Date : Apr 10, 2026 10:48 AM
Sample Name : Wastewater
Sampling Site : THAIYA CORPORATION LIMITED
Contract ID : WWT_WHARayong36_001_2569
Plot : J.06
Date of Analysis : Apr 10, 2026
Sampled by : Samart Khumhiew (+204-4-0084)
Surawit Narapong (+323-4-0011)

Condition of Sample : 2x 1L Plastic Bottle, 1x Cyanide, 1x Plastic bottle - Preserved with H2SO4, 1x Plastic Bottle - Preserved with Zinc Acetate and NaOH, 1x Oil & Grease, 1x Logsheet/ data, 1x Plastic Bottle - Preserved with HClO3, 1x Plastic Bottle - Preserved with NaOH, 1x 500mL Plastic Bottle, 1x 500mL Plastic bottle - Preserved with H2SO4, 1x Amber Glass Bottle - Unpreserved, refrigerated
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	≤200	EN1044	Rayong
COD	mg/L	1.5	25	<25	≤400	EN1046	Rayong
Cyanide as HCN	mg/L	0.001	0.005	Not Detected	≤0.2	EN1005	Rayong
Formaldehyde	mg/L	0.03	0.1	<0.1	≤1	EN1010	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	EN1048	Rayong
Phenol	mg/L	0.005	0.010	Not Detected	≤1	EN1051	Rayong
Residual Free Chlorine *	mg/L	-	0.1	<0.1	≤1	EN1027	Rayong
Sulfides *	mg/L	-	0.5	<0.5	≤1	EN1032	Rayong
Total Kjeldahl Nitrogen as N	mg/L	-	1.0	15.9	≤100	EN1026	Rayong
Metals and Major Cations							
Hexavalent Chromium *	mg/L	0.003	0.01	Not Detected	≤0.25	ME0090	Rayong
Metals and Major Cations - Total							
Arsenic *	mg/L	0.002	0.005	Not Detected	≤0.25	ME0002	Rayong
Barium *	mg/L	0.002	0.005	0.119	≤1	ME0002	Rayong
Cadmium *	mg/L	0.001	0.002	Not Detected	≤0.03	ME0002	Rayong

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TESTING
No.0042

Analysis Report

Work Order : RA2803399
Client : WHA Utilities and Power Public Company Limited
27 Moo 2, Tambon Phana Nakhon, Amphoe Nakhon Phatham, Rayong,
Thailand, 21100
Project : WHA Rayong 36
Project Location : THAIYA CORPORATION LIMITED, J06_WWT_WHARayong36_001_2569

Sample Number : RA2803399-001
Sample Date : Apr 10, 2026 10:48 AM
Sample Name : Wastewater
Sampling Site : THAIYA CORPORATION LIMITED
Contract ID : WWT_WHARayong36_001_2569
Plot : J.06
Date of Analysis : Apr 10, 2026
Sampled by : Samart Khumhiew (+204-4-0084)
Surawit Narapong (+323-4-0011)

Condition of Sample : 2x 1L Plastic Bottle, 1x Cyanide, 1x Plastic bottle - Preserved with H2SO4, 1x Plastic Bottle - Preserved with Zinc Acetate and NaOH, 1x Oil & Grease, 1x Logsheet/ data, 1x Plastic Bottle - Preserved with HClO3, 1x Plastic Bottle - Preserved with NaOH, 1x 500mL Plastic Bottle, 1x 500mL Plastic bottle - Preserved with H2SO4, 1x Amber Glass Bottle - Unpreserved, refrigerated
yellow, strong odour, some solids, turbid

Physical Properties	
Guideline :	Environmental Impact Assessment Report of WHA Rayong 36 Industrial Estate
Comment :	Sampling is not included in scope of accreditation ISO/IEC 17025
Key :	- LOD : Limit of Detection < : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting) - Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025

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TESTING
No.0042

Analysis Report

Work Order : RA2803399
Client : WHA Utilities and Power Public Company Limited
27 Moo 2, Tambon Phana Nakhon, Amphoe Nakhon Phatham, Rayong,
Thailand, 21100
Project : WHA Rayong 36
Project Location : THAIYA CORPORATION LIMITED, J06_WWT_WHARayong36_001_2569

Sample Number : RA2803399-001
Sample Date : Apr 10, 2026 10:48 AM
Sample Name : Wastewater
Sampling Site : THAIYA CORPORATION LIMITED
Contract ID : WWT_WHARayong36_001_2569
Plot : J.06
Date of Analysis : Apr 10, 2026
Sampled by : Samart Khumhiew (+204-4-0084)
Surawit Narapong (+323-4-0011)

Condition of Sample : 2x 1L Plastic Bottle, 1x Cyanide, 1x Plastic bottle - Preserved with H2SO4, 1x Plastic Bottle - Preserved with Zinc Acetate and NaOH, 1x Oil & Grease, 1x Logsheet/ data, 1x Plastic Bottle - Preserved with HClO3, 1x Plastic Bottle - Preserved with NaOH, 1x 500mL Plastic Bottle, 1x 500mL Plastic bottle - Preserved with H2SO4, 1x Amber Glass Bottle - Unpreserved, refrigerated
yellow, strong odour, some solids, turbid

Analytical Results							
Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Metals and Major Cations - Total							
Copper *	mg/L	0.005	0.01	Not Detected	≤2	ME0002	Rayong
Lead *	mg/L	0.002	0.005	<0.005	≤0.2	ME0002	Rayong
Manganese *	mg/L	0.001	0.002	0.051	≤5	ME0002	Rayong
Mercury *	mg/L	0.0001	0.0005	Not Detected	≤0.005	ME0005	Rayong
Nickel *	mg/L	0.002	0.005	<0.005	≤1	ME0002	Rayong
Selenium *	mg/L	0.005	0.01	Not Detected	≤0.02	ME0002	Rayong
Trivalent Chromium *	mg/L	-	0.01	<0.01	≤0.75	ME0003	Rayong
Zinc *	mg/L	0.005	0.01	0.02	≤5	ME0002	Rayong
Physical and Aggregate Properties							
Color (at Original pH)	ADMI	-	5	9	≤600	EN1080	Rayong
Color (at pH 7.0)	ADMI	-	5	8	≤600	EN1080	Rayong
pH - Field *	pH Unit	-	1.0	7.6	6-9	EN1020	Rayong
Temperature *	°C	-	-	33.0	≤40	EN1097	Rayong
Total Dissolved Solids at 180°C	mg/L	-	5	260	≤3000	EN1100	Rayong
Total Suspended Solids	mg/L	-	5	27	≤200	EN1102	Rayong

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

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TESTING
No.0042

Analysis Report

Work Order : RA2803399
Client : WHA Utilities and Power Public Company Limited
27 Moo 2, Tambon Phana Nakhon, Amphoe Nakhon Phatham, Rayong,
Thailand, 21100
Project : WHA Rayong 36
Project Location : THAIYA CORPORATION LIMITED, J06_WWT_WHARayong36_001_2569

Sample Number : RA2803399-001
Sample Date : Apr 10, 2026 10:48 AM
Sample Name : Wastewater
Sampling Site : THAIYA CORPORATION LIMITED
Contract ID : WWT_WHARayong36_001_2569
Plot : J.06
Date of Analysis : Apr 10, 2026
Sampled by : Samart Khumhiew (+204-4-0084)
Surawit Narapong (+323-4-0011)

Condition of Sample : 2x 1L Plastic Bottle, 1x Cyanide, 1x Plastic bottle - Preserved with H2SO4, 1x Plastic Bottle - Preserved with Zinc Acetate and NaOH, 1x Oil & Grease, 1x Logsheet/ data, 1x Plastic Bottle - Preserved with HClO3, 1x Plastic Bottle - Preserved with NaOH, 1x 500mL Plastic Bottle, 1x 500mL Plastic bottle - Preserved with H2SO4, 1x Amber Glass Bottle - Unpreserved, refrigerated
yellow, strong odour, some solids, turbid

Physical Properties		
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
EN1005	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2024, part 4500 - CN (C), E
EN1010	Rayong	Wastewater analysis manual, Environmental Engineering Association of Thailand, 4th ed., 2004
EN1006	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN10027	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - Cl (F)
EN10032	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - S2 (C, F)
EN10044	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - D (C)
EN10048	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN10048	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN10051	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5530 B, D
EN10069	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 6630 D, part 6410 B
EN10090	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2120 F
EN10097	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B
EN10100	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C
EN10102	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

Signatories
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TESTING
No.0009

Analysis Report

Work Order	RA2603217	Date Received	Apr 07, 2026
Client	WHA Utilities and Power Public Company Limited 27 Moo 2, Tambon Phana Nakhon, Amphoe Nakhon Phathamni, Rayong, Thailand, 21100	Date Reported	Apr 18, 2026
Project	WHA Rayong 36	Report Number	RA2603217-AB
Project Location	Faurecia Automotive Parts (Thailand) Co., Ltd., J11-2, WWT_WHARayong36_014_2567		
Sample Number	RA2603217-001		
Sample Date	Apr 07, 2026 10:20 AM		
Sample Name	Wastewater		
Sampling Site	Faurecia Automotive Parts (Thailand) Co., Ltd.		
Contract ID	WWT_WHARayong36_014_2567		
Plot	J11-2		
Date of Analysis	Apr 08, 2026		
Sampled by	Akkarin Budsakster Chalermchai Roncub		
Condition of Sample	1x 500mL Plastic Bottle, 1x Cyanide, 1x Plastic Bottle - Preserved with H2SO4, 1x Plastic Bottle - Preserved with Zinc Acetate and NaOH, 1x Oil & Grease, 1x Logsheet/ data, 1x Plastic Bottle - Preserved with HFO3, 2x 1L Plastic Bottle, 1x Plastic Bottle - Preserved with NaOH, 2x Amber Glass Bottle- Unpreserved, 1x 500mL Plastic bottle - Preserved with H2SO4, refrigerated yellow, strong odour, lots of solids, turbid		

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Pesticides - Organochlorine							
Endrin	µg/L	0.01	0.02	Not Detected	Not Detected	EN0069	Bangkok
gamma-BHC - (lindane)	µg/L	0.01	0.02	Not Detected	Not Detected	EN0069	Bangkok
Heptachlor epoxide	µg/L	0.01	0.02	Not Detected	Not Detected	EN0069	Bangkok
Methoxychlor	µg/L	0.01	0.02	Not Detected	Not Detected	EN0069	Bangkok
Heptachlor	µg/L	0.01	0.02	Not Detected	Not Detected	EN0069	Bangkok

Guideline: Environmental Impact Assessment Report of WHA Rayong 36 Industrial Estate

Comment: Sampling is 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
EN0069	Bangkok	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 6630 D, part 6410 B

Signatories

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Siriruk Bunsak
Section Head
~204-a-0013

Karokkum Anek

Karokkum Anek
Assistant General Manager
~204-a-0004

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Analysis Report

Work Order	RA2603217	Date Received	Apr 07, 2026
Client	WHA Utilities and Power Public Company Limited 27 Moo 2, Tambon Phana Nakhon, Amphoe Nakhon Phathamni, Rayong, Thailand, 21100	Date Reported	Apr 18, 2026
Project	WHA Rayong 36	Report Number	RA2603217-AC
Project Location	Faurecia Automotive Parts (Thailand) Co., Ltd., J11-2, WWT_WHARayong36_014_2567		
Sample Number	RA2603217-001		
Sample Date	Apr 07, 2026 10:20 AM		
Sample Name	Wastewater		
Sampling Site	Faurecia Automotive Parts (Thailand) Co., Ltd.		
Contract ID	WWT_WHARayong36_014_2567		
Plot	J11-2		
Date of Analysis	Apr 07, 2026		
Sampled by	Akkarin Budsakster Chalermchai Roncub		
Condition of Sample	1x 500mL Plastic Bottle, 1x Cyanide, 1x Plastic Bottle - Preserved with H2SO4, 1x Plastic Bottle - Preserved with Zinc Acetate and NaOH, 1x Oil & Grease, 1x Logsheet/ data, 1x Plastic Bottle - Preserved with HFO3, 2x 1L Plastic Bottle, 1x Plastic Bottle - Preserved with NaOH, 2x Amber Glass Bottle- Unpreserved, 1x 500mL Plastic bottle - Preserved with H2SO4, refrigerated yellow, strong odour, lots of solids, turbid		

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
Anionic Surfactants as MBAS	mg/L	-	0.05	7.18	≤30	EN0043	Bangkok
Fluoride	mg/L	-	0.2	0.2	≤5	EN0253	Rayong
Metals and Major Cations - Total							
Iron	mg/L	0.005	0.01	0.55	≤10	ME0002	Rayong
Silver	mg/L	0.005	0.01	Not Detected	≤1	ME0002	Rayong

Guideline: Environmental Impact Assessment Report of WHA Rayong 36 Industrial Estate

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

Brief Method Summaries

The methods in the analysis report are short format, refer to full test methods in accordance with the ISO/IEC 17025 certificate no. specified in the analysis report.

Method	Testing Lab	Method Descriptions
EN0043	Bangkok	Based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5540 B, C
EN0253	Rayong	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500-F (D)
ME0002	Rayong	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3120 B, 3030 F

Signatories

Jitsupa P.

Jitsupa Prathangpuk
Scientist (2)

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TESTING
No.0009

Analysis Report

Work Order	RA2603217	Date Received	Apr 07, 2026
Client	WHA Utilities and Power Public Company Limited 27 Moo 2, Tambon Phana Nakhon, Amphoe Nakhon Phathamni, Rayong, Thailand, 21100	Date Reported	Apr 18, 2026
Project	WHA Rayong 36	Report Number	RA2603217-AB
Project Location	Faurecia Automotive Parts (Thailand) Co., Ltd., J11-2, WWT_WHARayong36_014_2567		
Sample Number	RA2603217-001		
Sample Date	Apr 07, 2026 10:20 AM		
Sample Name	Wastewater		
Sampling Site	Faurecia Automotive Parts (Thailand) Co., Ltd.		
Contract ID	WWT_WHARayong36_014_2567		
Plot	J11-2		
Date of Analysis	Apr 08, 2026		
Sampled by	Akkarin Budsakster Chalermchai Roncub		
Condition of Sample	1x 500mL Plastic Bottle, 1x Cyanide, 1x Plastic Bottle - Preserved with H2SO4, 1x Plastic Bottle - Preserved with Zinc Acetate and NaOH, 1x Oil & Grease, 1x Logsheet/ data, 1x Plastic Bottle - Preserved with HFO3, 2x 1L Plastic Bottle, 1x Plastic Bottle - Preserved with NaOH, 2x Amber Glass Bottle- Unpreserved, 1x 500mL Plastic bottle - Preserved with H2SO4, refrigerated yellow, strong odour, lots of solids, turbid		

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Pesticides - Organochlorine							
Endrin	µg/L	0.01	0.02	Not Detected	Not Detected	EN0069	Bangkok
gamma-BHC - (lindane)	µg/L	0.01	0.02	Not Detected	Not Detected	EN0069	Bangkok
Heptachlor epoxide	µg/L	0.01	0.02	Not Detected	Not Detected	EN0069	Bangkok
Methoxychlor	µg/L	0.01	0.02	Not Detected	Not Detected	EN0069	Bangkok
Heptachlor	µg/L	0.01	0.02	Not Detected	Not Detected	EN0069	Bangkok

Guideline: Environmental Impact Assessment Report of WHA Rayong 36 Industrial Estate

Comment: Sampling is 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
EN0069	Bangkok	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 6630 D, part 6410 B

Signatories

Siriruk P.

Siriruk Bunsak
Section Head
~204-a-0013

Karokkum Anek

Karokkum Anek
Assistant General Manager
~204-a-0004

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Analysis Report

Work Order	RA2603217	Date Received	Apr 07, 2026
Client	WHA Utilities and Power Public Company Limited 27 Moo 2, Tambon Phana Nakhon, Amphoe Nakhon Phathamni, Rayong, Thailand, 21100	Date Reported	Apr 18, 2026
Project	WHA Rayong 36	Report Number	RA2603217-AC
Project Location	Faurecia Automotive Parts (Thailand) Co., Ltd., J11-2, WWT_WHARayong36_014_2567		
Sample Number	RA2603217-001		
Sample Date	Apr 07, 2026 10:20 AM		
Sample Name	Wastewater		
Sampling Site	Faurecia Automotive Parts (Thailand) Co., Ltd.		
Contract ID	WWT_WHARayong36_014_2567		
Plot	J11-2		
Date of Analysis	Apr 07, 2026		
Sampled by	Akkarin Budsakster Chalermchai Roncub		
Condition of Sample	1x 500mL Plastic Bottle, 1x Cyanide, 1x Plastic Bottle - Preserved with H2SO4, 1x Plastic Bottle - Preserved with Zinc Acetate and NaOH, 1x Oil & Grease, 1x Logsheet/ data, 1x Plastic Bottle - Preserved with HFO3, 2x 1L Plastic Bottle, 1x Plastic Bottle - Preserved with NaOH, 2x Amber Glass Bottle- Unpreserved, 1x 500mL Plastic bottle - Preserved with H2SO4, refrigerated yellow, strong odour, lots of solids, turbid		

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
Anionic Surfactants as MBAS	mg/L	-	0.05	7.18	≤30	EN0043	Bangkok
Fluoride	mg/L	-	0.2	0.2	≤5	EN0253	Rayong
Metals and Major Cations - Total							
Iron	mg/L	0.005	0.01	0.55	≤10	ME0002	Rayong
Silver	mg/L	0.005	0.01	Not Detected	≤1	ME0002	Rayong

Guideline: Environmental Impact Assessment Report of WHA Rayong 36 Industrial Estate

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

Brief Method Summaries

The methods in the analysis report are short format, refer to full test methods in accordance with the ISO/IEC 17025 certificate no. specified in the analysis report.

Method	Testing Lab	Method Descriptions
EN0043	Bangkok	Based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5540 B, C
EN0253	Rayong	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500-F (D)
ME0002	Rayong	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3120 B, 3030 F

Signatories

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Jitsupa Prathangpuk
Scientist (2)

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Analysis Report

Work Order : RA2603217
Client : WHA Utilities and Power Public Company Limited
27 Moo 2, Tambon Phana Nakhon, Amphoe Nakhon Phatham, Rayong,
Thailand, 21180
Project : WHA Rayong 36
Project Location : Faurecia Automotive Parts (Thailand) Co., Ltd., J11-2, WWT_WHARayong36_014_2567
Sample Number : RA2603217-001
Sample Date : Apr 07, 2026 10:20 AM
Sample Name : Wastewater
Sampling Site : Faurecia Automotive Parts (Thailand) Co., Ltd.
Contract ID : WWT_WHARayong36_014_2567
Plot : J11-2
Date of Analysis : Apr 07, 2026
Sampled by : Akkarin Buduakiet (+204-4-0196)
Chalekchai Roncub (+323-4-0065)
Condition of Sample : 1x 500mL Plastic Bottle, 1x Cyanide, 1x Plastic Bottle - Preserved with H2SO4, 1x Plastic Bottle - Preserved with Zinc Acetate and NaOH, 1x Oil & Grease, 1x Loghead/ data, 1x Plastic Bottle - Preserved with HNO3, 2x 1L Plastic Bottle, 1x Plastic Bottle - Preserved with NaOH, 2x Amber Glass Bottle- Unpreserved, 1x 500mL Plastic bottle - Preserved with H2SO4, refrigerated
yellow, strong odour, lots of solids, turbid
Physical Properties
Guideline : Environmental Impact Assessment Report of WHA Rayong 36 Industrial Estate
Comment : Sampling is not included in scope of accreditation ISO/IEC 17025
Key :

- LOD : Limit of Detection
- <L : Lower than LOD (Limit of Quantification) / LOR (Limit of Reporting)
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC17025

Signatories

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Analysis Report

Work Order : RA2603217
Client : WHA Utilities and Power Public Company Limited
27 Moo 2, Tambon Phana Nakhon, Amphoe Nakhon Phatham, Rayong,
Thailand, 21180
Project : WHA Rayong 36
Project Location : Faurecia Automotive Parts (Thailand) Co., Ltd., J11-2, WWT_WHARayong36_014_2567
Sample Number : RA2603217-001
Sample Date : Apr 07, 2026 10:20 AM
Sample Name : Wastewater
Sampling Site : Faurecia Automotive Parts (Thailand) Co., Ltd.
Contract ID : WWT_WHARayong36_014_2567
Plot : J11-2
Date of Analysis : Apr 07, 2026
Sampled by : Akkarin Buduakiet (+204-4-0196)
Chalekchai Roncub (+323-4-0065)
Condition of Sample : 1x 500mL Plastic Bottle, 1x Cyanide, 1x Plastic Bottle - Preserved with H2SO4, 1x Plastic Bottle - Preserved with Zinc Acetate and NaOH, 1x Oil & Grease, 1x Loghead/ data, 1x Plastic Bottle - Preserved with HNO3, 2x 1L Plastic Bottle, 1x Plastic Bottle - Preserved with NaOH, 2x Amber Glass Bottle- Unpreserved, 1x 500mL Plastic bottle - Preserved with H2SO4, refrigerated
yellow, strong odour, lots of solids, turbid
Physical Properties
Method Testing Lab Method Descriptions
ME0002 Raying Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3120 B, 3030 F
ME0003 Raying Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, Calculated APHA 3120 Calculation
ME0005 Raying Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3112 (B)
ME0008 Raying Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3500-Cr (B)

END OF REPORT

Signatories

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Analysis Report

Work Order : RA2603217
Client : WHA Utilities and Power Public Company Limited
27 Moo 2, Tambon Phana Nakhon, Amphoe Nakhon Phatham, Rayong,
Thailand, 21180
Project : WHA Rayong 36
Project Location : Faurecia Automotive Parts (Thailand) Co., Ltd., J11-2, WWT_WHARayong36_014_2567
Sample Number : RA2603217-001
Sample Date : Apr 07, 2026 10:20 AM
Sample Name : Wastewater
Sampling Site : Faurecia Automotive Parts (Thailand) Co., Ltd.
Contract ID : WWT_WHARayong36_014_2567
Plot : J11-2
Date of Analysis : Apr 07, 2026
Sampled by : Akkarin Buduakiet (+204-4-0196)
Chalekchai Roncub (+323-4-0065)
Condition of Sample : 1x 500mL Plastic Bottle, 1x Cyanide, 1x Plastic Bottle - Preserved with H2SO4, 1x Plastic Bottle - Preserved with Zinc Acetate and NaOH, 1x Oil & Grease, 1x Loghead/ data, 1x Plastic Bottle - Preserved with HNO3, 2x 1L Plastic Bottle, 1x Plastic Bottle - Preserved with NaOH, 2x Amber Glass Bottle- Unpreserved, 1x 500mL Plastic bottle - Preserved with H2SO4, refrigerated
yellow, strong odour, lots of solids, turbid
Physical Properties
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
E10005	Raying	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - CN (C), E
E10016	Raying	Wastewater analysis manual, Environmental Engineering Association of Thailand, 4th ed., 2004
E10026	Raying	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
E10027	Raying	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - Cl (F)
E10032	Raying	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - S2 (C, F)
E10044	Raying	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - D (G)
E10048	Raying	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
E10049	Raying	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
E10051	Raying	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5530 B, D
E10080	Raying	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2120 F
E10097	Raying	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2550 B
E10100	Raying	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 C
E10102	Raying	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 D
E10228	Raying	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500-Hong (C), part 1840 (D)

Signatories

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Analysis Report

Work Order : RA2603217
Client : WHA Utilities and Power Public Company Limited
27 Moo 2, Tambon Phana Nakhon, Amphoe Nakhon Phatham, Rayong,
Thailand, 21180
Project : WHA Rayong 36
Project Location : Faurecia Automotive Parts (Thailand) Co., Ltd., J11-2, WWT_WHARayong36_014_2567
Sample Number : RA2603217-001
Sample Date : Apr 07, 2026 10:20 AM
Sample Name : Wastewater
Sampling Site : Faurecia Automotive Parts (Thailand) Co., Ltd.
Contract ID : WWT_WHARayong36_014_2567
Plot : J11-2
Date of Analysis : Apr 08, 2026
Sampled by : Akkarin Buduakiet
Chalekchai Roncub
Condition of Sample : 1x 500mL Plastic Bottle, 1x Cyanide, 1x Plastic Bottle - Preserved with H2SO4, 1x Plastic Bottle - Preserved with Zinc Acetate and NaOH, 1x Oil & Grease, 1x Loghead/ data, 1x Plastic Bottle - Preserved with HNO3, 2x 1L Plastic Bottle, 1x Plastic Bottle - Preserved with NaOH, 2x Amber Glass Bottle- Unpreserved, 1x 500mL Plastic bottle - Preserved with H2SO4, refrigerated
yellow, strong odour, lots of solids, turbid
Physical Properties
Analytical Results

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Pesticides - Organochlorine							
2,4-DDB	µg/L	0.01	0.02	Not Detected	Not Detected	E10069	Bangkok
2,4-DDE	µg/L	0.01	0.02	Not Detected	Not Detected	E10069	Bangkok
2,4-DDT	µg/L	0.01	0.02	Not Detected	Not Detected	E10069	Bangkok
4,4-DDD	µg/L	0.01	0.02	Not Detected	Not Detected	E10069	Bangkok
4,4-DDE	µg/L	0.01	0.02	Not Detected	Not Detected	E10069	Bangkok
4,4-DDT	µg/L	0.01	0.02	Not Detected	Not Detected	E10069	Bangkok
Aldrin	µg/L	0.01	0.02	Not Detected	Not Detected	E10069	Bangkok
alpha-BHC	µg/L	0.01	0.02	Not Detected	Not Detected	E10069	Bangkok
beta-BHC	µg/L	0.01	0.02	Not Detected	Not Detected	E10069	Bangkok
Chlordane	µg/L	0.01	0.04	Not Detected	Not Detected	E10069	Bangkok
delta-BHC	µg/L	0.01	0.02	Not Detected	Not Detected	E10069	Bangkok
Dieldrin	µg/L	0.01	0.02	Not Detected	Not Detected	E10069	Bangkok
Endosulfan I (alpha isomer)	µg/L	0.01	0.02	Not Detected	Not Detected	E10069	Bangkok
Endosulfan II (beta isomer)	µg/L	0.01	0.02	Not Detected	Not Detected	E10069	Bangkok
Endrin aldehyde	µg/L	0.01	0.02	Not Detected	Not Detected	E10069	Bangkok

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Analysis Report

Work Order : RA2803216
Client : WHA Utilities and Power Public Company Limited
27 Moo 2, Tambon Phana Nakhon, Amphoe Nakhon Phathamni, Rayong,
Thailand, 21100
Project : WHA Rayong 36
Project Location : Silverspark Development (Thailand) Co., Ltd., J12, WWT_WHARayong36_013_2567

Sample Number : RA2803216-001
Sampled Date : Apr 07, 2026 10:10 AM
Sample Name : Wastewater
Sampling Site : Silverspark Development (Thailand) Co., Ltd.
Contract ID : WWT_WHARayong36_013_2567
Plot : J12
Date of Analysis : Apr 07, 2026
Sampled by : Chaloemchai Bonrub (1-323-9-0065)
Condition of Sample : 1x 500mL Plastic Bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet/ data, 1x 1L Plastic Bottle, refrigerated
Physical Properties : yellow, strong odour, lots of solids, turbid

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	69.1	<200	EN6044	Rayong
COD	mg/L	1.5	25	199	<400	EN6046	Rayong
Oil & Grease	mg/L	-	3	9	≤10	EN6048	Rayong
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.8	6-9	EN6020	Rayong
Temperature *	°C	-	-	32.3	≤40	EN6097	Rayong
Total Dissolved Solids at 180°C	mg/L	-	5	348	≤3000	EN6100	Rayong
Total Suspended Solids	mg/L	-	5	30	≤200	EN6102	Rayong

Guideline : Environmental Impact Assessment Report of WHA Rayong 36 Industrial Estate

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

Key :

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

Signatories

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Analysis Report

Work Order : RA2803217
Client : WHA Utilities and Power Public Company Limited
27 Moo 2, Tambon Phana Nakhon, Amphoe Nakhon Phathamni, Rayong,
Thailand, 21100
Project : WHA Rayong 36
Project Location : Faurecia Automotive Parts (Thailand) Co., Ltd., J11-2, WWT_WHARayong36_014_2567

Sample Number : RA2803217-001
Sampled Date : Apr 07, 2026 10:20 AM
Sample Name : Wastewater
Sampling Site : Faurecia Automotive Parts (Thailand) Co., Ltd.
Contract ID : WWT_WHARayong36_014_2567
Plot : J11-2
Date of Analysis : Apr 07, 2026
Sampled by : Akkarin Budsakulke (1-204-9-0196)
Chaloemchai Bonrub (1-323-9-0065)
Condition of Sample : 1x 500mL Plastic Bottle, 1x Cyanide, 1x Plastic bottle - Preserved with H2SO4, 1x Plastic Bottle - Preserved with Zinc Acetate and NaOH, 1x Oil & Grease, 1x Logsheet/ data, 1x Plastic Bottle - Preserved with HNO3, 2x 1L Plastic Bottle, 1x Plastic Bottle - Preserved with NaOH, 2x Amber Glass Bottle - Unpreserved, 1x 500mL Plastic bottle - Preserved with H2SO4, refrigerated
Physical Properties : yellow, strong odour, lots of solids, turbid

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	84.2	<200	EN6044	Rayong
COD	mg/L	1.5	25	394	<400	EN6046	Rayong
Cyanide as HCN	mg/L	0.001	0.005	Not Detected	≤0.2	EN6005	Rayong
Formaldehyde	mg/L	0.03	0.1	0.1	≤1	EN6010	Rayong
Oil & Grease	mg/L	-	3	15	≤10	EN6048	Rayong
Phenol	mg/L	0.005	0.010	0.044	≤1	EN6051	Rayong
Residual Free Chlorine *	mg/L	-	0.1	<0.1	≤1	EN6027	Rayong
Sulfides *	mg/L	-	0.5	5.2	≤1	EN6032	Rayong
Total Kjeldahl Nitrogen as N	mg/L	-	1.0	144	≤100	EN6026	Rayong

Metals and Major Cations
Hexavalent Chromium *

Hexavalent Chromium *	mg/L	0.003	0.01	Not Detected	≤0.25	ME0090	Rayong
Metals and Major Cations - Total							
Arsenic *	mg/L	0.002	0.005	Not Detected	≤0.25	ME0002	Rayong
Barium *	mg/L	0.002	0.005	0.101	≤1	ME0002	Rayong
Cadmium *	mg/L	0.001	0.002	Not Detected	≤0.03	ME0002	Rayong

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Analysis Report

Work Order : RA2803216
Client : WHA Utilities and Power Public Company Limited
27 Moo 2, Tambon Phana Nakhon, Amphoe Nakhon Phathamni, Rayong,
Thailand, 21100
Project : WHA Rayong 36
Project Location : Silverspark Development (Thailand) Co., Ltd., J12, WWT_WHARayong36_013_2567

Sample Number : RA2803216-001
Sampled Date : Apr 07, 2026 10:10 AM
Sample Name : Wastewater
Sampling Site : Silverspark Development (Thailand) Co., Ltd.
Contract ID : WWT_WHARayong36_013_2567
Plot : J12
Date of Analysis : Apr 07, 2026
Sampled by : Chaloemchai Bonrub (1-323-9-0065)
Condition of Sample : 1x 500mL Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet/ data, 1x 1L Plastic Bottle, refrigerated
Physical Properties : yellow, strong odour, lots of solids, turbid

Method	Testing Lab	Method Description
EN60025	Rayong	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN6004	Rayong	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (C)
EN6048	Rayong	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN6046	Rayong	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN6097	Rayong	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 2550 B
EN6100	Rayong	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 2540 C
EN6102	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 : RA2803217
Client : WHA Utilities and Power Public Company Limited
27 Moo 2, Tambon Phana Nakhon, Amphoe Nakhon Phathamni, Rayong,
Thailand, 21100
Project : WHA Rayong 36
Project Location : Faurecia Automotive Parts (Thailand) Co., Ltd., J11-2, WWT_WHARayong36_014_2567

Sample Number : RA2803217-001
Sampled Date : Apr 07, 2026 10:20 AM
Sample Name : Wastewater
Sampling Site : Faurecia Automotive Parts (Thailand) Co., Ltd.
Contract ID : WWT_WHARayong36_014_2567
Plot : J11-2
Date of Analysis : Apr 07, 2026
Sampled by : Akkarin Budsakulke (1-204-9-0196)
Chaloemchai Bonrub (1-323-9-0065)
Condition of Sample : 1x 500mL Plastic Bottle, 1x Cyanide, 1x Plastic bottle - Preserved with H2SO4, 1x Plastic Bottle - Preserved with Zinc Acetate and NaOH, 1x Oil & Grease, 1x Logsheet/ data, 1x Plastic Bottle - Preserved with HNO3, 2x 1L Plastic Bottle, 1x Plastic Bottle - Preserved with NaOH, 2x Amber Glass Bottle - Unpreserved, 1x 500mL Plastic bottle - Preserved with H2SO4, refrigerated
Physical Properties : yellow, strong odour, lots of solids, turbid

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Metals and Major Cations - Total							
Copper *	mg/L	0.005	0.01	0.04	≤2	ME0002	Rayong
Lead *	mg/L	0.002	0.005	Not Detected	≤0.2	ME0002	Rayong
Manganese *	mg/L	0.001	0.002	0.073	≤5	ME0002	Rayong
Mercury *	mg/L	0.0001	0.0005	Not Detected	≤0.005	ME0005	Rayong
Nickel *	mg/L	0.002	0.005	0.009	≤1	ME0002	Rayong
Selenium *	mg/L	0.005	0.01	<0.01	≤0.02	ME0002	Rayong
Trivalent Chromium	mg/L	-	0.01	<0.01	≤0.75	ME0003	Rayong
Zinc *	mg/L	0.005	0.01	0.18	≤5	ME0002	Rayong

Physical and Aggregate Properties
Color (at Original pH)
Color (at pH 7.0)
pH - Field *
Temperature *
Total Dissolved Solids at 180°C
Total Suspended Solids

Color (at Original pH)	ADMI	-	5	118	≤600	EN6080	Rayong
Color (at pH 7.0)	ADMI	-	5	115	≤600	EN6080	Rayong
pH - Field *	pH Unit	-	1.0	7.7	6-9	EN6020	Rayong
Temperature *	°C	-	-	32.6	≤40	EN6097	Rayong
Total Dissolved Solids at 180°C	mg/L	-	5	452	≤3000	EN6100	Rayong
Total Suspended Solids	mg/L	-	5	77	≤200	EN6102	Rayong

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Analysis Report

Work Order : RA2603213
Client : WHA Utilities and Power Public Company Limited
27 Moo 2, Tambon Phana Nakhon, Amphoe Nakhon Phathamni, Rayong,
Thailand, 21100
Project : WHA Rayong 36
Project Location : TAWAY Electric Company Limited, J.08_WWT_WHARayong36_004_2567
Sample Number : RA2603213-001
Sample Date : Apr 07, 2026 10:35 AM
Sample Name : Wastewater
Sampling Site : TAWAY Electric Company Limited
Contract ID : WWT_WHARayong36_004_2567
Plot : J.09
Date of Analysis : Apr 07, 2026
Sampled by : Chaloemchai Bonrub (1-323-4-0065)
Condition of Sample : 1x 500mL Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet/ data, 1x 1L Plastic Bottle, refrigerated
Physical Properties : yellow, strong odour, some solids, turbid

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	41.7	<200	E10044	Rayong
COD	mg/L	1.5	25	181	<400	E10046	Rayong
Oil & Grease	mg/L	-	3	8	≤10	E10048	Rayong
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	8.1	6-9	E10020	Rayong
Temperature *	°C	-	-	32.7	≤40	E10097	Rayong
Total Dissolved Solids at 180°C	mg/L	-	5	528	≤3000	E10100	Rayong
Total Suspended Solids	mg/L	-	5	17	≤200	E10102	Rayong

Guideline : Environmental Impact Assessment Report of WHA Rayong 36 Industrial Estate

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

Key :

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

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TESTING
No.0042

Analysis Report

Work Order : RA2603215
Client : WHA Utilities and Power Public Company Limited
27 Moo 2, Tambon Phana Nakhon, Amphoe Nakhon Phathamni, Rayong,
Thailand, 21100
Project : WHA Rayong 36
Project Location : TOURFELLA MOTECH CO., LTD., J.13_WWT_WHARayong36_002_2568
Sample Number : RA2603215-001
Sample Date : Apr 07, 2026 10:00 AM
Sample Name : Wastewater
Sampling Site : TOURFELLA MOTECH CO., LTD.
Contract ID : WWT_WHARayong36_002_2568
Plot : J.13
Date of Analysis : Apr 07, 2026
Sampled by : Chaloemchai Bonrub (1-323-4-0065)
Condition of Sample : 1x 500mL Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet/ data, 1x 1L Plastic Bottle, refrigerated
Physical Properties : yellow, some odour, some solids, turbid

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	35.4	<200	E10044	Rayong
COD	mg/L	1.5	25	116	<400	E10046	Rayong
Oil & Grease	mg/L	-	3	5	≤10	E10048	Rayong
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.9	6-9	E10020	Rayong
Temperature *	°C	-	-	31.6	≤40	E10097	Rayong
Total Dissolved Solids at 180°C	mg/L	-	5	312	≤3000	E10100	Rayong
Total Suspended Solids	mg/L	-	5	18	≤200	E10102	Rayong

Guideline : Environmental Impact Assessment Report of WHA Rayong 36 Industrial Estate

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

Key :

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

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Analysis Report

Work Order : RA2603213
Client : WHA Utilities and Power Public Company Limited
27 Moo 2, Tambon Phana Nakhon, Amphoe Nakhon Phathamni, Rayong,
Thailand, 21100
Project : WHA Rayong 36
Project Location : TAWAY Electric Company Limited, J.08_WWT_WHARayong36_004_2567
Sample Number : RA2603213-001
Sample Date : Apr 07, 2026 10:35 AM
Sample Name : Wastewater
Sampling Site : TAWAY Electric Company Limited
Contract ID : WWT_WHARayong36_004_2567
Plot : J.09
Date of Analysis : Apr 07, 2026
Sampled by : Chaloemchai Bonrub (1-323-4-0065)
Condition of Sample : 1x 500mL Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet/ data, 1x 1L Plastic Bottle, refrigerated
Physical Properties : yellow, strong odour, some solids, turbid

Method	Testing Lab	Method Description
E10020	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
E10044	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (C)
E10046	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
E10048	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
E10097	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B
E10100	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C
E10102	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 : RA2603215
Client : WHA Utilities and Power Public Company Limited
27 Moo 2, Tambon Phana Nakhon, Amphoe Nakhon Phathamni, Rayong,
Thailand, 21100
Project : WHA Rayong 36
Project Location : TOURFELLA MOTECH CO., LTD., J.13_WWT_WHARayong36_002_2568
Sample Number : RA2603215-001
Sample Date : Apr 07, 2026 10:00 AM
Sample Name : Wastewater
Sampling Site : TOURFELLA MOTECH CO., LTD.
Contract ID : WWT_WHARayong36_002_2568
Plot : J.13
Date of Analysis : Apr 07, 2026
Sampled by : Chaloemchai Bonrub (1-323-4-0065)
Condition of Sample : 1x 500mL Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet/ data, 1x 1L Plastic Bottle, refrigerated
Physical Properties : yellow, some odour, some solids, turbid

Method	Testing Lab	Method Description
E10020	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
E10044	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (C)
E10046	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
E10048	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
E10097	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B
E10100	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C
E10102	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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TESTING
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Analysis Report

Work Order : RA2803211
Client : WHA Utilities and Power Public Company Limited
27 Moo 2, Tambon Phana Nakhon, Amphoe Nakhon Phathamni, Rayong,
Thailand, 21100
Project : WHA Rayong 36
Project Location : QUANTUM SPT COMPANY LIMITED_131_WWT_WHARayong36_005_2567

Sample Number : RA2803211-001
Sampled Date : Apr 07, 2026 10:50 AM
Sample Name : Wastewater
Sampling Site : QUANTUM SPT COMPANY LIMITED
Contract ID : WWT_WHARayong36_005_2567
Plot : J.31
Date of Analysis : Apr 07, 2026
Sampled by : Chalokemchai Bonrub (1-323-4-0065)
Condition of Sample : 1x 500mL Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet/data, 1x 1L Plastic Bottle, refrigerated
Physical Properties : yellow, strong odour, some solids, turbid

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	52.5	<200	E10044	Rayong
COD	mg/L	1.5	25	131	<400	E10046	Rayong
Oil & Grease	mg/L	-	3	5	≤10	E10048	Rayong
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.3	6-9	E10020	Rayong
Temperature *	°C	-	-	33.0	≤40	E10097	Rayong
Total Dissolved Solids at 180°C	mg/L	-	5	284	≤3000	E10100	Rayong
Total Suspended Solids	mg/L	-	5	12	≤200	E10102	Rayong

Guideline : Environmental Impact Assessment Report of WHA Rayong 36 Industrial Estate

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

Key :

- LOD : Limit of Detection
- * : Lower than LOQ (Limit of Quantification) / LOR (Limit of Reporting)
- Analyte(s) marked * are not included in scope of Accreditation ISO/IEC 17025

Signatories

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TESTING
No.0042

Analysis Report

Work Order : RA2803212
Client : WHA Utilities and Power Public Company Limited
27 Moo 2, Tambon Phana Nakhon, Amphoe Nakhon Phathamni, Rayong,
Thailand, 21100
Project : WHA Rayong 36
Project Location : T.C. PHARMACEUTICAL INDUSTRIES CO., LTD_116_WWT_WHARayong36_002_2567

Sample Number : RA2803212-001
Sampled Date : Apr 07, 2026 09:55 AM
Sample Name : Wastewater
Sampling Site : T.C. PHARMACEUTICAL INDUSTRIES CO., LTD.
Contract ID : WWT_WHARayong36_002_2567
Plot : J.16
Date of Analysis : Apr 07, 2026
Sampled by : Chalokemchai Bonrub (1-323-4-0065)
Condition of Sample : 1x 500mL Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet/data, 1x 1L Plastic Bottle, refrigerated
Physical Properties : yellow, some odour, some solids, no turbid

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	<2.0	<200	E10044	Rayong
COD	mg/L	1.5	25	<25	<400	E10046	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	E10048	Rayong
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	8.0	6-9	E10020	Rayong
Temperature *	°C	-	-	32.0	≤40	E10097	Rayong
Total Dissolved Solids at 180°C	mg/L	-	5	214	≤3000	E10100	Rayong
Total Suspended Solids	mg/L	-	5	<5	≤200	E10102	Rayong

Guideline : Environmental Impact Assessment Report of WHA Rayong 36 Industrial Estate

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

Key :

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Signatories

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TESTING
No.0042

Analysis Report

Work Order : RA2803211
Client : WHA Utilities and Power Public Company Limited
27 Moo 2, Tambon Phana Nakhon, Amphoe Nakhon Phathamni, Rayong,
Thailand, 21100
Project : WHA Rayong 36
Project Location : QUANTUM SPT COMPANY LIMITED_131_WWT_WHARayong36_005_2567

Sample Number : RA2803211-001
Sampled Date : Apr 07, 2026 10:50 AM
Sample Name : Wastewater
Sampling Site : QUANTUM SPT COMPANY LIMITED
Contract ID : WWT_WHARayong36_005_2567
Plot : J.31
Date of Analysis : Apr 07, 2026
Sampled by : Chalokemchai Bonrub (1-323-4-0065)
Condition of Sample : 1x 500mL Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet/data, 1x 1L Plastic Bottle, refrigerated
Physical Properties : yellow, strong odour, some solids, turbid

Method	Testing Lab	Method Descriptions
E10020	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
E10044	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (C)
E10046	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
E10048	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
E10097	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B
E10100	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C
E10102	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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TESTING
No.0042

Analysis Report

Work Order : RA2803212
Client : WHA Utilities and Power Public Company Limited
27 Moo 2, Tambon Phana Nakhon, Amphoe Nakhon Phathamni, Rayong,
Thailand, 21100
Project : WHA Rayong 36
Project Location : T.C. PHARMACEUTICAL INDUSTRIES CO., LTD_116_WWT_WHARayong36_002_2567

Sample Number : RA2803212-001
Sampled Date : Apr 07, 2026 09:55 AM
Sample Name : Wastewater
Sampling Site : T.C. PHARMACEUTICAL INDUSTRIES CO., LTD.
Contract ID : WWT_WHARayong36_002_2567
Plot : J.16
Date of Analysis : Apr 07, 2026
Sampled by : Chalokemchai Bonrub (1-323-4-0065)
Condition of Sample : 1x 500mL Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet/data, 1x 1L Plastic Bottle, refrigerated
Physical Properties : yellow, some odour, some solids, no turbid

Method	Testing Lab	Method Descriptions
E10020	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
E10044	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (C)
E10046	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
E10048	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
E10097	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B
E10100	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C
E10102	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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No.0042

Analysis Report

Work Order : RA2803214
Client : WHA Utilities and Power Public Company Limited
27 Moo 2, Tambon Phana Nakhon, Amphoe Nakhon Phathamni, Rayong,
Thailand, 21100
Project : WHA Rayong 36
Project Location : THAIYA CORPORATION LIMITED, J.05, WWT_WHARayong36_003_2567

Sample Number : RA2803214-001
Sample Date : Apr 07, 2026 09:30 AM
Sample Name : Wastewater
Sampling Site : THAIYA CORPORATION LIMITED
Contract ID : WWT_WHARayong36_003_2567
Plot : J.05
Date of Analysis : Apr 07, 2026
Sampled by : Chaloemchai Bonrub (1-323-4-0065)
Condition of Sample : 1x 500mL Plastic Bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet/ data, 1x 1L Plastic Bottle, refrigerated
Physical Properties : yellow, some odour, some solids, turbid

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	156	<200	E10044	Rayong
COD	mg/L	1.5	25	363	<400	E10046	Rayong
Oil & Grease	mg/L	-	3	8	≤10	E10048	Rayong
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.8	6-9	E10020	Rayong
Temperature *	°C	-	-	32.1	≤40	E10097	Rayong
Total Dissolved Solids at 180°C	mg/L	-	5	532	<3000	E10100	Rayong
Total Suspended Solids	mg/L	-	5	44	<200	E10102	Rayong

Guideline : Environmental Impact Assessment Report of WHA Rayong 36 Industrial Estate

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

Key :

- LOD : Limit of Detection
- * : Lower than LOQ (Limit of Quantification) / LOR (Limit of Reporting)
- Analyte(s) marked * are not included in scope of Accreditation ISO/IEC 17025

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Analysis Report

Work Order : RA2803210
Client : WHA Utilities and Power Public Company Limited
27 Moo 2, Tambon Phana Nakhon, Amphoe Nakhon Phathamni, Rayong,
Thailand, 21100
Project : WHA Rayong 36
Project Location : QUING INDUSTRY (THAILAND) CO., LTD., J.10, WWT_WHARayong36_001_2568

Sample Number : RA2803210-001
Sample Date : Apr 07, 2026 10:30 AM
Sample Name : Wastewater
Sampling Site : QUING INDUSTRY (THAILAND) CO., LTD.
Contract ID : WWT_WHARayong36_001_2568
Plot : J.10
Date of Analysis : Apr 07, 2026
Sampled by : Chaloemchai Bonrub (1-323-4-0065)
Condition of Sample : 1x 500mL Plastic Bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet/ data, 1x 1L Plastic Bottle, refrigerated
Physical Properties : yellow, some odour, some solids, turbid

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	82.5	<200	E10044	Rayong
COD	mg/L	1.5	25	199	<400	E10046	Rayong
Oil & Grease	mg/L	-	3	8	≤10	E10048	Rayong
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.9	6-9	E10020	Rayong
Temperature *	°C	-	-	33.0	≤40	E10097	Rayong
Total Dissolved Solids at 180°C	mg/L	-	5	392	<3000	E10100	Rayong
Total Suspended Solids	mg/L	-	5	12	<200	E10102	Rayong

Guideline : Environmental Impact Assessment Report of WHA Rayong 36 Industrial Estate

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

Key :

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- * : Lower than LOQ (Limit of Quantification) / LOR (Limit of Reporting)
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TESTING
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Analysis Report

Work Order : RA2803214
Client : WHA Utilities and Power Public Company Limited
27 Moo 2, Tambon Phana Nakhon, Amphoe Nakhon Phathamni, Rayong,
Thailand, 21100
Project : WHA Rayong 36
Project Location : THAIYA CORPORATION LIMITED, J.05, WWT_WHARayong36_003_2567

Sample Number : RA2803214-001
Sample Date : Apr 07, 2026 09:30 AM
Sample Name : Wastewater
Sampling Site : THAIYA CORPORATION LIMITED
Contract ID : WWT_WHARayong36_003_2567
Plot : J.05
Date of Analysis : Apr 07, 2026
Sampled by : Chaloemchai Bonrub (1-323-4-0065)
Condition of Sample : 1x 500mL Plastic Bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet/ data, 1x 1L Plastic Bottle, refrigerated
Physical Properties : yellow, some odour, some solids, turbid

Method	Testing Lab	Method Descriptions
E10020	Rayong	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
E10044	Rayong	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (C)
E10046	Rayong	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
E10048	Rayong	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
E10097	Rayong	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 2550 B
E10100	Rayong	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 2540 C
E10102	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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TESTING
No.0042

Analysis Report

Work Order : RA2803210
Client : WHA Utilities and Power Public Company Limited
27 Moo 2, Tambon Phana Nakhon, Amphoe Nakhon Phathamni, Rayong,
Thailand, 21100
Project : WHA Rayong 36
Project Location : QUING INDUSTRY (THAILAND) CO., LTD., J.10, WWT_WHARayong36_001_2568

Sample Number : RA2803210-001
Sample Date : Apr 07, 2026 10:30 AM
Sample Name : Wastewater
Sampling Site : QUING INDUSTRY (THAILAND) CO., LTD.
Contract ID : WWT_WHARayong36_001_2568
Plot : J.10
Date of Analysis : Apr 07, 2026
Sampled by : Chaloemchai Bonrub (1-323-4-0065)
Condition of Sample : 1x 500mL Plastic Bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet/ data, 1x 1L Plastic Bottle, refrigerated
Physical Properties : yellow, some odour, some solids, turbid

Method	Testing Lab	Method Descriptions
E10020	Rayong	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
E10044	Rayong	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (C)
E10046	Rayong	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
E10048	Rayong	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
E10097	Rayong	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 2550 B
E10100	Rayong	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 2540 C
E10102	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

Work Order : RA2603206
Client : WHA Utilities and Power Public Company Limited
27 Moo 2, Tambon Phana Nakhon, Amphoe Nakhon Phathamni, Rayong,
Thailand, 21100
Project : WHA Rayong 36
Project Location : BYD AUTO (THAILAND) CO.,LTD.,J29_WWT_WHARayong36_006_2567

Sample Number : RA2603206-001
Sampled Date : Apr 07, 2026 01:45 PM
Sample Name : Wastewater : Point No.2
Sampling Site : BYD AUTO (THAILAND) CO.,LTD.
Contract ID : WWT_WHARayong36_006_2567
Plot : J29
Date of Analysis : Apr 07, 2026
Sampled by : Chalokemchai Bonrub (1-323-4-0065)
Condition of Sample : 1x 500mL Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet/data, 1x 1L Plastic Bottle, refrigerated
Physical Properties : yellow, some odour, some solids, turbid

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	43.8	<200	E10044	Rayong
COD	mg/L	1.5	25	170	<400	E10046	Rayong
Oil & Grease	mg/L	-	3	5	≤10	E10048	Rayong
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.5	6-9	E10020	Rayong
Temperature *	°C	-	-	31.2	≤40	E10097	Rayong
Total Dissolved Solids at 180°C	mg/L	-	5	400	≤3000	E10100	Rayong
Total Suspended Solids	mg/L	-	5	24	≤200	E10102	Rayong

Guideline : Environmental Impact Assessment Report of WHA Rayong 36 Industrial Estate

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

Key :

- LOD : Limit of Detection
- * : Lower than LOQ (Limit of Quantification) / LOR (Limit of Reporting)
- Analyte(s) marked * are not included in scope of Accreditation ISO/IEC 17025

Signatories

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Analysis Report

Work Order : RA2603207
Client : WHA Utilities and Power Public Company Limited
27 Moo 2, Tambon Phana Nakhon, Amphoe Nakhon Phathamni, Rayong,
Thailand, 21100
Project : WHA Rayong 36
Project Location : BYD AUTO (THAILAND) CO.,LTD.,J32_WWT_WHARayong36_011_2567

Sample Number : RA2603207-001
Sampled Date : Apr 07, 2026 02:00 PM
Sample Name : Wastewater : Point No.1
Sampling Site : BYD AUTO (THAILAND) CO.,LTD.
Contract ID : WWT_WHARayong36_011_2567
Plot : J32
Date of Analysis : Apr 07, 2026
Sampled by : Chalokemchai Bonrub (1-323-4-0065)
Condition of Sample : 1x 500mL Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet/data, 1x 1L Plastic Bottle, refrigerated
Physical Properties : yellow, some odour, some solids, turbid

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	87.9	<200	E10044	Rayong
COD	mg/L	1.5	25	190	<400	E10046	Rayong
Oil & Grease	mg/L	-	3	7	≤10	E10048	Rayong
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.8	6-9	E10020	Rayong
Temperature *	°C	-	-	32.9	≤40	E10097	Rayong
Total Dissolved Solids at 180°C	mg/L	-	5	404	≤3000	E10100	Rayong
Total Suspended Solids	mg/L	-	5	13	≤200	E10102	Rayong

Guideline : Environmental Impact Assessment Report of WHA Rayong 36 Industrial Estate

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

Key :

- LOD : Limit of Detection
- * : Lower than LOQ (Limit of Quantification) / LOR (Limit of Reporting)
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Analysis Report

Work Order : RA2603206
Client : WHA Utilities and Power Public Company Limited
27 Moo 2, Tambon Phana Nakhon, Amphoe Nakhon Phathamni, Rayong,
Thailand, 21100
Project : WHA Rayong 36
Project Location : BYD AUTO (THAILAND) CO.,LTD.,J29_WWT_WHARayong36_006_2567

Sample Number : RA2603206-001
Sampled Date : Apr 07, 2026 01:45 PM
Sample Name : Wastewater : Point No.2
Sampling Site : BYD AUTO (THAILAND) CO.,LTD.
Contract ID : WWT_WHARayong36_006_2567
Plot : J29
Date of Analysis : Apr 07, 2026
Sampled by : Chalokemchai Bonrub (1-323-4-0065)
Condition of Sample : 1x 500mL Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet/data, 1x 1L Plastic Bottle, refrigerated
Physical Properties : yellow, some odour, some solids, turbid

Method	Testing Lab	Method Descriptions
E10020	Rayong	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
E10044	Rayong	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (C)
E10046	Rayong	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
E10048	Rayong	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
E10097	Rayong	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 2550 B
E10100	Rayong	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 2540 C
E10102	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

Work Order : RA2603207
Client : WHA Utilities and Power Public Company Limited
27 Moo 2, Tambon Phana Nakhon, Amphoe Nakhon Phathamni, Rayong,
Thailand, 21100
Project : WHA Rayong 36
Project Location : BYD AUTO (THAILAND) CO.,LTD.,J32_WWT_WHARayong36_011_2567

Sample Number : RA2603207-001
Sampled Date : Apr 07, 2026 02:00 PM
Sample Name : Wastewater : Point No.1
Sampling Site : BYD AUTO (THAILAND) CO.,LTD.
Contract ID : WWT_WHARayong36_011_2567
Plot : J32
Date of Analysis : Apr 07, 2026
Sampled by : Chalokemchai Bonrub (1-323-4-0065)
Condition of Sample : 1x 500mL Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet/data, 1x 1L Plastic Bottle, refrigerated
Physical Properties : yellow, some odour, some solids, turbid

Method	Testing Lab	Method Descriptions
E10020	Rayong	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
E10044	Rayong	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (C)
E10046	Rayong	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
E10048	Rayong	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
E10097	Rayong	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 2550 B
E10100	Rayong	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 2540 C
E10102	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

Work Order	RA2803204	Date Received	Apr 07, 2026
Client	WHA Utilities and Power Public Company Limited 27 Moo 2, Tambon Phana Nakhon, Amphoe Nakhon Phathamni, Rayong, Thailand, 21100	Date Reported	Apr 17, 2026
Project	WHA Rayong 36	Report Number	RA2803204-AA
Project Location	BYD AUTO (THAILAND) CO.,LTD.,J19D_WWT_WHARayong36_008_2567		
Sample Number	RA2803204-001		
Sampled Date	Apr 07, 2026 02:40 PM		
Sample Name	Wastewater : Point No.6		
Sampling Site	BYD AUTO (THAILAND) CO.,LTD.		
Contract ID	WWT_WHARayong36_008_2567		
Pilot	J19D		
Date of Analysis	Apr 07, 2026		
Sampled by	Chaloemchai Bonrub (1-323-4-0065)		
Condition of Sample	1x 500mL Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet/data, 1x 1L Plastic Bottle, refrigerated		
Physical Properties	yellow, some odour, some solids, no turbid		

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	11.1	<200	E10044	Rayong
COD	mg/L	1.5	25	42	<400	E10046	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	E10048	Rayong
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.4	6-9	E10020	Rayong
Temperature *	°C	-	-	32.4	≤40	E10097	Rayong
Total Dissolved Solids at 180°C	mg/L	-	5	588	≤3000	E10100	Rayong
Total Suspended Solids	mg/L	-	5	11	<200	E10102	Rayong

Guideline: Environmental Impact Assessment Report of WHA Rayong 36 Industrial Estate

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

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

Signatories

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TESTING
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Analysis Report

Work Order	RA2803205	Date Received	Apr 07, 2026
Client	WHA Utilities and Power Public Company Limited 27 Moo 2, Tambon Phana Nakhon, Amphoe Nakhon Phathamni, Rayong, Thailand, 21100	Date Reported	Apr 17, 2026
Project	WHA Rayong 36	Report Number	RA2803205-AA
Project Location	BYD AUTO (THAILAND) CO.,LTD.,J28B_WWT_WHARayong36_010_2567		
Sample Number	RA2803205-001		
Sampled Date	Apr 07, 2026 02:10 PM		
Sample Name	Wastewater : Point No.3		
Sampling Site	BYD AUTO (THAILAND) CO.,LTD.		
Contract ID	WWT_WHARayong36_010_2567		
Pilot	J28B		
Date of Analysis	Apr 07, 2026		
Sampled by	Chaloemchai Bonrub (1-323-4-0065)		
Condition of Sample	1x 500mL Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet/data, 1x 1L Plastic Bottle, refrigerated		
Physical Properties	yellow, strong odour, some solids, turbid		

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	48.1	<200	E10044	Rayong
COD	mg/L	1.5	25	121	<400	E10046	Rayong
Oil & Grease	mg/L	-	3	4	≤10	E10048	Rayong
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.8	6-9	E10020	Rayong
Temperature *	°C	-	-	33.2	≤40	E10097	Rayong
Total Dissolved Solids at 180°C	mg/L	-	5	360	≤3000	E10100	Rayong
Total Suspended Solids	mg/L	-	5	17	<200	E10102	Rayong

Guideline: Environmental Impact Assessment Report of WHA Rayong 36 Industrial Estate

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

- Key:
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Analysis Report

Work Order	RA2803204	Date Received	Apr 07, 2026
Client	WHA Utilities and Power Public Company Limited 27 Moo 2, Tambon Phana Nakhon, Amphoe Nakhon Phathamni, Rayong, Thailand, 21100	Date Reported	Apr 17, 2026
Project	WHA Rayong 36	Report Number	RA2803204-AA
Project Location	BYD AUTO (THAILAND) CO.,LTD.,J19D_WWT_WHARayong36_008_2567		
Sample Number	RA2803204-001		
Sampled Date	Apr 07, 2026 02:40 PM		
Sample Name	Wastewater : Point No.6		
Sampling Site	BYD AUTO (THAILAND) CO.,LTD.		
Contract ID	WWT_WHARayong36_008_2567		
Pilot	J19D		
Date of Analysis	Apr 07, 2026		
Sampled by	Chaloemchai Bonrub (1-323-4-0065)		
Condition of Sample	1x 500mL Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet/data, 1x 1L Plastic Bottle, refrigerated		
Physical Properties	yellow, some odour, some solids, no turbid		

Method	Testing Lab	Method Descriptions
E10020	Rayong	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
E10044	Rayong	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (C)
E10046	Rayong	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
E10048	Rayong	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
E10097	Rayong	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 2550 B
E10100	Rayong	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 2540 C
E10102	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	RA2803205	Date Received	Apr 07, 2026
Client	WHA Utilities and Power Public Company Limited 27 Moo 2, Tambon Phana Nakhon, Amphoe Nakhon Phathamni, Rayong, Thailand, 21100	Date Reported	Apr 17, 2026
Project	WHA Rayong 36	Report Number	RA2803205-AA
Project Location	BYD AUTO (THAILAND) CO.,LTD.,J28B_WWT_WHARayong36_010_2567		
Sample Number	RA2803205-001		
Sampled Date	Apr 07, 2026 02:10 PM		
Sample Name	Wastewater : Point No.3		
Sampling Site	BYD AUTO (THAILAND) CO.,LTD.		
Contract ID	WWT_WHARayong36_010_2567		
Pilot	J28B		
Date of Analysis	Apr 07, 2026		
Sampled by	Chaloemchai Bonrub (1-323-4-0065)		
Condition of Sample	1x 500mL Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet/data, 1x 1L Plastic Bottle, refrigerated		
Physical Properties	yellow, strong odour, some solids, turbid		

Method	Testing Lab	Method Descriptions
E10020	Rayong	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
E10044	Rayong	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (C)
E10046	Rayong	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
E10048	Rayong	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
E10097	Rayong	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 2550 B
E10100	Rayong	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 2540 C
E10102	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 : RA2603203
Client : WHA Utilities and Power Public Company Limited
27 Moo 2, Tambon Phana Nakhon, Amphoe Nakhon Phathamni, Rayong,
Thailand, 21100
Project : WHA Rayong 36
Project Location : BYD AUTO (THAILAND) CO.,LTD.,J19D,_WWT_WHARayong36_007_2567

Sample Number : RA2603203-001
Sample Date : Apr 07, 2026 02:35 PM
Sample Name : Wastewater - Point No.5
Sampling Site : BYD AUTO (THAILAND) CO.,LTD.
Contract ID : WWT_WHARayong36_007_2567
Plot : J19D
Date of Analysis : Apr 07, 2026
Sampled by : Chalokemchai Bonrub (1-323-4-0065)
Condition of Sample : 1x 500mL Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet/data, 1x 1L Plastic Bottle, refrigerated
Physical Properties : yellow, strong odour, some solids, turbid

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	33.6	<200	E10044	Rayong
COD	mg/L	1.5	25	133	<400	E10046	Rayong
Oil & Grease	mg/L	-	3	6	≤10	E10048	Rayong
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.8	6-9	E10020	Rayong
Temperature *	°C	-	-	33.3	≤40	E10097	Rayong
Total Dissolved Solids at 180°C	mg/L	-	5	356	≤3000	E10100	Rayong
Total Suspended Solids	mg/L	-	5	35	≤200	E10102	Rayong

Guideline : Environmental Impact Assessment Report of WHA Rayong 36 Industrial Estate

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

Key :

- LOD : Limit of Detection
- * : Lower than LOQ (Limit of Quantification) / LOR (Limit of Reporting)
- Analyte(s) marked * are not included in scope of Accreditation ISO/IEC 17025

Signatories

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TESTING
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Analysis Report

Work Order : RA2603206
Client : WHA Utilities and Power Public Company Limited
27 Moo 2, Tambon Phana Nakhon, Amphoe Nakhon Phathamni, Rayong,
Thailand, 21100
Project : WHA Rayong 36
Project Location : CHOH INDUSTRIAL (THAILAND) COMPANY LIMITED,J21,_WWT_WHARayong36_012_2567

Sample Number : RA2603206-001
Sample Date : Apr 07, 2026 09:20 AM
Sample Name : Wastewater
Sampling Site : CHOH INDUSTRIAL (THAILAND) COMPANY LIMITED
Contract ID : WWT_WHARayong36_012_2567
Plot : J21
Date of Analysis : Apr 07, 2026
Sampled by : Chalokemchai Bonrub (1-323-4-0065)
Condition of Sample : 1x 500mL Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet/data, 1x 1L Plastic Bottle, refrigerated
Physical Properties : yellow, strong odour, some solids, turbid

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	60.0	<200	E10044	Rayong
COD	mg/L	1.5	25	297	<400	E10046	Rayong
Oil & Grease	mg/L	-	3	6	≤10	E10048	Rayong
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	8.1	6-9	E10020	Rayong
Temperature *	°C	-	-	33.6	≤40	E10097	Rayong
Total Dissolved Solids at 180°C	mg/L	-	5	516	≤3000	E10100	Rayong
Total Suspended Solids	mg/L	-	5	29	≤200	E10102	Rayong

Guideline : Environmental Impact Assessment Report of WHA Rayong 36 Industrial Estate

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

Key :

- LOD : Limit of Detection
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TESTING
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Analysis Report

Work Order : RA2603203
Client : WHA Utilities and Power Public Company Limited
27 Moo 2, Tambon Phana Nakhon, Amphoe Nakhon Phathamni, Rayong,
Thailand, 21100
Project : WHA Rayong 36
Project Location : BYD AUTO (THAILAND) CO.,LTD.,J19D,_WWT_WHARayong36_007_2567

Sample Number : RA2603203-001
Sample Date : Apr 07, 2026 02:35 PM
Sample Name : Wastewater - Point No.5
Sampling Site : BYD AUTO (THAILAND) CO.,LTD.
Contract ID : WWT_WHARayong36_007_2567
Plot : J19D
Date of Analysis : Apr 07, 2026
Sampled by : Chalokemchai Bonrub (1-323-4-0065)
Condition of Sample : 1x 500mL Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet/data, 1x 1L Plastic Bottle, refrigerated
Physical Properties : yellow, strong odour, some solids, turbid

Method	Testing Lab	Method Descriptions
E10020	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
E10044	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (C)
E10046	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
E10048	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
E10097	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B
E10100	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C
E10102	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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TESTING
No.0042

Analysis Report

Work Order : RA2603206
Client : WHA Utilities and Power Public Company Limited
27 Moo 2, Tambon Phana Nakhon, Amphoe Nakhon Phathamni, Rayong,
Thailand, 21100
Project : WHA Rayong 36
Project Location : CHOH INDUSTRIAL (THAILAND) COMPANY LIMITED,J21,_WWT_WHARayong36_012_2567

Sample Number : RA2603206-001
Sample Date : Apr 07, 2026 09:20 AM
Sample Name : Wastewater
Sampling Site : CHOH INDUSTRIAL (THAILAND) COMPANY LIMITED
Contract ID : WWT_WHARayong36_012_2567
Plot : J21
Date of Analysis : Apr 07, 2026
Sampled by : Chalokemchai Bonrub (1-323-4-0065)
Condition of Sample : 1x 500mL Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet/data, 1x 1L Plastic Bottle, refrigerated
Physical Properties : yellow, strong odour, some solids, turbid

Method	Testing Lab	Method Descriptions
E10020	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
E10044	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (C)
E10046	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
E10048	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
E10097	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B
E10100	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C
E10102	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 : RA2602132
Client : WHA Utilities and Power Public Company Limited
27 Moo 2, Tambon Phana Nakhon, Amphoe Nakhon Phathamni, Rayong,
Thailand, 21100
Project : WHA Rayong 36
Project Location : TAWAY Electric Company Limited_J108_WWT_WHARayong36_004_2567

Sample Number : RA2602132-001
Sampled Date : Mar 10, 2026 10:35 AM
Sample Name : Wastewater
Sampling Site : TAWAY Electric Company Limited
Contract ID : WWT_WHARayong36_004_2567
Plot : J.09
Date of Analysis : Mar 10, 2026
Sampled by : Wanayoo Chiraphakae (1-323-4-0020)
Condition of Sample : 1x 500mL Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet/data, 1x 1L Plastic Bottle, refrigerated
Physical Properties : yellow, strong odour, some solids, turbid

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	13.8	<200	E10044	Rayong
COD	mg/L	1.5	25	55	<400	E10046	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	E10048	Rayong
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	8.0	6-9	E10020	Rayong
Temperature *	°C	-	-	30.7	≤40	E10007	Rayong
Total Dissolved Solids at 180°C	mg/L	-	5	278	≤3000	E10100	Rayong
Total Suspended Solids	mg/L	-	5	5	≤200	E10102	Rayong

Guideline : Environmental Impact Assessment Report of WHA Rayong 36 Industrial Estate

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

Key :

- LOD : Limit of Detection
- * : Lower than LOQ (Limit of Quantification) / LOR (Limit of Reporting)
- Analyte(s) marked * are not included in scope of Accreditation ISO/IEC 17025

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Analysis Report

Work Order : RA2603202
Client : WHA Utilities and Power Public Company Limited
27 Moo 2, Tambon Phana Nakhon, Amphoe Nakhon Phathamni, Rayong,
Thailand, 21100
Project : WHA Rayong 36
Project Location : BYD AUTO (THAILAND) CO., LTD._J19C_WWT_WHARayong36_009_2567

Sample Number : RA2603202-001
Sampled Date : Apr 07, 2026 02:25 PM
Sample Name : Wastewater : Point No.4
Sampling Site : BYD AUTO (THAILAND) CO., LTD.
Contract ID : WWT_WHARayong36_009_2567
Plot : J19C
Date of Analysis : Apr 07, 2026
Sampled by : Chakornchai Bonrub (1-323-4-0065)
Condition of Sample : 1x 500mL Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet/data, 1x 1L Plastic Bottle, refrigerated
Physical Properties : yellow, some odour, some solids, turbid

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	22.5	<200	E10044	Rayong
COD	mg/L	1.5	25	88	<400	E10046	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	E10048	Rayong
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.9	6-9	E10020	Rayong
Temperature *	°C	-	-	34.0	≤40	E10007	Rayong
Total Dissolved Solids at 180°C	mg/L	-	5	328	≤3000	E10100	Rayong
Total Suspended Solids	mg/L	-	5	28	≤200	E10102	Rayong

Guideline : Environmental Impact Assessment Report of WHA Rayong 36 Industrial Estate

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

Key :

- LOD : Limit of Detection
- * : Lower than LOQ (Limit of Quantification) / LOR (Limit of Reporting)
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Analysis Report

Work Order : RA2602132
Client : WHA Utilities and Power Public Company Limited
27 Moo 2, Tambon Phana Nakhon, Amphoe Nakhon Phathamni, Rayong,
Thailand, 21100
Project : WHA Rayong 36
Project Location : TAWAY Electric Company Limited_J108_WWT_WHARayong36_004_2567

Sample Number : RA2602132-001
Sampled Date : Mar 10, 2026 10:35 AM
Sample Name : Wastewater
Sampling Site : TAWAY Electric Company Limited
Contract ID : WWT_WHARayong36_004_2567
Plot : J.09
Date of Analysis : Mar 10, 2026
Sampled by : Wanayoo Chiraphakae (1-323-4-0020)
Condition of Sample : 1x 500mL Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet/data, 1x 1L Plastic Bottle, refrigerated
Physical Properties : yellow, strong odour, some solids, turbid

Method	Testing Lab	Method Descriptions
E10020	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
E10044	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (C)
E10046	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
E10048	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
E10007	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B
E10100	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C
E10102	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 : RA2603202
Client : WHA Utilities and Power Public Company Limited
27 Moo 2, Tambon Phana Nakhon, Amphoe Nakhon Phathamni, Rayong,
Thailand, 21100
Project : WHA Rayong 36
Project Location : BYD AUTO (THAILAND) CO., LTD._J19C_WWT_WHARayong36_009_2567

Sample Number : RA2603202-001
Sampled Date : Apr 07, 2026 02:25 PM
Sample Name : Wastewater : Point No.4
Sampling Site : BYD AUTO (THAILAND) CO., LTD.
Contract ID : WWT_WHARayong36_009_2567
Plot : J19C
Date of Analysis : Apr 07, 2026
Sampled by : Chakornchai Bonrub (1-323-4-0065)
Condition of Sample : 1x 500mL Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet/data, 1x 1L Plastic Bottle, refrigerated
Physical Properties : yellow, some odour, some solids, turbid

Method	Testing Lab	Method Descriptions
E10020	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
E10044	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (C)
E10046	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
E10048	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
E10007	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B
E10100	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C
E10102	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 : RA3802130
Client : WHA Utilities and Power Public Company Limited
27 Moo 2, Tambon Phana Nakhon, Amphoe Nakhon Phatham, Rayong,
Thailand, 21100
Project : WHA Rayong 36
Project Location : QUANTUM SPT COMPANY LIMITED_131_WWT_WHARayong36_005_2567

Sample Number : RA3802130-001
Sampled Date : Mar 10, 2026 10:50 AM
Sample Name : Wastewater
Sampling Site : QUANTUM SPT COMPANY LIMITED
Contract ID : WWT_WHARayong36_005_2567
Plot : J.31
Date of Analysis : Mar 10, 2026
Sampled by : Wanayoo Chirphakae (1-323-4-0020)
Condition of Sample : 1x 500mL Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet/data, 1x 1L Plastic Bottle, refrigerated
Physical Properties : yellow, strong odour, some solids, turbid

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	57.5	<200	E10044	Rayong
COD	mg/L	1.5	25	164	<400	E10046	Rayong
Oil & Grease	mg/L	-	3	7	<10	E10048	Rayong
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.5	6-9	E10020	Rayong
Temperature *	°C	-	-	31.5	<40	E10097	Rayong
Total Dissolved Solids at 180°C	mg/L	-	5	312	<3000	E10100	Rayong
Total Suspended Solids	mg/L	-	5	14	<200	E10102	Rayong

Guideline : Environmental Impact Assessment Report of WHA Rayong 36 Industrial Estate

Comment : Sampling is 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

Work Order : RA3802131
Client : WHA Utilities and Power Public Company Limited
27 Moo 2, Tambon Phana Nakhon, Amphoe Nakhon Phatham, Rayong,
Thailand, 21100
Project : WHA Rayong 36
Project Location : T.C. PHARMACEUTICAL INDUSTRIES CO., LTD_116_WWT_WHARayong36_002_2567

Sample Number : RA3802131-001
Sampled Date : Mar 10, 2026 09:40 AM
Sample Name : Wastewater
Sampling Site : T.C. PHARMACEUTICAL INDUSTRIES CO., LTD.
Contract ID : WWT_WHARayong36_002_2567
Plot : J.16
Date of Analysis : Mar 10, 2026
Sampled by : Wanayoo Chirphakae (1-323-4-0020)
Condition of Sample : 1x 500mL Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet/data, 1x 1L Plastic Bottle, refrigerated
Physical Properties : yellow, some odour, no solids, no turbid

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	<2.0	<200	E10044	Rayong
COD	mg/L	1.5	25	<25	<400	E10046	Rayong
Oil & Grease	mg/L	-	3	<3	<10	E10048	Rayong
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	8.0	6-9	E10020	Rayong
Temperature *	°C	-	-	30.5	<40	E10097	Rayong
Total Dissolved Solids at 180°C	mg/L	-	5	272	<3000	E10100	Rayong
Total Suspended Solids	mg/L	-	5	<5	<200	E10102	Rayong

Guideline : Environmental Impact Assessment Report of WHA Rayong 36 Industrial Estate

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

Key :

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Analysis Report

Work Order : RA3802130
Client : WHA Utilities and Power Public Company Limited
27 Moo 2, Tambon Phana Nakhon, Amphoe Nakhon Phatham, Rayong,
Thailand, 21100
Project : WHA Rayong 36
Project Location : QUANTUM SPT COMPANY LIMITED_131_WWT_WHARayong36_005_2567

Sample Number : RA3802130-001
Sampled Date : Mar 10, 2026 10:50 AM
Sample Name : Wastewater
Sampling Site : QUANTUM SPT COMPANY LIMITED
Contract ID : WWT_WHARayong36_005_2567
Plot : J.31
Date of Analysis : Mar 10, 2026
Sampled by : Wanayoo Chirphakae (1-323-4-0020)
Condition of Sample : 1x 500mL Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet/data, 1x 1L Plastic Bottle, refrigerated
Physical Properties : yellow, strong odour, some solids, turbid

Method	Testing Lab	Method Descriptions
E10020	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
E10044	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (C)
E10046	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
E10048	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
E10097	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B
E10100	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C
E10102	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 : RA3802131
Client : WHA Utilities and Power Public Company Limited
27 Moo 2, Tambon Phana Nakhon, Amphoe Nakhon Phatham, Rayong,
Thailand, 21100
Project : WHA Rayong 36
Project Location : T.C. PHARMACEUTICAL INDUSTRIES CO., LTD_116_WWT_WHARayong36_002_2567

Sample Number : RA3802131-001
Sampled Date : Mar 10, 2026 09:40 AM
Sample Name : Wastewater
Sampling Site : T.C. PHARMACEUTICAL INDUSTRIES CO., LTD.
Contract ID : WWT_WHARayong36_002_2567
Plot : J.16
Date of Analysis : Mar 10, 2026
Sampled by : Wanayoo Chirphakae (1-323-4-0020)
Condition of Sample : 1x 500mL Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet/data, 1x 1L Plastic Bottle, refrigerated
Physical Properties : yellow, some odour, no solids, no turbid

Method	Testing Lab	Method Descriptions
E10020	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
E10044	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (C)
E10046	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
E10048	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
E10097	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B
E10100	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C
E10102	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 : RA2802129
Client : WHA Utilities and Power Public Company Limited
27 Moo 2, Tambon Phana Nakhon, Amphoe Nakhon Phathamni, Rayong,
Thailand, 21100
Project : WHA Rayong 36
Project Location : QUING INDUSTRY (THAILAND) CO., LTD., J.10_WWT_WHARayong36_001_2568

Sample Number : RA2802129-001
Sampled Date : Mar 10, 2026 10:25 AM
Sample Name : Wastewater
Sampling Site : QUING INDUSTRY (THAILAND) CO., LTD.
Contract ID : WWT_WHARayong36_001_2568
Plot : J.10
Date of Analysis : Mar 10, 2026
Sampled by : Wanayoo Chirphakae (1-323-4-0020)
Condition of Sample : 1x 500mL Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet/ data, 1x 1L Plastic Bottle, refrigerated
Physical Properties : yellow, strong odour, some solids, turbid

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	38.3	<200	E10044	Rayong
COD	mg/L	1.5	25	160	<400	E10046	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	E10048	Rayong
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	8.0	6-9	E10020	Rayong
Temperature *	°C	-	-	31.3	≤40	E10097	Rayong
Total Dissolved Solids at 180°C	mg/L	-	5	332	≤3000	E10100	Rayong
Total Suspended Solids	mg/L	-	5	14	≤200	E10102	Rayong

Guideline : Environmental Impact Assessment Report of WHA Rayong 36 Industrial Estate

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

Key :

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

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Analysis Report

Work Order : RA2802133
Client : WHA Utilities and Power Public Company Limited
27 Moo 2, Tambon Phana Nakhon, Amphoe Nakhon Phathamni, Rayong,
Thailand, 21100
Project : WHA Rayong 36
Project Location : THAIYA CORPORATION LIMITED, J.05_WWT_WHARayong36_003_2567

Sample Number : RA2802133-001
Sampled Date : Mar 10, 2026 09:15 AM
Sample Name : Wastewater
Sampling Site : THAIYA CORPORATION LIMITED
Contract ID : WWT_WHARayong36_003_2567
Plot : J.05
Date of Analysis : Mar 10, 2026
Sampled by : Wanayoo Chirphakae (1-323-4-0020)
Condition of Sample : 1x 500mL Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet/ data, 1x 1L Plastic Bottle, refrigerated
Physical Properties : yellow, strong odour, lots of solids, no turbid

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	133	<200	E10044	Rayong
COD	mg/L	1.5	25	244	<400	E10046	Rayong
Oil & Grease	mg/L	-	3	5	≤10	E10048	Rayong
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.3	6-9	E10020	Rayong
Temperature *	°C	-	-	29.3	≤40	E10097	Rayong
Total Dissolved Solids at 180°C	mg/L	-	5	582	≤3000	E10100	Rayong
Total Suspended Solids	mg/L	-	5	40	≤200	E10102	Rayong

Guideline : Environmental Impact Assessment Report of WHA Rayong 36 Industrial Estate

Comment : Sampling is 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

Work Order : RA2802129
Client : WHA Utilities and Power Public Company Limited
27 Moo 2, Tambon Phana Nakhon, Amphoe Nakhon Phathamni, Rayong,
Thailand, 21100
Project : WHA Rayong 36
Project Location : QUING INDUSTRY (THAILAND) CO., LTD., J.10_WWT_WHARayong36_001_2568

Sample Number : RA2802129-001
Sampled Date : Mar 10, 2026 10:25 AM
Sample Name : Wastewater
Sampling Site : QUING INDUSTRY (THAILAND) CO., LTD.
Contract ID : WWT_WHARayong36_001_2568
Plot : J.10
Date of Analysis : Mar 10, 2026
Sampled by : Wanayoo Chirphakae (1-323-4-0020)
Condition of Sample : 1x 500mL Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet/ data, 1x 1L Plastic Bottle, refrigerated
Physical Properties : yellow, strong odour, some solids, turbid

Method	Testing Lab	Method Descriptions
E10020	Rayong	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
E10044	Rayong	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (C)
E10046	Rayong	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
E10048	Rayong	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
E10097	Rayong	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 2550 B
E10100	Rayong	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 2540 C
E10102	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 : RA2802133
Client : WHA Utilities and Power Public Company Limited
27 Moo 2, Tambon Phana Nakhon, Amphoe Nakhon Phathamni, Rayong,
Thailand, 21100
Project : WHA Rayong 36
Project Location : THAIYA CORPORATION LIMITED, J.05_WWT_WHARayong36_003_2567

Sample Number : RA2802133-001
Sampled Date : Mar 10, 2026 09:15 AM
Sample Name : Wastewater
Sampling Site : THAIYA CORPORATION LIMITED
Contract ID : WWT_WHARayong36_003_2567
Plot : J.05
Date of Analysis : Mar 10, 2026
Sampled by : Wanayoo Chirphakae (1-323-4-0020)
Condition of Sample : 1x 500mL Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet/ data, 1x 1L Plastic Bottle, refrigerated
Physical Properties : yellow, strong odour, lots of solids, no turbid

Method	Testing Lab	Method Descriptions
E10020	Rayong	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
E10044	Rayong	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (C)
E10046	Rayong	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
E10048	Rayong	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
E10097	Rayong	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 2550 B
E10100	Rayong	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 2540 C
E10102	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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TESTING
No.0042

Analysis Report

Work Order : RA3802126
Client : WHA Utilities and Power Public Company Limited
27 Moo 2, Tambon Phana Nakhon, Amphoe Nakhon Phathamni, Rayong,
Thailand, 21100
Project : WHA Rayong 36
Project Location : CHOHO INDUSTRIAL (THAILAND) COMPANY LIMITED J21_WWT_WHARayong36_012_2567

Sample Number : RA3802126-001
Sample Date : Mar 10, 2026 09:06 AM
Sample Name : Wastewater
Sampling Site : CHOHO INDUSTRIAL (THAILAND) COMPANY LIMITED
Contract ID : WWT_WHARayong36_012_2567
Plot : J21
Date of Analysis : Mar 10, 2026
Sampled by : Wanayoo Chirphakae (1-323-4-0020)
Condition of Sample : 1x 500mL Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet/ data, 1x 1L Plastic Bottle, refrigerated

Physical Properties : yellow, strong odour, some solid, highly turbid

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	62.9	<200	E10044	Rayong
COD	mg/L	1.5	25	245	<400	E10046	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	E10048	Rayong
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.2	6-9	E10020	Rayong
Temperature *	°C	-	-	30.0	≤40	E10097	Rayong
Total Dissolved Solids at 180°C	mg/L	-	5	392	≤3000	E10100	Rayong
Total Suspended Solids	mg/L	-	5	19	≤200	E10102	Rayong

Guideline : Environmental Impact Assessment Report of WHA Rayong 36 Industrial Estate

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

Key :

- LOD : Limit of Detection
- * : Lower than LOQ (Limit of Quantification) / LOR (Limit of Reporting)
- Analyte(s) marked * are not included in scope of Accreditation ISO/IEC 17025

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TESTING
No.0042

Analysis Report

Work Order : RA3802126
Client : WHA Utilities and Power Public Company Limited
27 Moo 2, Tambon Phana Nakhon, Amphoe Nakhon Phathamni, Rayong,
Thailand, 21100
Project : WHA Rayong 36
Project Location : Faurecia Automotive Parts (Thailand) Co., Ltd. J11-2_WWT_WHARayong36_014_2567

Sample Number : RA3802126-001
Sample Date : Mar 10, 2026 10:12 AM
Sample Name : Wastewater
Sampling Site : Faurecia Automotive Parts (Thailand) Co., Ltd.
Contract ID : WWT_WHARayong36_014_2567
Plot : J11-2
Date of Analysis : Mar 10, 2026
Sampled by : Wanayoo Chirphakae (1-323-4-0020)
Condition of Sample : 1x 500mL Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet/ data, 1x 1L Plastic Bottle, refrigerated

Physical Properties : yellow, some odour, lots of solids, turbid

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	86.4	<200	E10044	Rayong
COD	mg/L	1.5	25	317	<400	E10046	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	E10048	Rayong
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.7	6-9	E10020	Rayong
Temperature *	°C	-	-	30.1	≤40	E10097	Rayong
Total Dissolved Solids at 180°C	mg/L	-	5	388	≤3000	E10100	Rayong
Total Suspended Solids	mg/L	-	5	33	≤200	E10102	Rayong

Guideline : Environmental Impact Assessment Report of WHA Rayong 36 Industrial Estate

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

Key :

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TESTING
No.0042

Analysis Report

Work Order : RA3802126
Client : WHA Utilities and Power Public Company Limited
27 Moo 2, Tambon Phana Nakhon, Amphoe Nakhon Phathamni, Rayong,
Thailand, 21100
Project : WHA Rayong 36
Project Location : CHOHO INDUSTRIAL (THAILAND) COMPANY LIMITED J21_WWT_WHARayong36_012_2567

Sample Number : RA3802126-001
Sample Date : Mar 10, 2026 09:06 AM
Sample Name : Wastewater
Sampling Site : CHOHO INDUSTRIAL (THAILAND) COMPANY LIMITED
Contract ID : WWT_WHARayong36_012_2567
Plot : J21
Date of Analysis : Mar 10, 2026
Sampled by : Wanayoo Chirphakae (1-323-4-0020)
Condition of Sample : 1x 500mL Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet/ data, 1x 1L Plastic Bottle, refrigerated

Physical Properties : yellow, strong odour, some solid, highly turbid

Method	Testing Lab	Method Descriptions
E10020	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
E10044	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (C)
E10046	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
E10048	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
E10097	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B
E10100	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C
E10102	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

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TESTING
No.0042

Analysis Report

Work Order : RA3802126
Client : WHA Utilities and Power Public Company Limited
27 Moo 2, Tambon Phana Nakhon, Amphoe Nakhon Phathamni, Rayong,
Thailand, 21100
Project : WHA Rayong 36
Project Location : Faurecia Automotive Parts (Thailand) Co., Ltd. J11-2_WWT_WHARayong36_014_2567

Sample Number : RA3802126-001
Sample Date : Mar 10, 2026 10:12 AM
Sample Name : Wastewater
Sampling Site : Faurecia Automotive Parts (Thailand) Co., Ltd.
Contract ID : WWT_WHARayong36_014_2567
Plot : J11-2
Date of Analysis : Mar 10, 2026
Sampled by : Wanayoo Chirphakae (1-323-4-0020)
Condition of Sample : 1x 500mL Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet/ data, 1x 1L Plastic Bottle, refrigerated

Physical Properties : yellow, some odour, lots of solids, turbid

Method	Testing Lab	Method Descriptions
E10020	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
E10044	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (C)
E10046	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
E10048	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
E10097	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B
E10100	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C
E10102	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 : RA3802124
Client : WHA Utilities and Power Public Company Limited
27 Moo 2, Tambon Phana Nakhon, Amphoe Nakhon Phathamni, Rayong,
Thailand, 21100
Project : WHA Rayong 36
Project Location : BYD AUTO (THAILAND) CO.,LTD.,J29_WWT_WHARayong36_006_2567

Sample Number : RA3802124-001
Sampled Date : Mar 18, 2026 01:42 PM
Sample Name : Wastewater : Point No.2
Sampling Site : BYD AUTO (THAILAND) CO.,LTD.
Contract ID : WWT_WHARayong36_006_2567
Plot : J29
Date of Analysis : Mar 18, 2026
Sampled by : Wanayoo Chiraphakae (1-323-4-0020)
Condition of Sample : 1x 500mL Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet/data, 1x 1L Plastic Bottle, refrigerated
Physical Properties : yellow, strong odour, some solids, turbid

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	61.1	<200	E10044	Rayong
COD	mg/L	1.5	25	220	<400	E10046	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	E10048	Rayong
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.3	6-9	E10020	Rayong
Temperature *	°C	-	-	31.3	≤40	E10097	Rayong
Total Dissolved Solids at 180°C	mg/L	-	5	288	≤3000	E10100	Rayong
Total Suspended Solids	mg/L	-	5	22	≤200	E10102	Rayong

Guideline : Environmental Impact Assessment Report of WHA Rayong 36 Industrial Estate

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

Key :

- LOD : Limit of Detection
- * : Lower than LOQ (Limit of Quantification) / LOR (Limit of Reporting)
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Analysis Report

Work Order : RA3802125
Client : WHA Utilities and Power Public Company Limited
27 Moo 2, Tambon Phana Nakhon, Amphoe Nakhon Phathamni, Rayong,
Thailand, 21100
Project : WHA Rayong 36
Project Location : BYD AUTO (THAILAND) CO.,LTD.,J32_WWT_WHARayong36_011_2567

Sample Number : RA3802125-001
Sampled Date : Mar 18, 2026 01:50 PM
Sample Name : Wastewater : Point No.1
Sampling Site : BYD AUTO (THAILAND) CO.,LTD.
Contract ID : WWT_WHARayong36_011_2567
Plot : J32
Date of Analysis : Mar 18, 2026
Sampled by : Wanayoo Chiraphakae (1-323-4-0020)
Condition of Sample : 1x 500mL Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet/data, 1x 1L Plastic Bottle, refrigerated
Physical Properties : yellow, strong odour, some solids, turbid

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	48.6	<200	E10044	Rayong
COD	mg/L	1.5	25	185	<400	E10046	Rayong
Oil & Grease	mg/L	-	3	5	≤10	E10048	Rayong
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.8	6-9	E10020	Rayong
Temperature *	°C	-	-	31.0	≤40	E10097	Rayong
Total Dissolved Solids at 180°C	mg/L	-	5	392	≤3000	E10100	Rayong
Total Suspended Solids	mg/L	-	5	14	≤200	E10102	Rayong

Guideline : Environmental Impact Assessment Report of WHA Rayong 36 Industrial Estate

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

Key :

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Analysis Report

Work Order : RA3802124
Client : WHA Utilities and Power Public Company Limited
27 Moo 2, Tambon Phana Nakhon, Amphoe Nakhon Phathamni, Rayong,
Thailand, 21100
Project : WHA Rayong 36
Project Location : BYD AUTO (THAILAND) CO.,LTD.,J29_WWT_WHARayong36_006_2567

Sample Number : RA3802124-001
Sampled Date : Mar 18, 2026 01:42 PM
Sample Name : Wastewater : Point No.2
Sampling Site : BYD AUTO (THAILAND) CO.,LTD.
Contract ID : WWT_WHARayong36_006_2567
Plot : J29
Date of Analysis : Mar 18, 2026
Sampled by : Wanayoo Chiraphakae (1-323-4-0020)
Condition of Sample : 1x 500mL Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet/data, 1x 1L Plastic Bottle, refrigerated
Physical Properties : yellow, strong odour, some solids, turbid

Method	Testing Lab	Method Descriptions
E10020	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
E10044	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (C)
E10046	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
E10048	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
E10097	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B
E10100	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C
E10102	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 : RA3802125
Client : WHA Utilities and Power Public Company Limited
27 Moo 2, Tambon Phana Nakhon, Amphoe Nakhon Phathamni, Rayong,
Thailand, 21100
Project : WHA Rayong 36
Project Location : BYD AUTO (THAILAND) CO.,LTD.,J32_WWT_WHARayong36_011_2567

Sample Number : RA3802125-001
Sampled Date : Mar 18, 2026 01:50 PM
Sample Name : Wastewater : Point No.1
Sampling Site : BYD AUTO (THAILAND) CO.,LTD.
Contract ID : WWT_WHARayong36_011_2567
Plot : J32
Date of Analysis : Mar 18, 2026
Sampled by : Wanayoo Chiraphakae (1-323-4-0020)
Condition of Sample : 1x 500mL Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet/data, 1x 1L Plastic Bottle, refrigerated
Physical Properties : yellow, strong odour, some solids, turbid

Method	Testing Lab	Method Descriptions
E10020	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
E10044	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (C)
E10046	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
E10048	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
E10097	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B
E10100	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C
E10102	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 : RA3802122
Client : WHA Utilities and Power Public Company Limited
27 Moo 2, Tambon Phana Nakhon, Amphoe Nakhon Phatham, Rayong,
Thailand, 21100
Project : WHA Rayong 36
Project Location : BYD AUTO (THAILAND) CO.,LTD.,J19D,_WWT_WHARayong36_008_2567

Sample Number : RA3802122-001
Sampled Date : Mar 10, 2026 02:40 PM
Sample Name : Wastewater : Point No.6
Sampling Site : BYD AUTO (THAILAND) CO.,LTD.
Contract ID : WWT_WHARayong36_008_2567
Plot : J19D
Date of Analysis : Mar 10, 2026
Sampled by : Wanayoo Chiraphak (1-323-4-0020)
Condition of Sample : 1x 500mL Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet/data, 1x 1L Plastic Bottle, refrigerated
Physical Properties : yellow, strong odour, lots of solids, turbid

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	36.2	<200	E10044	Rayong
COD	mg/L	1.5	25	166	<400	E10046	Rayong
Oil & Grease	mg/L	-	3	5	≤10	E10048	Rayong
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.7	6-9	E10020	Rayong
Temperature *	°C	-	-	31.1	≤40	E10097	Rayong
Total Dissolved Solids at 180°C	mg/L	-	5	452	≤3000	E10100	Rayong
Total Suspended Solids	mg/L	-	5	29	≤200	E10102	Rayong

Guideline : Environmental Impact Assessment Report of WHA Rayong 36 Industrial Estate

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

Key :

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

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Analysis Report

Work Order : RA3802123
Client : WHA Utilities and Power Public Company Limited
27 Moo 2, Tambon Phana Nakhon, Amphoe Nakhon Phatham, Rayong,
Thailand, 21100
Project : WHA Rayong 36
Project Location : BYD AUTO (THAILAND) CO.,LTD.,J28B,_WWT_WHARayong36_010_2567

Sample Number : RA3802123-001
Sampled Date : Mar 10, 2026 02:08 PM
Sample Name : Wastewater : Point No.3
Sampling Site : BYD AUTO (THAILAND) CO.,LTD.
Contract ID : WWT_WHARayong36_010_2567
Plot : J28B
Date of Analysis : Mar 10, 2026
Sampled by : Wanayoo Chiraphak (1-323-4-0020)
Condition of Sample : 1x 500mL Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet/data, 1x 1L Plastic Bottle, refrigerated
Physical Properties : yellow, strong odour, some solids, turbid

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	26.5	<200	E10044	Rayong
COD	mg/L	1.5	25	143	<400	E10046	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	E10048	Rayong
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.8	6-9	E10020	Rayong
Temperature *	°C	-	-	31.6	≤40	E10097	Rayong
Total Dissolved Solids at 180°C	mg/L	-	5	278	≤3000	E10100	Rayong
Total Suspended Solids	mg/L	-	5	14	≤200	E10102	Rayong

Guideline : Environmental Impact Assessment Report of WHA Rayong 36 Industrial Estate

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

Key :

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

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Analysis Report

Work Order : RA3802122
Client : WHA Utilities and Power Public Company Limited
27 Moo 2, Tambon Phana Nakhon, Amphoe Nakhon Phatham, Rayong,
Thailand, 21100
Project : WHA Rayong 36
Project Location : BYD AUTO (THAILAND) CO.,LTD.,J19D,_WWT_WHARayong36_008_2567

Sample Number : RA3802122-001
Sampled Date : Mar 10, 2026 02:40 PM
Sample Name : Wastewater : Point No.6
Sampling Site : BYD AUTO (THAILAND) CO.,LTD.
Contract ID : WWT_WHARayong36_008_2567
Plot : J19D
Date of Analysis : Mar 10, 2026
Sampled by : Wanayoo Chiraphak (1-323-4-0020)
Condition of Sample : 1x 500mL Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet/data, 1x 1L Plastic Bottle, refrigerated
Physical Properties : yellow, strong odour, lots of solids, turbid

Method	Testing Lab	Method Descriptions
E10020	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
E10044	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (C)
E10046	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
E10048	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
E10097	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B
E10100	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C
E10102	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

Work Order : RA3802123
Client : WHA Utilities and Power Public Company Limited
27 Moo 2, Tambon Phana Nakhon, Amphoe Nakhon Phatham, Rayong,
Thailand, 21100
Project : WHA Rayong 36
Project Location : BYD AUTO (THAILAND) CO.,LTD.,J28B,_WWT_WHARayong36_010_2567

Sample Number : RA3802123-001
Sampled Date : Mar 10, 2026 02:08 PM
Sample Name : Wastewater : Point No.3
Sampling Site : BYD AUTO (THAILAND) CO.,LTD.
Contract ID : WWT_WHARayong36_010_2567
Plot : J28B
Date of Analysis : Mar 10, 2026
Sampled by : Wanayoo Chiraphak (1-323-4-0020)
Condition of Sample : 1x 500mL Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet/data, 1x 1L Plastic Bottle, refrigerated
Physical Properties : yellow, strong odour, some solids, turbid

Method	Testing Lab	Method Descriptions
E10020	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
E10044	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (C)
E10046	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
E10048	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
E10097	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B
E10100	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C
E10102	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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TESTING
No.0042

Analysis Report

Work Order : RA3802120
Client : WHA Utilities and Power Public Company Limited
27 Moo 2, Tambon Phana Nakhon, Amphoe Nakhon Phatham, Rayong,
Thailand, 21100
Project : WHA Rayong 36
Project Location : BYD AUTO (THAILAND) CO.,LTD.,J19C_WWT_WHARayong36_009_2567

Sample Number : RA3802120-001
Sampled Date : Mar 10, 2026 02:20 PM
Sample Name : Wastewater : Point No.4
Sampling Site : BYD AUTO (THAILAND) CO.,LTD.
Contract ID : WWT_WHARayong36_009_2567
Plot : J19C
Date of Analysis : Mar 10, 2026
Sampled by : Wanayoo Chirphakae (1-323-4-0020)
Condition of Sample : 1x 500mL Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet/data, 1x 1L Plastic Bottle, refrigerated
Physical Properties : yellow, strong odour, some solids, turbid

Analytical Results

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	40.8	<200	E10044	Rayong
COD	mg/L	1.5	25	145	<400	E10046	Rayong
Oil & Grease	mg/L	-	3	4	≤10	E10048	Rayong
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.8	6-9	E10020	Rayong
Temperature *	°C	-	-	31.3	≤40	E10097	Rayong
Total Dissolved Solids at 180°C	mg/L	-	5	252	<3000	E10100	Rayong
Total Suspended Solids	mg/L	-	5	24	<200	E10102	Rayong

Guideline : Environmental Impact Assessment Report of WHA Rayong 36 Industrial Estate
Comment : Sampling is not included in scope of accreditation ISO/IEC 17025
Key :

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

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TESTING
No.0042

Analysis Report

Work Order : RA3802121
Client : WHA Utilities and Power Public Company Limited
27 Moo 2, Tambon Phana Nakhon, Amphoe Nakhon Phatham, Rayong,
Thailand, 21100
Project : WHA Rayong 36
Project Location : BYD AUTO (THAILAND) CO.,LTD.,J19D_WWT_WHARayong36_007_2567

Sample Number : RA3802121-001
Sampled Date : Mar 10, 2026 02:35 PM
Sample Name : Wastewater : Point No.5
Sampling Site : BYD AUTO (THAILAND) CO.,LTD.
Contract ID : WWT_WHARayong36_007_2567
Plot : J19D
Date of Analysis : Mar 10, 2026
Sampled by : Wanayoo Chirphakae (1-323-4-0020)
Condition of Sample : 1x 500mL Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet/data, 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	11.2	<200	E10044	Rayong
COD	mg/L	1.5	25	55	<400	E10046	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	E10048	Rayong
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.9	6-9	E10020	Rayong
Temperature *	°C	-	-	31.9	≤40	E10097	Rayong
Total Dissolved Solids at 180°C	mg/L	-	5	152	<3000	E10100	Rayong
Total Suspended Solids	mg/L	-	5	21	<200	E10102	Rayong

Guideline : Environmental Impact Assessment Report of WHA Rayong 36 Industrial Estate
Comment : Sampling is 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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TESTING
No.0042

Analysis Report

Work Order : RA3802120
Client : WHA Utilities and Power Public Company Limited
27 Moo 2, Tambon Phana Nakhon, Amphoe Nakhon Phatham, Rayong,
Thailand, 21100
Project : WHA Rayong 36
Project Location : BYD AUTO (THAILAND) CO.,LTD.,J19C_WWT_WHARayong36_009_2567

Sample Number : RA3802120-001
Sampled Date : Mar 10, 2026 02:20 PM
Sample Name : Wastewater : Point No.4
Sampling Site : BYD AUTO (THAILAND) CO.,LTD.
Contract ID : WWT_WHARayong36_009_2567
Plot : J19C
Date of Analysis : Mar 10, 2026
Sampled by : Wanayoo Chirphakae (1-323-4-0020)
Condition of Sample : 1x 500mL Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet/data, 1x 1L Plastic Bottle, refrigerated
Physical Properties : yellow, strong odour, some solids, turbid

Brief Method Summaries
The methods in the analysis report are short format, refer to full test methods in accordance with the ISO/IEC 17025 certificate no. specified in the analysis report.

Method	Testing Lab	Method Descriptions
E10020	Rayong	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
E10044	Rayong	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (C)
E10046	Rayong	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
E10048	Rayong	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
E10097	Rayong	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 2550 B
E10100	Rayong	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 2540 C
E10102	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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TESTING
No.0042

Analysis Report

Work Order : RA3802121
Client : WHA Utilities and Power Public Company Limited
27 Moo 2, Tambon Phana Nakhon, Amphoe Nakhon Phatham, Rayong,
Thailand, 21100
Project : WHA Rayong 36
Project Location : BYD AUTO (THAILAND) CO.,LTD.,J19D_WWT_WHARayong36_007_2567

Sample Number : RA3802121-001
Sampled Date : Mar 10, 2026 02:35 PM
Sample Name : Wastewater : Point No.5
Sampling Site : BYD AUTO (THAILAND) CO.,LTD.
Contract ID : WWT_WHARayong36_007_2567
Plot : J19D
Date of Analysis : Mar 10, 2026
Sampled by : Wanayoo Chirphakae (1-323-4-0020)
Condition of Sample : 1x 500mL Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet/data, 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 certificate no. specified in the analysis report.

Method	Testing Lab	Method Descriptions
E10020	Rayong	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
E10044	Rayong	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (C)
E10046	Rayong	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
E10048	Rayong	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
E10097	Rayong	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 2550 B
E10100	Rayong	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 2540 C
E10102	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	RA2801038	Date Received	Feb 09, 2026
Cliet	WHA Utilities and Power Public Company Limited	Date Reported	Feb 18, 2026
	27 Moo 2, Tambon Phana Nakhon, Amphoe Nakhon Phathamni, Rayong,	Report Number	RA2801038-AB (1)
	Thailand, 21100		
Project	WHA Rayong 36		
Project Location	CHOHO INDUSTRIAL (THAILAND) COMPANY LIMITED J21_WWT_WHARayong36_012_2567		
Sample Number	RA2801038-001		
Sampled Date	Feb 09, 2026 09:22 AM		
Sample Name	Wastewater		
Sampling Site	CHOHO INDUSTRIAL (THAILAND) COMPANY LIMITED		
Contract ID	WWT_WHARayong36_012_2567		
Pilot	J21		
Date of Analysis	Feb 14, 2026		
Sampled by	Samart Khumhiew (1-204-4-0094)		
	Wananyoo Chiraphalee (1-323-4-0020)		

Condition of Sample 2x 1L Plastic Bottle, 1x Cyanide, 1x Plastic Bottle - Preserved with H2SO4, 1x Plastic Bottle - Preserved with Zinc Acetate and NaOH, 1x Oil & Grease, 1x Loghewit/ data, 1x Plastic Bottle - Preserved with HNO3, 1x 500mL Plastic Bottle, 1x Plastic Bottle - Preserved with NaOH, 2x Amber Glass Bottle- Unpreserved, 1x 500mL Plastic bottle - Preserved with H2SO4, refrigerated yellow, strong odour, some solids, turbid

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Pesticides - Organochlorine							
Endrin	µg/L	0.01	0.02	Not Detected	Not Detected	EN0069	Bangkok
gamma-BHC (Lindane)	µg/L	0.01	0.02	Not Detected	Not Detected	EN0069	Bangkok
Heptachlor epoxide	µg/L	0.01	0.02	Not Detected	Not Detected	EN0069	Bangkok
Methoxychlor	µg/L	0.01	0.02	Not Detected	Not Detected	EN0069	Bangkok
Heptachlor	µg/L	0.01	0.02	Not Detected	Not Detected	EN0069	Bangkok

Guideline: Environmental Impact Assessment Report of WHA Rayong 36 Industrial Estate

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

- Key
- LOD: Limit of Detection
 - LOQ: 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
EN0069	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 6630 D, part 6410 B

Signatories

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Siruk Burmak
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Karokkum Anek

Karokkum Anek
Assistant General Manager
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Analysis Report

Work Order	RA2801038	Date Received	Feb 09, 2026
Cliet	WHA Utilities and Power Public Company Limited	Date Reported	Feb 18, 2026
	27 Moo 2, Tambon Phana Nakhon, Amphoe Nakhon Phathamni, Rayong,	Report Number	RA2801038-AC (1)
	Thailand, 21100		
Project	WHA Rayong 36		
Project Location	CHOHO INDUSTRIAL (THAILAND) COMPANY LIMITED J21_WWT_WHARayong36_012_2567		
Sample Number	RA2801038-001		
Sampled Date	Feb 09, 2026 09:22 AM		
Sample Name	Wastewater		
Sampling Site	CHOHO INDUSTRIAL (THAILAND) COMPANY LIMITED		
Contract ID	WWT_WHARayong36_012_2567		
Pilot	J21		
Date of Analysis	Feb 09, 2026		
Sampled by	Samart Khumhiew		
	Wananyoo Chiraphalee		

Condition of Sample 2x 1L Plastic Bottle, 1x Cyanide, 1x Plastic Bottle - Preserved with H2SO4, 1x Plastic Bottle - Preserved with Zinc Acetate and NaOH, 1x Oil & Grease, 1x Loghewit/ data, 1x Plastic Bottle - Preserved with HNO3, 1x 500mL Plastic Bottle, 1x Plastic Bottle - Preserved with NaOH, 2x Amber Glass Bottle- Unpreserved, 1x 500mL Plastic bottle - Preserved with H2SO4, refrigerated yellow, strong odour, some solids, turbid

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
Asiatic Surfactants as MBAS	mg/L	-	0.05	17.3	≤30	EN0043	Bangkok
Fluoride	mg/L	-	0.2	0.3	≤5	EN0253	Rayong
Metals and Major Cations - Total							
Iron	mg/L	0.005	0.01	0.59	≤10	ME0002	Rayong
Silver	mg/L	0.005	0.01	Not Detected	≤1	ME0002	Rayong

Guideline: Environmental Impact Assessment Report of WHA Rayong 36 Industrial Estate

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

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

Signatories

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Siruk Burmak
Section Head

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ALS Laboratory Group (Thailand) Co., Ltd. Rayong Life Sciences

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Analysis Report

Work Order	RA2801038	Date Received	Feb 09, 2026
Cliet	WHA Utilities and Power Public Company Limited	Date Reported	Feb 18, 2026
	27 Moo 2, Tambon Phana Nakhon, Amphoe Nakhon Phathamni, Rayong,	Report Number	RA2801038-AB (1)
	Thailand, 21100		
Project	WHA Rayong 36		
Project Location	CHOHO INDUSTRIAL (THAILAND) COMPANY LIMITED J21_WWT_WHARayong36_012_2567		
Sample Number	RA2801038-001		
Sampled Date	Feb 09, 2026 09:22 AM		
Sample Name	Wastewater		
Sampling Site	CHOHO INDUSTRIAL (THAILAND) COMPANY LIMITED		
Contract ID	WWT_WHARayong36_012_2567		
Pilot	J21		
Date of Analysis	Feb 14, 2026		
Sampled by	Samart Khumhiew (1-204-4-0094)		
	Wananyoo Chiraphalee (1-323-4-0020)		

Condition of Sample 2x 1L Plastic Bottle, 1x Cyanide, 1x Plastic Bottle - Preserved with H2SO4, 1x Plastic Bottle - Preserved with Zinc Acetate and NaOH, 1x Oil & Grease, 1x Loghewit/ data, 1x Plastic Bottle - Preserved with HNO3, 1x 500mL Plastic Bottle, 1x Plastic Bottle - Preserved with NaOH, 2x Amber Glass Bottle- Unpreserved, 1x 500mL Plastic bottle - Preserved with H2SO4, refrigerated yellow, strong odour, some solids, turbid

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Pesticides - Organochlorine							
Endrin	µg/L	0.01	0.02	Not Detected	Not Detected	EN0069	Bangkok
gamma-BHC (Lindane)	µg/L	0.01	0.02	Not Detected	Not Detected	EN0069	Bangkok
Heptachlor epoxide	µg/L	0.01	0.02	Not Detected	Not Detected	EN0069	Bangkok
Methoxychlor	µg/L	0.01	0.02	Not Detected	Not Detected	EN0069	Bangkok
Heptachlor	µg/L	0.01	0.02	Not Detected	Not Detected	EN0069	Bangkok

Guideline: Environmental Impact Assessment Report of WHA Rayong 36 Industrial Estate

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

- Key
- LOD: Limit of Detection
 - LOQ: 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
EN0069	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 6630 D, part 6410 B

Signatories

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1-204-4-0013

Karokkum Anek

Karokkum Anek
Assistant General Manager
1-204-4-0004

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Analysis Report

Work Order	RA2801038	Date Received	Feb 09, 2026
Cliet	WHA Utilities and Power Public Company Limited	Date Reported	Feb 18, 2026
	27 Moo 2, Tambon Phana Nakhon, Amphoe Nakhon Phathamni, Rayong,	Report Number	RA2801038-AC (1)
	Thailand, 21100		
Project	WHA Rayong 36		
Project Location	CHOHO INDUSTRIAL (THAILAND) COMPANY LIMITED J21_WWT_WHARayong36_012_2567		
Sample Number	RA2801038-001		
Sampled Date	Feb 09, 2026 09:22 AM		
Sample Name	Wastewater		
Sampling Site	CHOHO INDUSTRIAL (THAILAND) COMPANY LIMITED		
Contract ID	WWT_WHARayong36_012_2567		
Pilot	J21		
Date of Analysis	Feb 09, 2026		
Sampled by	Samart Khumhiew		
	Wananyoo Chiraphalee		

Condition of Sample 2x 1L Plastic Bottle, 1x Cyanide, 1x Plastic Bottle - Preserved with H2SO4, 1x Plastic Bottle - Preserved with Zinc Acetate and NaOH, 1x Oil & Grease, 1x Loghewit/ data, 1x Plastic Bottle - Preserved with HNO3, 1x 500mL Plastic Bottle, 1x Plastic Bottle - Preserved with NaOH, 2x Amber Glass Bottle- Unpreserved, 1x 500mL Plastic bottle - Preserved with H2SO4, refrigerated yellow, strong odour, some solids, turbid

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
Asiatic Surfactants as MBAS	mg/L	-	0.05	17.3	≤30	EN0043	Bangkok
Fluoride	mg/L	-	0.2	0.3	≤5	EN0253	Rayong
Metals and Major Cations - Total							
Iron	mg/L	0.005	0.01	0.59	≤10	ME0002	Rayong
Silver	mg/L	0.005	0.01	Not Detected	≤1	ME0002	Rayong

Guideline: Environmental Impact Assessment Report of WHA Rayong 36 Industrial Estate

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

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

Signatories

Siruk P.

Siruk Burmak
Section Head

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

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Analysis Report

Work Order : RA2801038
Client : WHA Utilities and Power Public Company Limited
27 Moo 2, Tambon Phana Nakhon, Amphoe Nakhon Phathamni, Rayong, Thailand, 21100
Project : WHA Rayong 36
Project Location : CHOHO INDUSTRIAL (THAILAND) COMPANY LIMITED J21_WWT_WHARayong36_012_2567

Sample Number : RA2801038-001
Sample Date : Feb 09, 2026 09:22 AM
Sample Name : Wastewater
Sampling Site : CHOHO INDUSTRIAL (THAILAND) COMPANY LIMITED
Contract ID : WWT_WHARayong36_012_2567
Plot : J21
Date of Analysis : Feb 09, 2026
Sampled by : Samart Khumhiew (1-204-4-0094)
Wananyoo Chiraphaler (1-323-a-0020)

Condition of Sample : 2x 1L Plastic Bottle, 1x Cyanide, 1x Plastic bottle - Preserved with H2SO4, 1x Plastic Bottle - Preserved with Zinc Acetate and NaOH, 1x Oil & Grease, 1x Loghewit/ data, 1x Plastic Bottle - Preserved with HNO3, 1x 500mL Plastic Bottle, 1x Plastic Bottle - Preserved with NaOH, 2x Amber Glass Bottle- Unpreserved, 1x 500mL Plastic bottle - Preserved with H2SO4, refrigerated yellow, strong odour, some solids, turbid

Physical Properties
Guideline : Environmental Impact Assessment Report of WHA Rayong 36 Industrial Estate
Comment : Sampling is not included in scope of accreditation ISO/IEC 17025
Key :

- LOD : Limit of Detection
- <L : Lower than LOD (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC17025

Signatories

Jitsupa P.

Jitsupa Pratsangruk
Scientist (2)
1-323-a-0004

Dej Changchon

Dej Changchon
Senior Manager
1-323-a-0001

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Analysis Report

Work Order : RA2801038
Client : WHA Utilities and Power Public Company Limited
27 Moo 2, Tambon Phana Nakhon, Amphoe Nakhon Phathamni, Rayong, Thailand, 21100
Project : WHA Rayong 36
Project Location : CHOHO INDUSTRIAL (THAILAND) COMPANY LIMITED J21_WWT_WHARayong36_012_2567

Sample Number : RA2801038-001
Sample Date : Feb 09, 2026 09:22 AM
Sample Name : Wastewater
Sampling Site : CHOHO INDUSTRIAL (THAILAND) COMPANY LIMITED
Contract ID : WWT_WHARayong36_012_2567
Plot : J21
Date of Analysis : Feb 09, 2026
Sampled by : Samart Khumhiew (1-204-4-0094)
Wananyoo Chiraphaler (1-323-a-0020)

Condition of Sample : 2x 1L Plastic Bottle, 1x Cyanide, 1x Plastic bottle - Preserved with H2SO4, 1x Plastic Bottle - Preserved with Zinc Acetate and NaOH, 1x Oil & Grease, 1x Loghewit/ data, 1x Plastic Bottle - Preserved with HNO3, 1x 500mL Plastic Bottle, 1x Plastic Bottle - Preserved with NaOH, 2x Amber Glass Bottle- Unpreserved, 1x 500mL Plastic bottle - Preserved with H2SO4, refrigerated yellow, strong odour, some solids, turbid

Physical Properties
Method Testing Lab Method Descriptions
ME0002 Raying Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3120 B, 3030 F
ME0003 Raying Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, Calculated APHA 3120 Calculation
ME0005 Raying Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3112 (B)
ME0008 Raying Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3500-Cr (B)

END OF REPORT

Signatories

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Analysis Report

Work Order : RA2801038
Client : WHA Utilities and Power Public Company Limited
27 Moo 2, Tambon Phana Nakhon, Amphoe Nakhon Phathamni, Rayong, Thailand, 21100
Project : WHA Rayong 36
Project Location : CHOHO INDUSTRIAL (THAILAND) COMPANY LIMITED J21_WWT_WHARayong36_012_2567

Sample Number : RA2801038-001
Sample Date : Feb 09, 2026 09:22 AM
Sample Name : Wastewater
Sampling Site : CHOHO INDUSTRIAL (THAILAND) COMPANY LIMITED
Contract ID : WWT_WHARayong36_012_2567
Plot : J21
Date of Analysis : Feb 09, 2026
Sampled by : Samart Khumhiew (1-204-4-0094)
Wananyoo Chiraphaler (1-323-a-0020)

Condition of Sample : 2x 1L Plastic Bottle, 1x Cyanide, 1x Plastic bottle - Preserved with H2SO4, 1x Plastic Bottle - Preserved with Zinc Acetate and NaOH, 1x Oil & Grease, 1x Loghewit/ data, 1x Plastic Bottle - Preserved with HNO3, 1x 500mL Plastic Bottle, 1x Plastic Bottle - Preserved with NaOH, 2x Amber Glass Bottle- Unpreserved, 1x 500mL Plastic bottle - Preserved with H2SO4, refrigerated yellow, strong odour, some solids, turbid

Physical Properties
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
E10005	Raying	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - CN C, E
E10016	Raying	Wastewater analysis manual, Environmental Engineering Association of Thailand, 4th ed., 2004
E10026	Raying	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
E10027	Raying	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - Cl (F)
E10032	Raying	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - S2 (C, F)
E10044	Raying	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - D (G)
E10048	Raying	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
E10049	Raying	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5520 B, D
E10051	Raying	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5530 B, D
E10080	Raying	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2120 F
E10097	Raying	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2550 B
E10100	Raying	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 C
E10102	Raying	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 D
E10228	Raying	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500-Hong (C), part 1840 (D)

Signatories

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Analysis Report

Work Order : RA2801038
Client : WHA Utilities and Power Public Company Limited
27 Moo 2, Tambon Phana Nakhon, Amphoe Nakhon Phathamni, Rayong, Thailand, 21100
Project : WHA Rayong 36
Project Location : CHOHO INDUSTRIAL (THAILAND) COMPANY LIMITED J21_WWT_WHARayong36_012_2567

Sample Number : RA2801038-001
Sample Date : Feb 09, 2026 09:22 AM
Sample Name : Wastewater
Sampling Site : CHOHO INDUSTRIAL (THAILAND) COMPANY LIMITED
Contract ID : WWT_WHARayong36_012_2567
Plot : J21
Date of Analysis : Feb 14, 2026
Sampled by : Samart Khumhiew (1-204-4-0094)
Wananyoo Chiraphaler (1-323-a-0020)

Condition of Sample : 2x 1L Plastic Bottle, 1x Cyanide, 1x Plastic bottle - Preserved with H2SO4, 1x Plastic Bottle - Preserved with Zinc Acetate and NaOH, 1x Oil & Grease, 1x Loghewit/ data, 1x Plastic Bottle - Preserved with HNO3, 1x 500mL Plastic Bottle, 1x Plastic Bottle - Preserved with NaOH, 2x Amber Glass Bottle- Unpreserved, 1x 500mL Plastic bottle - Preserved with H2SO4, refrigerated yellow, strong odour, some solids, turbid

Physical Properties
Analytical Results

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Pesticides - Organochlorine							
2,4-DDB	µg/L	0.01	0.02	Not Detected	Not Detected	E10069	Bangkok
2,4-DDE	µg/L	0.01	0.02	Not Detected	Not Detected	E10069	Bangkok
2,4-DDT	µg/L	0.01	0.02	Not Detected	Not Detected	E10069	Bangkok
4,4-DDD	µg/L	0.01	0.02	Not Detected	Not Detected	E10069	Bangkok
4,4-DDE	µg/L	0.01	0.02	Not Detected	Not Detected	E10069	Bangkok
4,4-DDT	µg/L	0.01	0.02	Not Detected	Not Detected	E10069	Bangkok
Aldrin	µg/L	0.01	0.02	Not Detected	Not Detected	E10069	Bangkok
alpha-BHC	µg/L	0.01	0.02	Not Detected	Not Detected	E10069	Bangkok
beta-BHC	µg/L	0.01	0.02	Not Detected	Not Detected	E10069	Bangkok
Chlordane	µg/L	0.01	0.04	Not Detected	Not Detected	E10069	Bangkok
delta-BHC	µg/L	0.01	0.02	Not Detected	Not Detected	E10069	Bangkok
Dieldrin	µg/L	0.01	0.02	Not Detected	Not Detected	E10069	Bangkok
Endosulfan I (alpha isomer)	µg/L	0.01	0.02	Not Detected	Not Detected	E10069	Bangkok
Endosulfan II (beta isomer)	µg/L	0.01	0.02	Not Detected	Not Detected	E10069	Bangkok
Endrin aldehyde	µg/L	0.01	0.02	Not Detected	Not Detected	E10069	Bangkok

Signatories

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Karndok Anek

Karndok Anek
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Analysis Report

Work Order : RA2801037
Client : WHA Utilities and Power Public Company Limited
27 Moo 2, Tambon Phana Nakhon, Amphoe Nakhon Phatham, Rayong, Thailand, 21100
Project : WHA Rayong 36
Project Location : Silverspark Development (Thailand) Co., Ltd., J12, WWT_WHARayong36_013_2567

Sample Number : RA2801037-001
Sample Date : Feb 09, 2026 10:15 AM
Sample Name : Wastewater
Sampling Site : Silverspark Development (Thailand) Co., Ltd.
Contract ID : WWT_WHARayong36_013_2567
Plot : J12
Date of Analysis : Feb 09, 2026
Sampled by : Wananyoo Chiraphak (1-323-4-0020)
Condition of Sample : 1x 500mL Plastic Bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet/ data, 1x 1L Plastic Bottle, refrigerated
Physical Properties : yellow, strong odour, lots of solids, highly turbid

Analytical Results

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	58.5	<200	EN6044	Rayong
COD	mg/L	1.5	25	243	<400	EN6046	Rayong
Oil & Grease	mg/L	-	3	13	<10	EN6048	Rayong
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	8.0	6-9	EN6020	Rayong
Temperature *	°C	-	-	29.3	<40	EN6097	Rayong
Total Dissolved Solids at 180°C	mg/L	-	5	404	<3000	EN6100	Rayong
Total Suspended Solids	mg/L	-	5	28	<200	EN6102	Rayong

Guideline : Environmental Impact Assessment Report of WHA Rayong 36 Industrial Estate
Comment : Sampling is not included in scope of accreditation ISO/IEC 17025
Key :

- LOD : Limit of Detection
- * : Lower than LOQ (Limit of Quantification) / LOR (Limit of Reporting)
- Analyte(s) marked * are not included in scope of Accreditation ISO/IEC 17025

Signatories

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Analysis Report

Work Order : RA2801038
Client : WHA Utilities and Power Public Company Limited
27 Moo 2, Tambon Phana Nakhon, Amphoe Nakhon Phatham, Rayong, Thailand, 21100
Project : WHA Rayong 36
Project Location : CHOH INDUSTRIAL (THAILAND) COMPANY LIMITED, J12, WWT_WHARayong36_012_2567

Sample Number : RA2801038-001
Sample Date : Feb 09, 2026 09:22 AM
Sample Name : Wastewater
Sampling Site : CHOH INDUSTRIAL (THAILAND) COMPANY LIMITED
Contract ID : WWT_WHARayong36_012_2567
Plot : J12
Date of Analysis : Feb 09, 2026
Sampled by : Samart Khumhiew (1-204-4-0004)
Wananyoo Chiraphak (1-323-4-0020)
Condition of Sample : 2x 1L Plastic Bottle, 1x Cyanide, 1x Plastic Bottle - Preserved with H2SO4, 1x Plastic Bottle - Preserved with Zinc Acetate and NaOH, 1x Oil & Grease, 1x Logsheet/ data, 1x Plastic Bottle - Preserved with HNO3, 1x 500mL Plastic Bottle, 1x Plastic Bottle - Preserved with NaOH, 2x Amber Glass Bottle - Unpreserved, 1x 500mL Plastic Bottle - Preserved with H2SO4, refrigerated
Physical Properties : yellow, strong odour, some solids, turbid

Analytical Results

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	52.8	<200	EN6044	Rayong
COD	mg/L	1.5	25	131	<400	EN6046	Rayong
Cyanide as HCN	mg/L	0.001	0.005	Not Detected	<0.2	EN6005	Rayong
Formaldehyde	mg/L	0.03	0.1	<0.1	<1	EN6010	Rayong
Oil & Grease	mg/L	-	3	<3	<10	EN6048	Rayong
Phenol	mg/L	0.005	0.010	0.036	<1	EN6051	Rayong
Residual Free Chlorine *	mg/L	-	0.1	<0.1	<1	EN6027	Rayong
Sulfides *	mg/L	-	0.5	0.5	<1	EN6032	Rayong
Total Kjeldahl Nitrogen as N	mg/L	-	1.0	04.7	<100	EN6026	Rayong
Metals and Major Cations							
Hexavalent Chromium *	mg/L	0.003	0.01	Not Detected	<0.25	ME0090	Rayong
Metals and Major Cations - Total							
Arsenic *	mg/L	0.002	0.005	Not Detected	<0.25	ME0002	Rayong
Barium *	mg/L	0.002	0.005	0.073	<1	ME0002	Rayong
Cadmium *	mg/L	0.001	0.002	Not Detected	<0.03	ME0002	Rayong

Signatories

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Analysis Report

Work Order : RA2801037
Client : WHA Utilities and Power Public Company Limited
27 Moo 2, Tambon Phana Nakhon, Amphoe Nakhon Phatham, Rayong, Thailand, 21100
Project : WHA Rayong 36
Project Location : Silverspark Development (Thailand) Co., Ltd., J12, WWT_WHARayong36_013_2567

Sample Number : RA2801037-001
Sample Date : Feb 09, 2026 10:15 AM
Sample Name : Wastewater
Sampling Site : Silverspark Development (Thailand) Co., Ltd.
Contract ID : WWT_WHARayong36_013_2567
Plot : J12
Date of Analysis : Feb 09, 2026
Sampled by : Wananyoo Chiraphak (1-323-4-0020)
Condition of Sample : 1x 500mL Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet/ data, 1x 1L Plastic Bottle, refrigerated
Physical Properties : yellow, strong odour, lots of solids, highly turbid

Brief Method Summaries

The methods in the analysis report are short format, refer to full test methods in accordance with the ISO/IEC 17025 certificate no. specified in the analysis report.

Method	Testing Lab	Method Description
EN60025	Rayong	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN6004	Rayong	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (C)
EN60048	Rayong	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN60048	Rayong	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN60097	Rayong	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 2550 B
EN6100	Rayong	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 2540 C
EN6102	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 : RA2801038
Client : WHA Utilities and Power Public Company Limited
27 Moo 2, Tambon Phana Nakhon, Amphoe Nakhon Phatham, Rayong, Thailand, 21100
Project : WHA Rayong 36
Project Location : CHOH INDUSTRIAL (THAILAND) COMPANY LIMITED, J12, WWT_WHARayong36_012_2567

Sample Number : RA2801038-001
Sample Date : Feb 09, 2026 09:22 AM
Sample Name : Wastewater
Sampling Site : CHOH INDUSTRIAL (THAILAND) COMPANY LIMITED
Contract ID : WWT_WHARayong36_012_2567
Plot : J12
Date of Analysis : Feb 09, 2026
Sampled by : Samart Khumhiew (1-204-4-0004)
Wananyoo Chiraphak (1-323-4-0020)
Condition of Sample : 2x 1L Plastic Bottle, 1x Cyanide, 1x Plastic Bottle - Preserved with H2SO4, 1x Plastic Bottle - Preserved with Zinc Acetate and NaOH, 1x Oil & Grease, 1x Logsheet/ data, 1x Plastic Bottle - Preserved with HNO3, 1x 500mL Plastic Bottle, 1x Plastic Bottle - Preserved with NaOH, 2x Amber Glass Bottle - Unpreserved, 1x 500mL Plastic Bottle - Preserved with H2SO4, refrigerated
Physical Properties : yellow, strong odour, some solids, turbid

Analytical Results

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Metals and Major Cations - Total							
Copper *	mg/L	0.005	0.01	Not Detected	<2	ME0002	Rayong
Lead *	mg/L	0.002	0.005	<0.005	<0.2	ME0002	Rayong
Manganese *	mg/L	0.001	0.002	0.028	<5	ME0002	Rayong
Mercury *	mg/L	0.0001	0.0005	Not Detected	<0.005	ME0005	Rayong
Nickel *	mg/L	0.002	0.005	<0.005	<1	ME0002	Rayong
Selenium *	mg/L	0.005	0.01	Not Detected	<0.02	ME0002	Rayong
Trivalent Chromium *	mg/L	-	0.01	<0.01	<0.75	ME0003	Rayong
Zinc *	mg/L	0.005	0.01	0.03	<5	ME0002	Rayong
Physical and Aggregate Properties							
Color (at Original pH)	ADMI	-	5	66	<600	EN6080	Rayong
Color (at pH 7.0)	ADMI	-	5	64	<600	EN6080	Rayong
pH - Field *	pH Unit	-	1.0	8.1	6-9	EN6020	Rayong
Temperature *	°C	-	-	31.2	<40	EN6097	Rayong
Total Dissolved Solids at 180°C	mg/L	-	5	296	<3000	EN6100	Rayong
Total Suspended Solids	mg/L	-	5	26	<200	EN6102	Rayong

Signatories

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TESTING
No.0042

Analysis Report

Work Order : RA2801034
Client : WHA Utilities and Power Public Company Limited
27 Moo 2, Tambon Phana Nakhon, Amphoe Nakhon Phatham, Rayong,
Thailand, 21100
Project : WHA Rayong 36
Project Location : THAIYA CORPORATION LIMITED, J05_WWT_WHARayong36_003_2567

Sample Number : RA2801034-001
Sampled Date : Feb 09, 2026 09:31 AM
Sample Name : Wastewater
Sampling Site : THAIYA CORPORATION LIMITED
Contract ID : WWT_WHARayong36_003_2567
Plot : J.05
Date of Analysis : Feb 09, 2026
Sampled by : Wanayoo Chirphakae (1-323-4-0020)
Condition of Sample : 1x 500mL Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet/ data, 1x 1L Plastic Bottle, refrigerated
Physical Properties : yellow, strong odour, some solids, turbid

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	143	<200	E10044	Rayong
COD	mg/L	1.5	25	288	<400	E10046	Rayong
Oil & Grease	mg/L	-	3	4	≤10	E10048	Rayong
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	6.9	6-9	E10020	Rayong
Temperature *	°C	-	-	28.7	≤40	E10097	Rayong
Total Dissolved Solids at 180°C	mg/L	-	5	544	≤3000	E10100	Rayong
Total Suspended Solids	mg/L	-	5	108	≤200	E10102	Rayong

Guideline : Environmental Impact Assessment Report of WHA Rayong 36 Industrial Estate

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

Key :

- LOD : Limit of Detection
- * : Lower than LOQ (Limit of Quantification) / LOR (Limit of Reporting)
- Analyte(s) marked * are not included in scope of Accreditation ISO/IEC 17025

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TESTING
No.0042

Analysis Report

Work Order : RA2801035
Client : WHA Utilities and Power Public Company Limited
27 Moo 2, Tambon Phana Nakhon, Amphoe Nakhon Phatham, Rayong,
Thailand, 21100
Project : WHA Rayong 36
Project Location : TOURFELLA MOTECH CO., LTD., J13_WWT_WHARayong36_002_2568

Sample Number : RA2801035-001
Sampled Date : Feb 09, 2026 10:06 AM
Sample Name : Wastewater
Sampling Site : TOURFELLA MOTECH CO., LTD.
Contract ID : WWT_WHARayong36_002_2568
Plot : J.13
Date of Analysis : Feb 09, 2026
Sampled by : Wanayoo Chirphakae (1-323-4-0020)
Condition of Sample : 1x 500mL Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet/ data, 1x 1L Plastic Bottle, refrigerated
Physical Properties : yellow, some odour, some solids, turbid

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	104	<200	E10044	Rayong
COD	mg/L	1.5	25	245	<400	E10046	Rayong
Oil & Grease	mg/L	-	3	25	≤10	E10048	Rayong
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.8	6-9	E10020	Rayong
Temperature *	°C	-	-	27.9	≤40	E10097	Rayong
Total Dissolved Solids at 180°C	mg/L	-	5	438	≤3000	E10100	Rayong
Total Suspended Solids	mg/L	-	5	37	≤200	E10102	Rayong

Guideline : Environmental Impact Assessment Report of WHA Rayong 36 Industrial Estate

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

Key :

- LOD : Limit of Detection
- * : Lower than LOQ (Limit of Quantification) / LOR (Limit of Reporting)
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TESTING
No.0042

Analysis Report

Work Order : RA2801034
Client : WHA Utilities and Power Public Company Limited
27 Moo 2, Tambon Phana Nakhon, Amphoe Nakhon Phatham, Rayong,
Thailand, 21100
Project : WHA Rayong 36
Project Location : THAIYA CORPORATION LIMITED, J05_WWT_WHARayong36_003_2567

Sample Number : RA2801034-001
Sampled Date : Feb 09, 2026 09:31 AM
Sample Name : Wastewater
Sampling Site : THAIYA CORPORATION LIMITED
Contract ID : WWT_WHARayong36_003_2567
Plot : J.05
Date of Analysis : Feb 09, 2026
Sampled by : Wanayoo Chirphakae (1-323-4-0020)
Condition of Sample : 1x 500mL Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet/ data, 1x 1L Plastic Bottle, refrigerated
Physical Properties : yellow, strong odour, some solids, turbid

Method	Testing Lab	Method Descriptions
E10020	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
E10044	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (C)
E10046	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
E10048	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
E10097	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B
E10100	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C
E10102	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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TESTING
No.0042

Analysis Report

Work Order : RA2801035
Client : WHA Utilities and Power Public Company Limited
27 Moo 2, Tambon Phana Nakhon, Amphoe Nakhon Phatham, Rayong,
Thailand, 21100
Project : WHA Rayong 36
Project Location : TOURFELLA MOTECH CO., LTD., J13_WWT_WHARayong36_002_2568

Sample Number : RA2801035-001
Sampled Date : Feb 09, 2026 10:06 AM
Sample Name : Wastewater
Sampling Site : TOURFELLA MOTECH CO., LTD.
Contract ID : WWT_WHARayong36_002_2568
Plot : J.13
Date of Analysis : Feb 09, 2026
Sampled by : Wanayoo Chirphakae (1-323-4-0020)
Condition of Sample : 1x 500mL Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet/ data, 1x 1L Plastic Bottle, refrigerated
Physical Properties : yellow, some odour, some solids, turbid

Method	Testing Lab	Method Descriptions
E10020	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
E10044	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (C)
E10046	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
E10048	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
E10097	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B
E10100	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C
E10102	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	RA2802119	Date Received	Mar 10, 2026				
Client	WHA Utilities and Power Public Company Limited	Date Reported	Mar 18, 2026				
	27 Moo 2, Tambon Phana Nakhon, Amphoe Nakhon Phatham, Rayong, Thailand, 21100	Report Number	RA2802119-AC				
Project	WHA Rayong 36						
Project Location	Silverspark Development (Thailand) Co., Ltd., J12, WWT_WHARayong36_013_2567						
Sample Number	RA2802119-001						
Sampled Date	Mar 10, 2026 10:00 AM						
Sample Name	Wastewater						
Sampling Site	Silverspark Development (Thailand) Co., Ltd.						
Contract ID	WWT_WHARayong36_013_2567						
Plot	J.12						
Date of Analysis	Mar 11, 2026						
Sampled by	Patchanon Inpruk Wanayoo Chiraphaler						
Condition of Sample	1x 500mL Plastic Bottle, 1x Cyanide, 1x Plastic bottle - Preserved with H2SO4, 1x Plastic Bottle - Preserved with Zinc Acetate and NaOH, 1x Oil & Grease, 1x Logsheet/ data, 1x Plastic Bottle - Preserved with HNO3, 2x Amber Glass Bottle- Unpreserved, 1x Plastic Bottle - Preserved with NaOH, 2x 1L Plastic Bottle, 1x 500mL Plastic bottle - Preserved with H2SO4, refrigerated yellow, strong odour, lots of solids, highly turbid						
Physical Properties							
Analytical Results							
Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
Asiatic Surfactants as MBAS	mg/L	-	0.05	1.82	<30	EN10043	Bangkok
Fluoride	mg/L	-	0.2	0.4	45	EN10253	Rayong
Metals and Major Cations - Total							
Iron	mg/L	0.005	0.01	0.21	≤10	ME0002	Rayong
Silver	mg/L	0.005	0.01	Not Detected	≤1	ME0002	Rayong
Guideline:	Environmental Impact Assessment Report of WHA Rayong 36 Industrial Estate						
Comment:	Sampling is not included in scope of accreditation ISO/IEC 17025						
Key:	o LOD : Limit of Detection o "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)						

Signatories

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Analysis Report

Work Order	RA2801033	Date Received	Feb 09, 2026				
Client	WHA Utilities and Power Public Company Limited	Date Reported	Feb 16, 2026				
	27 Moo 2, Tambon Phana Nakhon, Amphoe Nakhon Phatham, Rayong, Thailand, 21100	Report Number	RA2801033-AA				
Project	WHA Rayong 36						
Project Location	TAWAY Electric Company Limited, J.08, WWT_WHARayong36_004_2567						
Sample Number	RA2801033-001						
Sampled Date	Feb 09, 2026 10:32 AM						
Sample Name	Wastewater						
Sampling Site	TAWAY Electric Company Limited						
Contract ID	WWT_WHARayong36_004_2567						
Plot	J.08						
Date of Analysis	Feb 09, 2026						
Sampled by	Wanayoo Chiraphaler (1-323-4-0020)						
Condition of Sample	1x 500mL Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet/ data, 1x 1L Plastic Bottle, refrigerated yellow, some odour, some solid, no turbid						
Physical Properties							
Analytical Results							
Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	13.9	≤200	EN10044	Rayong
COD	mg/L	1.5	25	32	≤400	EN10046	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	EN10048	Rayong
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.8	6-9	EN10020	Rayong
Temperature *	°C	-	-	28.8	≤40	EN10097	Rayong
Total Dissolved Solids at 180°C	mg/L	-	5	134	≤3000	EN10100	Rayong
Total Suspended Solids	mg/L	-	5	7	≤200	EN10102	Rayong
Guideline:	Environmental Impact Assessment Report of WHA Rayong 36 Industrial Estate						
Comment:	Sampling is not included in scope of accreditation ISO/IEC 17025						
Key:	o LOD : Limit of Detection o "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting) o Analyte(s) marked * are not included in scope of Accreditation ISO/IEC 17025						

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Analysis Report

Work Order	RA2802119	Date Received	Mar 10, 2026
Client	WHA Utilities and Power Public Company Limited	Date Reported	Mar 18, 2026
	27 Moo 2, Tambon Phana Nakhon, Amphoe Nakhon Phatham, Rayong, Thailand, 21100	Report Number	RA2802119-AC
Project	WHA Rayong 36		
Project Location	Silverspark Development (Thailand) Co., Ltd., J12, WWT_WHARayong36_013_2567		
Sample Number	RA2802119-001		
Sampled Date	Mar 10, 2026 10:00 AM		
Sample Name	Wastewater		
Sampling Site	Silverspark Development (Thailand) Co., Ltd.		
Contract ID	WWT_WHARayong36_013_2567		
Plot	J.12		
Date of Analysis	Mar 11, 2026		
Sampled by	Patchanon Inpruk Wanayoo Chiraphaler		
Condition of Sample	1x 500mL Plastic Bottle, 1x Cyanide, 1x Plastic bottle - Preserved with H2SO4, 1x Plastic Bottle - Preserved with Zinc Acetate and NaOH, 1x Oil & Grease, 1x Logsheet/ data, 1x Plastic Bottle - Preserved with HNO3, 2x Amber Glass Bottle- Unpreserved, 1x Plastic Bottle - Preserved with NaOH, 2x 1L Plastic Bottle, 1x 500mL Plastic bottle - Preserved with H2SO4, refrigerated yellow, strong odour, lots of solids, highly turbid		
Physical Properties			
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	
EN10043	Bangkok	Based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5540 IL C	
EN10253	Rayong	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500-F (D)	
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

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Analysis Report

Work Order	RA2801033	Date Received	Feb 09, 2026
Client	WHA Utilities and Power Public Company Limited	Date Reported	Feb 16, 2026
	27 Moo 2, Tambon Phana Nakhon, Amphoe Nakhon Phatham, Rayong, Thailand, 21100	Report Number	RA2801033-AA
Project	WHA Rayong 36		
Project Location	TAWAY Electric Company Limited, J.08, WWT_WHARayong36_004_2567		
Sample Number	RA2801033-001		
Sampled Date	Feb 09, 2026 10:32 AM		
Sample Name	Wastewater		
Sampling Site	TAWAY Electric Company Limited		
Contract ID	WWT_WHARayong36_004_2567		
Plot	J.08		
Date of Analysis	Feb 09, 2026		
Sampled by	Wanayoo Chiraphaler (1-323-4-0020)		
Condition of Sample	1x 500mL Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet/ data, 1x 1L Plastic Bottle, refrigerated yellow, some odour, some solid, no turbid		
Physical Properties			
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	
EN10020	Rayong	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	
EN10044	Rayong	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (C)	
EN10046	Rayong	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	
EN10048	Rayong	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	
EN10097	Rayong	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	
EN10100	Rayong	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	
EN10102	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	RA3802119	Date Received	Mar 10, 2026
Client	WHA Utilities and Power Public Company Limited	Date Reported	Mar 18, 2026
	27 Moo 2, Tambon Phana Nakhon, Amphoe Nakhon Phathamni, Rayong, Thailand, 21100	Report Number	RA2602119-AA
Project	WHA Rayong 36		
Project Location	Silverspark Development (Thailand) Co., Ltd., J12, WWT_WHARayong36_013_2567		
Sample Number	RA2602119-001		
Sampled Date	Mar 10, 2026 10:00 AM		
Sample Name	Wastewater		
Sampling Site	Silverspark Development (Thailand) Co., Ltd.		
Contract ID	WWT_WHARayong36_013_2567		
Plot	J12		
Date of Analysis	Mar 10, 2026		
Sampled by	Patchanon Inpruk (+204-9-0197) Wananyoo Chiraphalee (+323-9-0020)		
Condition of Sample	1x 500mL Plastic Bottle - 1x Cyanide - 1x Plastic Bottle - Preserved with H2SO4 - 1x Plastic Bottle - Preserved with Zinc Acetate and NaOH - 1x Oil & Grease - 1x Logsheet/ data - 1x Plastic Bottle - Preserved with HClO3 - 2x Amber Glass Bottle - Unpreserved - 1x Plastic Bottle - Preserved with NaOH - 2x 1L Plastic Bottle - 1x 500mL Plastic bottle - Preserved with H2SO4, refrigerated yellow, strong odour, lots of solids, highly turbid		

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
ME0003	Rayong	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, Calculated APHA 3120 Calculation
ME0005	Rayong	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3112 (B)
ME0008	Rayong	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3500-Cr (B)

— END OF REPORT —

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Analysis Report

Work Order	RA3802119	Date Received	Mar 10, 2026
Client	WHA Utilities and Power Public Company Limited	Date Reported	Mar 18, 2026
	27 Moo 2, Tambon Phana Nakhon, Amphoe Nakhon Phathamni, Rayong, Thailand, 21100	Report Number	RA2602119-AB
Project	WHA Rayong 36		
Project Location	Silverspark Development (Thailand) Co., Ltd., J12, WWT_WHARayong36_013_2567		
Sample Number	RA2602119-001		
Sampled Date	Mar 10, 2026 10:00 AM		
Sample Name	Wastewater		
Sampling Site	Silverspark Development (Thailand) Co., Ltd.		
Contract ID	WWT_WHARayong36_013_2567		
Plot	J12		
Date of Analysis	Mar 13, 2026		
Sampled by	Patchanon Inpruk (+204-9-0197) Wananyoo Chiraphalee (+323-9-0020)		
Condition of Sample	1x 500mL Plastic Bottle - 1x Cyanide - 1x Plastic Bottle - Preserved with H2SO4 - 1x Plastic Bottle - Preserved with Zinc Acetate and NaOH - 1x Oil & Grease - 1x Logsheet/ data - 1x Plastic Bottle - Preserved with HClO3 - 2x Amber Glass Bottle - Unpreserved - 1x Plastic Bottle - Preserved with NaOH - 2x 1L Plastic Bottle - 1x 500mL Plastic bottle - Preserved with H2SO4, refrigerated yellow, strong odour, lots of solids, highly turbid		

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Pesticides - Organochlorine							
Endrin	µg/L	0.01	0.02	Not Detected	Not Detected	E10069	Bangkok
gamma-BHC - (lindane)	µg/L	0.01	0.02	Not Detected	Not Detected	E10069	Bangkok
Heptachlor epoxide	µg/L	0.01	0.02	Not Detected	Not Detected	E10069	Bangkok
Methoxychlor	µg/L	0.01	0.02	Not Detected	Not Detected	E10069	Bangkok
Heptachlor	µg/L	0.01	0.02	Not Detected	Not Detected	E10069	Bangkok

Guideline: Environmental Impact Assessment Report of WHA Rayong 36 Industrial Estate

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

- Key
- LOD: Limit of Detection
 - LOQ: 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
E10069	Bangkok	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 6630 D, part 6410 B

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ALS Laboratory Group (Thailand) Co., Ltd. Bangkok Life Sciences

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Analysis Report

Work Order	RA3802119	Date Received	Mar 10, 2026
Client	WHA Utilities and Power Public Company Limited	Date Reported	Mar 18, 2026
	27 Moo 2, Tambon Phana Nakhon, Amphoe Nakhon Phathamni, Rayong, Thailand, 21100	Report Number	RA2602119-AB
Project	WHA Rayong 36		
Project Location	Silverspark Development (Thailand) Co., Ltd., J12, WWT_WHARayong36_013_2567		
Sample Number	RA2602119-001		
Sampled Date	Mar 10, 2026 10:00 AM		
Sample Name	Wastewater		
Sampling Site	Silverspark Development (Thailand) Co., Ltd.		
Contract ID	WWT_WHARayong36_013_2567		
Plot	J12		
Date of Analysis	Mar 13, 2026		
Sampled by	Patchanon Inpruk (+204-9-0197) Wananyoo Chiraphalee (+323-9-0020)		
Condition of Sample	1x 500mL Plastic Bottle - 1x Cyanide - 1x Plastic Bottle - Preserved with H2SO4 - 1x Plastic Bottle - Preserved with Zinc Acetate and NaOH - 1x Oil & Grease - 1x Logsheet/ data - 1x Plastic Bottle - Preserved with HClO3 - 2x Amber Glass Bottle - Unpreserved - 1x Plastic Bottle - Preserved with NaOH - 2x 1L Plastic Bottle - 1x 500mL Plastic bottle - Preserved with H2SO4, refrigerated yellow, strong odour, lots of solids, highly turbid		

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Pesticides - Organochlorine							
2,4-DDD	µg/L	0.01	0.02	Not Detected	Not Detected	E10069	Bangkok
2,4-DDE	µg/L	0.01	0.02	Not Detected	Not Detected	E10069	Bangkok
2,4-DDT	µg/L	0.01	0.02	Not Detected	Not Detected	E10069	Bangkok
4,4-DDD	µg/L	0.01	0.02	Not Detected	Not Detected	E10069	Bangkok
4,4-DDE	µg/L	0.01	0.02	Not Detected	Not Detected	E10069	Bangkok
4,4-DDT	µg/L	0.01	0.02	Not Detected	Not Detected	E10069	Bangkok
Aldrin	µg/L	0.01	0.02	Not Detected	Not Detected	E10069	Bangkok
alpha-BHC	µg/L	0.01	0.02	Not Detected	Not Detected	E10069	Bangkok
beta-BHC	µg/L	0.01	0.02	Not Detected	Not Detected	E10069	Bangkok
Chlordane	µg/L	0.01	0.04	Not Detected	Not Detected	E10069	Bangkok
delta-BHC	µg/L	0.01	0.02	Not Detected	Not Detected	E10069	Bangkok
Dieldrin	µg/L	0.01	0.02	Not Detected	Not Detected	E10069	Bangkok
Endosulfan I (alpha isomer)	µg/L	0.01	0.02	Not Detected	Not Detected	E10069	Bangkok
Endosulfan II (beta isomer)	µg/L	0.01	0.02	Not Detected	Not Detected	E10069	Bangkok
Endrin aldehyde	µg/L	0.01	0.02	Not Detected	Not Detected	E10069	Bangkok

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Analysis Report

Work Order	RA3802119	Date Received	Mar 10, 2026
Client	WHA Utilities and Power Public Company Limited	Date Reported	Mar 18, 2026
	27 Moo 2, Tambon Phana Nakhon, Amphoe Nakhon Phathamni, Rayong, Thailand, 21100	Report Number	RA2602119-AB
Project	WHA Rayong 36		
Project Location	Silverspark Development (Thailand) Co., Ltd., J12, WWT_WHARayong36_013_2567		
Sample Number	RA2602119-001		
Sampled Date	Mar 10, 2026 10:00 AM		
Sample Name	Wastewater		
Sampling Site	Silverspark Development (Thailand) Co., Ltd.		
Contract ID	WWT_WHARayong36_013_2567		
Plot	J12		
Date of Analysis	Mar 13, 2026		
Sampled by	Patchanon Inpruk (+204-9-0197) Wananyoo Chiraphalee (+323-9-0020)		
Condition of Sample	1x 500mL Plastic Bottle - 1x Cyanide - 1x Plastic Bottle - Preserved with H2SO4 - 1x Plastic Bottle - Preserved with Zinc Acetate and NaOH - 1x Oil & Grease - 1x Logsheet/ data - 1x Plastic Bottle - Preserved with HClO3 - 2x Amber Glass Bottle - Unpreserved - 1x Plastic Bottle - Preserved with NaOH - 2x 1L Plastic Bottle - 1x 500mL Plastic bottle - Preserved with H2SO4, refrigerated yellow, strong odour, lots of solids, highly turbid		

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
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— END OF REPORT —

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Analysis Report

Work Order	RA2602119	Date Received	Mar 10, 2026				
Client	WHA Utilities and Power Public Company Limited	Date Reported	Mar 18, 2026				
	27 Moo 2, Tambon Phana Nakhon, Amphoe Nakhon Phathamni, Rayong,	Report Number	RA2602119-AA				
	Thailand, 21100						
Project	WHA Rayong 36						
Project Location	Silverspark Development (Thailand) Co., Ltd., J.12, _WWT_WHARayong36_013_2567						
Sample Number	RA2602119-001						
Sampled Date	Mar 10, 2026 10:00 AM						
Sample Name	Wastewater						
Sampling Site	Silverspark Development (Thailand) Co., Ltd.						
Contract ID	WWT_WHARayong36_013_2567						
Plot	J.12						
Date of Analysis	Mar 10, 2026						
Sampled by	Patchanon Inpiak (+204-9-0197)						
	Wananyoo Chiraphalee (+323-9-0020)						
Condition of Sample	1x 500mL Plastic Bottle, 1x Cyanide, 1x Plastic bottle - Preserved with H2SO4, 1x Plastic Bottle - Preserved with Zinc Acetate and NaOH, 1x Oil & Grease, 1x Logsheet/ data, 1x Plastic Bottle - Preserved with HNO3, 2x Amber Glass Bottle- Unpreserved, 1x Plastic Bottle - Preserved with NaOH, 2x 1L Plastic Bottle, 1x 500mL Plastic bottle - Preserved with H2SO4, refrigerated yellow, strong odour, lots of solids, highly turbid						
Physical Properties							
Analytical Results							
Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	51.4	≤200	E10044	Rayong
COD	mg/L	1.5	25	233	≤400	E10046	Rayong
Cyanide as HCN	mg/L	0.001	0.005	0.006	≤0.2	E10005	Rayong
Formaldehyde	mg/L	0.03	0.1	0.1	≤1	E10010	Rayong
Oil & Grease	mg/L	-	3	3	≤10	E10048	Rayong
Phenol	mg/L	0.005	0.010	0.115	≤1	E10051	Rayong
Residual Free Chlorine *	mg/L	-	0.1	<0.1	≤1	E10027	Rayong
Sulfides *	mg/L	-	0.5	2.7	≤1	E10032	Rayong
Total Kjeldahl Nitrogen as N	mg/L	-	1.0	158	≤100	E10026	Rayong
Metals and Major Cations							
Hexavalent Chromium *	mg/L	0.003	0.01	Not Detected	≤0.25	ME0090	Rayong
Metals and Major Cations - Total							
Arsenic *	mg/L	0.002	0.005	Not Detected	≤0.25	ME0002	Rayong
Barium *	mg/L	0.002	0.005	0.105	≤1	ME0002	Rayong
Cadmium *	mg/L	0.001	0.002	Not Detected	≤0.03	ME0002	Rayong

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Analysis Report

Work Order	RA3802119	Date Received	Mar 10, 2026
Client	WHA Utilities and Power Public Company Limited 27 Moo 2, Tambon Phana Nakhon, Amphoe Nakhon Phathamni, Rayong, Thailand, 21100	Date Reported	Mar 18, 2026
Project	WHA Rayong 36	Report Number	RA2602119-AA
Project Location	Silverspark Development (Thailand) Co., Ltd., J12, _WWT_WHARayong36_013_2567		
Sample Number	RA2602119-001		
Sampled Date	Mar 10, 2026 10:00 AM		
Sample Name	Wastewater		
Sampling Site	Silverspark Development (Thailand) Co., Ltd.		
Contract ID	WWT_WHARayong36_013_2567		
Plot	J.12		
Date of Analysis	Mar 10, 2026		
Sampled by	Patchanon Inpiak (+204-9-0197) Wananyoo Chiraphalee (+323-9-0020)		
Condition of Sample	1x 500mL Plastic Bottle, 1x Cyanide, 1x Plastic Bottle - Preserved with H2SO4, 1x Plastic Bottle - Preserved with Zinc Acetate and NaOH, 1x Oil & Grease, 1x Loghead/ data, 1x Plastic Bottle - Preserved with HNO3, 2x Amber Glass Bottle - Unpreserved, 1x Plastic Bottle - Preserved with NaOH, 2x 1L Plastic Bottle, 1x 500mL Plastic bottle - Preserved with H2SO4, refrigerated yellow, strong odour, lots of solids, highly turbid		
Physical Properties			
Guideline	Environmental Impact Assessment Report of WHA Rayong 36 Industrial Estate		
Comment	Sampling is not included in scope of accreditation ISO/IEC 17025		
Key	o LOD : Limit of Detection o "<" : Lower than LOQ (Limit of Quantification) / LOR (Limit of Reporting) o Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025		

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Analysis Report

Work Order	RA2602119	Date Received	Mar 10, 2026				
Client	WHA Utilities and Power Public Company Limited	Date Reported	Mar 18, 2026				
	27 Moo 2, Tambon Phana Nakhon, Amphoe Nakhon Phathamni, Rayong, Thailand, 21100	Report Number	RA2602119-AA				
Project	WHA Rayong 36						
Project Location	Silverspark Development (Thailand) Co., Ltd., J12, _WWT_WHARayong36_013_2567						
Sample Number	RA2602119-001						
Sampled Date	Mar 10, 2026 10:00 AM						
Sample Name	Wastewater						
Sampling Site	Silverspark Development (Thailand) Co., Ltd.						
Contract ID	WWT_WHARayong36_013_2567						
Plot	J.12						
Date of Analysis	Mar 10, 2026						
Sampled by	Patchanon Inpiak (+204-9-0197) Wananyoo Chiraphalee (+323-9-0020)						
Condition of Sample	1x 500mL Plastic Bottle, 1x Cyanide, 1x Plastic Bottle - Preserved with H2SO4, 1x Plastic Bottle - Preserved with Zinc Acetate and NaOH, 1x Oil & Grease, 1x Logsheet/ data, 1x Plastic Bottle - Preserved with HNO3, 2x Amber Glass Bottle - Unpreserved, 1x Plastic Bottle - Preserved with NaOH, 2x 1L Plastic Bottle, 1x 500mL Plastic bottle - Preserved with H2SO4, refrigerated yellow, strong odour, lots of solids, highly turbid						
Physical Properties							
Analytical Results							
Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Metals and Major Cations - Total							
Copper *	mg/L	0.005	0.01	0.03	≤2	ME0002	Rayong
Lead *	mg/L	0.002	0.005	<0.005	≤0.2	ME0002	Rayong
Manganese *	mg/L	0.001	0.002	0.078	≤5	ME0002	Rayong
Mercury *	mg/L	0.0001	0.0005	Not Detected	≤0.005	ME0005	Rayong
Nickel *	mg/L	0.002	0.005	0.014	≤1	ME0002	Rayong
Selenium *	mg/L	0.005	0.01	Not Detected	≤0.02	ME0002	Rayong
Trivalent Chromium *	mg/L	-	0.01	<0.01	≤0.75	ME0003	Rayong
Zinc *	mg/L	0.005	0.01	0.16	≤5	ME0002	Rayong
Physical and Aggregate Properties							
Color (at Original pH)	ADMI	-	5	112	≤600	EN6080	Rayong
Color (at pH 7.0)	ADMI	-	5	109	≤600	EN6080	Rayong
pH - Field *	pH Unit	-	1.0	7.4	6-9	EN6020	Rayong
Temperature *	°C	-	-	31.0	≤40	EN6097	Rayong
Total Dissolved Solids at 180°C	mg/L	-	5	416	≤3000	EN6100	Rayong
Total Suspended Solids	mg/L	-	5	22	≤200	EN6102	Rayong

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Analysis Report

Work Order	RA2602119	Date Received	Mar 10, 2026
Client	WHA Utilities and Power Public Company Limited 27 Moo 2, Tambon Phana Nakhon, Amphoe Nakhon Phatthana, Rayong, Thailand, 21100	Date Reported	Mar 18, 2026
		Report Number	RA2602119-AA
Project	WHA Rayong 36		
Project Location	Silverspark Development (Thailand) Co., Ltd., J_12_ WWT_WHARayong36_013_2567		
Sample Number	RA2602119-001		
Sampled Date	Mar 10, 2026 10:00 AM		
Sample Name	Wastewater		
Sampling Site	Silverspark Development (Thailand) Co., Ltd.		
Contract ID	WWT_WHARayong36_013_2567		
Plot	J.12		
Date of Analysis	Mar 10, 2026		
Sampled by	Patchanon Inpiak (+204-9-0197) Wananyoo Chiraphalee (+323-9-0020)		
Condition of Sample	1x 500mL Plastic Bottle, 1x Cyanide, 1x Plastic bottle - Preserved with H2SO4, 1x Plastic Bottle - Preserved with Zinc Acetate and NaOH, 1x Oil & Grease, 1x Loghead/ data, 1x Plastic Bottle - Preserved with HNO3, 2x Amber Glass Bottle- Unpreserved, 1x Plastic Bottle - Preserved with NaOH, 2x 1L Plastic Bottle, 1x 500mL Plastic bottle - Preserved with H2SO4, refrigerated yellow, strong odour, lots of solids, highly turbid		
Physical Properties			
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	
EN6005	Rayong	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2024, part 4500 - CN (C), E	
EN6010	Rayong	Wastewater analysis manual, Environmental Engineering Association of Thailand, 4th ed., 2004	
EN6020	Rayong	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	
EN6027	Rayong	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - Cl (F)	
EN6032	Rayong	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - S2 (C, F)	
EN6044	Rayong	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)	
EN6048	Rayong	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	
EN6048	Rayong	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	
EN6051	Rayong	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5530 B, D	
EN6080	Rayong	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2120 F	
EN6097	Rayong	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	
EN6100	Rayong	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	
EN6102	Rayong	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	
EN6226	Rayong	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500-Nitrg (C), part 1840 (D)	

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TESTING
No.0042

Analysis Report

Work Order : RA2801030
Client : WHA Utilities and Power Public Company Limited
27 Moo 2, Tambon Phana Nakhon, Amphoe Nakhon Phatham, Rayong,
Thailand, 21100
Project : WHA Rayong 36
Project Location : QUING INDUSTRY (THAILAND) CO., LTD., J.10_WWT_WHARayong36_001_2568

Sample Number : RA2801030-001
Sampled Date : Feb 09, 2026 09:55 AM
Sample Name : Wastewater
Sampling Site : QUING INDUSTRY (THAILAND) CO., LTD.
Contract ID : WWT_WHARayong36_001_2568
Plot : J.10
Date of Analysis : Feb 09, 2026
Sampled by : Wanayoo Chirphakae (1-323-4-0020)
Condition of Sample : 1x 500mL Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet/ data, 1x 1L Plastic Bottle, refrigerated
Physical Properties : yellow, strong odour, some solids, turbid

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	31.4	<200	E10044	Rayong
COD	mg/L	1.5	25	119	<400	E10046	Rayong
Oil & Grease	mg/L	-	3	6	<10	E10048	Rayong
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	8.1	6-9	E10020	Rayong
Temperature *	°C	-	-	29.1	<40	E10097	Rayong
Total Dissolved Solids at 180°C	mg/L	-	5	252	<3000	E10100	Rayong
Total Suspended Solids	mg/L	-	5	13	<200	E10102	Rayong

Guideline : Environmental Impact Assessment Report of WHA Rayong 36 Industrial Estate

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

Key :

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

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TESTING
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Analysis Report

Work Order : RA2801031
Client : WHA Utilities and Power Public Company Limited
27 Moo 2, Tambon Phana Nakhon, Amphoe Nakhon Phatham, Rayong,
Thailand, 21100
Project : WHA Rayong 36
Project Location : QUANTUM SPT COMPANY LIMITED J.31_WWT_WHARayong36_005_2567

Sample Number : RA2801031-001
Sampled Date : Feb 09, 2026 10:43 AM
Sample Name : Wastewater
Sampling Site : QUANTUM SPT COMPANY LIMITED
Contract ID : WWT_WHARayong36_005_2567
Plot : J.31
Date of Analysis : Feb 09, 2026
Sampled by : Wanayoo Chirphakae (1-323-4-0020)
Condition of Sample : 1x 500mL Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet/ data, 1x 1L Plastic Bottle, refrigerated
Physical Properties : yellow, strong odour, some solid, no turbid

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	25.8	<200	E10044	Rayong
COD	mg/L	1.5	25	67	<400	E10046	Rayong
Oil & Grease	mg/L	-	3	6	<10	E10048	Rayong
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.3	6-9	E10020	Rayong
Temperature *	°C	-	-	29.5	<40	E10097	Rayong
Total Dissolved Solids at 180°C	mg/L	-	5	294	<3000	E10100	Rayong
Total Suspended Solids	mg/L	-	5	9	<200	E10102	Rayong

Guideline : Environmental Impact Assessment Report of WHA Rayong 36 Industrial Estate

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

Key :

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

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Analysis Report

Work Order : RA2801030
Client : WHA Utilities and Power Public Company Limited
27 Moo 2, Tambon Phana Nakhon, Amphoe Nakhon Phatham, Rayong,
Thailand, 21100
Project : WHA Rayong 36
Project Location : QUING INDUSTRY (THAILAND) CO., LTD., J.10_WWT_WHARayong36_001_2568

Sample Number : RA2801030-001
Sampled Date : Feb 09, 2026 09:55 AM
Sample Name : Wastewater
Sampling Site : QUING INDUSTRY (THAILAND) CO., LTD.
Contract ID : WWT_WHARayong36_001_2568
Plot : J.10
Date of Analysis : Feb 09, 2026
Sampled by : Wanayoo Chirphakae (1-323-4-0020)
Condition of Sample : 1x 500mL Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet/ data, 1x 1L Plastic Bottle, refrigerated
Physical Properties : yellow, strong odour, some solids, turbid

Method	Testing Lab	Method Descriptions
E10020	Rayong	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
E10044	Rayong	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (C)
E10046	Rayong	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
E10048	Rayong	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
E10097	Rayong	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 2550 B
E10100	Rayong	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 2540 C
E10102	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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ALS Laboratory Group (Thailand) Co., Ltd. Rayong Life Sciences

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TESTING
No.0042

Analysis Report

Work Order : RA2801031
Client : WHA Utilities and Power Public Company Limited
27 Moo 2, Tambon Phana Nakhon, Amphoe Nakhon Phatham, Rayong,
Thailand, 21100
Project : WHA Rayong 36
Project Location : QUANTUM SPT COMPANY LIMITED J.31_WWT_WHARayong36_005_2567

Sample Number : RA2801031-001
Sampled Date : Feb 09, 2026 10:43 AM
Sample Name : Wastewater
Sampling Site : QUANTUM SPT COMPANY LIMITED
Contract ID : WWT_WHARayong36_005_2567
Plot : J.31
Date of Analysis : Feb 09, 2026
Sampled by : Wanayoo Chirphakae (1-323-4-0020)
Condition of Sample : 1x 500mL Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet/ data, 1x 1L Plastic Bottle, refrigerated
Physical Properties : yellow, strong odour, some solid, no turbid

Method	Testing Lab	Method Descriptions
E10020	Rayong	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
E10044	Rayong	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (C)
E10046	Rayong	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
E10048	Rayong	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
E10097	Rayong	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 2550 B
E10100	Rayong	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 2540 C
E10102	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 : RA2801027
Client : WHA Utilities and Power Public Company Limited
27 Moo 2, Tambon Phana Nakhon, Amphoe Nakhon Phatham, Rayong,
Thailand, 21100
Project : WHA Rayong 36
Project Location : BYD AUTO (THAILAND) CO.,LTD.,J32_WWT_WHARayong36_011_2567

Sample Number : RA2801027-001
Sampled Date : Feb 09, 2026 01:40 PM
Sample Name : Wastewater - Point No.1
Sampling Site : BYD AUTO (THAILAND) CO.,LTD.
Contract ID : WWT_WHARayong36_011_2567
Plot : J32
Date of Analysis : Feb 09, 2026
Sampled by : Wanayoo Chirphakae (1-323-4-0020)
Condition of Sample : 1x 500mL Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet/data, 1x 1L Plastic Bottle, refrigerated
Physical Properties : yellow, strong odour, some solids, turbid

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	58.8	<200	E10044	Rayong
COD	mg/L	1.5	25	200	<400	E10046	Rayong
Oil & Grease	mg/L	-	3	10	<10	E10048	Rayong
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.7	6-9	E10020	Rayong
Temperature *	°C	-	-	28.6	<40	E10097	Rayong
Total Dissolved Solids at 180°C	mg/L	-	5	348	<3000	E10100	Rayong
Total Suspended Solids	mg/L	-	5	12	<200	E10102	Rayong

Guideline : Environmental Impact Assessment Report of WHA Rayong 36 Industrial Estate

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

Key :

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

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Analysis Report

Work Order : RA2801029
Client : WHA Utilities and Power Public Company Limited
27 Moo 2, Tambon Phana Nakhon, Amphoe Nakhon Phatham, Rayong,
Thailand, 21100
Project : WHA Rayong 36
Project Location : Faurecia Automotive Parts (Thailand) Co., Ltd.,J11-2_WWT_WHARayong36_014_2567

Sample Number : RA2801029-001
Sampled Date : Feb 09, 2026 10:21 AM
Sample Name : Wastewater
Sampling Site : Faurecia Automotive Parts (Thailand) Co., Ltd.
Contract ID : WWT_WHARayong36_014_2567
Plot : J11-2
Date of Analysis : Feb 09, 2026
Sampled by : Wanayoo Chirphakae (1-323-4-0020)
Condition of Sample : 1x 500mL Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet/data, 1x 1L Plastic Bottle, refrigerated
Physical Properties : yellow, strong odour, lots of solids, highly turbid

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	155	<200	E10044	Rayong
COD	mg/L	1.5	25	380	<400	E10046	Rayong
Oil & Grease	mg/L	-	3	9	<10	E10048	Rayong
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.3	6-9	E10020	Rayong
Temperature *	°C	-	-	28.6	<40	E10097	Rayong
Total Dissolved Solids at 180°C	mg/L	-	5	488	<3000	E10100	Rayong
Total Suspended Solids	mg/L	-	5	24	<200	E10102	Rayong

Guideline : Environmental Impact Assessment Report of WHA Rayong 36 Industrial Estate

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

Key :

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

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Analysis Report

Work Order : RA2801027
Client : WHA Utilities and Power Public Company Limited
27 Moo 2, Tambon Phana Nakhon, Amphoe Nakhon Phatham, Rayong,
Thailand, 21100
Project : WHA Rayong 36
Project Location : BYD AUTO (THAILAND) CO.,LTD.,J32_WWT_WHARayong36_011_2567

Sample Number : RA2801027-001
Sampled Date : Feb 09, 2026 01:40 PM
Sample Name : Wastewater - Point No.1
Sampling Site : BYD AUTO (THAILAND) CO.,LTD.
Contract ID : WWT_WHARayong36_011_2567
Plot : J32
Date of Analysis : Feb 09, 2026
Sampled by : Wanayoo Chirphakae (1-323-4-0020)
Condition of Sample : 1x 500mL Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet/data, 1x 1L Plastic Bottle, refrigerated
Physical Properties : yellow, strong odour, some solids, turbid

Method	Testing Lab	Method Descriptions
E10020	Rayong	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
E10044	Rayong	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (C)
E10046	Rayong	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
E10048	Rayong	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
E10097	Rayong	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 2550 B
E10100	Rayong	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 2540 C
E10102	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 : RA2801029
Client : WHA Utilities and Power Public Company Limited
27 Moo 2, Tambon Phana Nakhon, Amphoe Nakhon Phatham, Rayong,
Thailand, 21100
Project : WHA Rayong 36
Project Location : Faurecia Automotive Parts (Thailand) Co., Ltd.,J11-2_WWT_WHARayong36_014_2567

Sample Number : RA2801029-001
Sampled Date : Feb 09, 2026 10:21 AM
Sample Name : Wastewater
Sampling Site : Faurecia Automotive Parts (Thailand) Co., Ltd.
Contract ID : WWT_WHARayong36_014_2567
Plot : J11-2
Date of Analysis : Feb 09, 2026
Sampled by : Wanayoo Chirphakae (1-323-4-0020)
Condition of Sample : 1x 500mL Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet/data, 1x 1L Plastic Bottle, refrigerated
Physical Properties : yellow, strong odour, lots of solids, highly turbid

Method	Testing Lab	Method Descriptions
E10020	Rayong	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
E10044	Rayong	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (C)
E10046	Rayong	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
E10048	Rayong	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
E10097	Rayong	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 2550 B
E10100	Rayong	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 2540 C
E10102	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 : RA2801026
Client : WHA Utilities and Power Public Company Limited
27 Moo 2, Tambon Phana Nakhon, Amphoe Nakhon Phatham, Rayong,
Thailand, 21100
Project : WHA Rayong 36
Project Location : BYD AUTO (THAILAND) CO.,LTD.,J29_WWT_WHARayong36_006_2567

Sample Number : RA2801026-001
Sampled Date : Feb 09, 2026 01:32 PM
Sample Name : Wastewater - Point No.2
Sampling Site : BYD AUTO (THAILAND) CO.,LTD.
Contract ID : WWT_WHARayong36_006_2567
Plot : J29
Date of Analysis : Feb 09, 2026
Sampled by : Wanayoo Chirphakae (1-323-4-0020)
Condition of Sample : 1x 500mL Plastic Bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet/data, 1x 1L Plastic Bottle, refrigerated

Physical Properties : yellow, strong odour, some solid, highly turbid

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	59.6	<200	E10044	Rayong
COD	mg/L	1.5	25	262	<400	E10046	Rayong
Oil & Grease	mg/L	-	3	7	<10	E10048	Rayong
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.4	6-9	E10020	Rayong
Temperature *	°C	-	-	28.5	<40	E10097	Rayong
Total Dissolved Solids at 180°C	mg/L	-	5	240	<3000	E10100	Rayong
Total Suspended Solids	mg/L	-	5	34	<200	E10102	Rayong

Guideline : Environmental Impact Assessment Report of WHA Rayong 36 Industrial Estate
Comment : Sampling is not included in scope of accreditation ISO/IEC 17025
Key :

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

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Analysis Report

Work Order : RA2801032
Client : WHA Utilities and Power Public Company Limited
27 Moo 2, Tambon Phana Nakhon, Amphoe Nakhon Phatham, Rayong,
Thailand, 21100
Project : WHA Rayong 36
Project Location : T.C. PHARMACEUTICAL INDUSTRIES CO., LTD.,J16_WWT_WHARayong36_002_2567

Sample Number : RA2801032-001
Sampled Date : Feb 09, 2026 09:50 AM
Sample Name : Wastewater
Sampling Site : T.C. PHARMACEUTICAL INDUSTRIES CO., LTD.
Contract ID : WWT_WHARayong36_002_2567
Plot : J16
Date of Analysis : Feb 09, 2026
Sampled by : Wanayoo Chirphakae (1-323-4-0020)
Condition of Sample : 1x 500mL Plastic Bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet/data, 1x 1L Plastic Bottle, refrigerated

Physical Properties : yellow, some odour, no solids, no turbid

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	17.7	<200	E10044	Rayong
COD	mg/L	1.5	25	40	<400	E10046	Rayong
Oil & Grease	mg/L	-	3	<3	<10	E10048	Rayong
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.7	6-9	E10020	Rayong
Temperature *	°C	-	-	29.7	<40	E10097	Rayong
Total Dissolved Solids at 180°C	mg/L	-	5	198	<3000	E10100	Rayong
Total Suspended Solids	mg/L	-	5	<5	<200	E10102	Rayong

Guideline : Environmental Impact Assessment Report of WHA Rayong 36 Industrial Estate
Comment : Sampling is not included in scope of accreditation ISO/IEC 17025
Key :

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

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Analysis Report

Work Order : RA2801026
Client : WHA Utilities and Power Public Company Limited
27 Moo 2, Tambon Phana Nakhon, Amphoe Nakhon Phatham, Rayong,
Thailand, 21100
Project : WHA Rayong 36
Project Location : BYD AUTO (THAILAND) CO.,LTD.,J29_WWT_WHARayong36_006_2567

Sample Number : RA2801026-001
Sampled Date : Feb 09, 2026 01:32 PM
Sample Name : Wastewater - Point No.2
Sampling Site : BYD AUTO (THAILAND) CO.,LTD.
Contract ID : WWT_WHARayong36_006_2567
Plot : J29
Date of Analysis : Feb 09, 2026
Sampled by : Wanayoo Chirphakae (1-323-4-0020)
Condition of Sample : 1x 500mL Plastic Bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet/data, 1x 1L Plastic Bottle, refrigerated

Physical Properties : yellow, strong odour, some solid, highly turbid

Method	Testing Lab	Method Descriptions
E10020	Rayong	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
E10044	Rayong	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (C)
E10046	Rayong	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
E10048	Rayong	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
E10097	Rayong	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 2550 B
E10100	Rayong	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 2540 C
E10102	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 : RA2801032
Client : WHA Utilities and Power Public Company Limited
27 Moo 2, Tambon Phana Nakhon, Amphoe Nakhon Phatham, Rayong,
Thailand, 21100
Project : WHA Rayong 36
Project Location : T.C. PHARMACEUTICAL INDUSTRIES CO., LTD.,J16_WWT_WHARayong36_002_2567

Sample Number : RA2801032-001
Sampled Date : Feb 09, 2026 09:50 AM
Sample Name : Wastewater
Sampling Site : T.C. PHARMACEUTICAL INDUSTRIES CO., LTD.
Contract ID : WWT_WHARayong36_002_2567
Plot : J16
Date of Analysis : Feb 09, 2026
Sampled by : Wanayoo Chirphakae (1-323-4-0020)
Condition of Sample : 1x 500mL Plastic Bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet/data, 1x 1L Plastic Bottle, refrigerated

Physical Properties : yellow, some odour, no solids, no turbid

Method	Testing Lab	Method Descriptions
E10020	Rayong	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
E10044	Rayong	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (C)
E10046	Rayong	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
E10048	Rayong	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
E10097	Rayong	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 2550 B
E10100	Rayong	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 2540 C
E10102	Rayong	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

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TESTING
No.0042

Analysis Report

Work Order : RA2801024
Client : WHA Utilities and Power Public Company Limited
27 Moo 2, Tambon Phana Nakhon, Amphoe Nakhon Phathamni, Rayong,
Thailand, 21100
Project : WHA Rayong 36
Project Location : BYD AUTO (THAILAND) CO.,LTD.,J19D,_WWT_WHARayong36_008_2567

Sample Number : RA2801024-001
Sampled Date : Feb 09, 2026 02:20 PM
Sample Name : Wastewater : Point No.6
Sampling Site : BYD AUTO (THAILAND) CO.,LTD.
Contract ID : WWT_WHARayong36_008_2567
Plot : J19D
Date of Analysis : Feb 09, 2026
Sampled by : Wanayoo Chiraphak (1-323-4-0020)
Condition of Sample : 1x 500mL Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet/data, 1x 1L Plastic Bottle, refrigerated
Physical Properties : yellow, some odour, some solid, no turbid

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	26.4	<200	E10044	Rayong
COD	mg/L	1.5	25	74	<400	E10046	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	E10048	Rayong
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.3	6-9	E10020	Rayong
Temperature *	°C	-	-	29.1	≤40	E10097	Rayong
Total Dissolved Solids at 180°C	mg/L	-	5	436	≤3000	E10100	Rayong
Total Suspended Solids	mg/L	-	5	19	≤200	E10102	Rayong

Guideline : Environmental Impact Assessment Report of WHA Rayong 36 Industrial Estate

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

Key :

- LOD : Limit of Detection
- * : Lower than LOQ (Limit of Quantification) / LOR (Limit of Reporting)
- Analyte(s) marked * are not included in scope of Accreditation ISO/IEC 17025

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ALS Laboratory Group (Thailand) Co.,Ltd. Rayong Life Sciences

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TESTING
No.0042

Analysis Report

Work Order : RA2801025
Client : WHA Utilities and Power Public Company Limited
27 Moo 2, Tambon Phana Nakhon, Amphoe Nakhon Phathamni, Rayong,
Thailand, 21100
Project : WHA Rayong 36
Project Location : BYD AUTO (THAILAND) CO.,LTD.,J28B,_WWT_WHARayong36_010_2567

Sample Number : RA2801025-001
Sampled Date : Feb 09, 2026 01:50 PM
Sample Name : Wastewater : Point No.3
Sampling Site : BYD AUTO (THAILAND) CO.,LTD.
Contract ID : WWT_WHARayong36_010_2567
Plot : J28B
Date of Analysis : Feb 09, 2026
Sampled by : Wanayoo Chiraphak (1-323-4-0020)
Condition of Sample : 1x 500mL Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet/data, 1x 1L Plastic Bottle, refrigerated
Physical Properties : yellow, some odour, some solid, no turbid

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	31.5	<200	E10044	Rayong
COD	mg/L	1.5	25	76	<400	E10046	Rayong
Oil & Grease	mg/L	-	3	3	≤10	E10048	Rayong
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.7	6-9	E10020	Rayong
Temperature *	°C	-	-	29.2	≤40	E10097	Rayong
Total Dissolved Solids at 180°C	mg/L	-	5	160	≤3000	E10100	Rayong
Total Suspended Solids	mg/L	-	5	10	≤200	E10102	Rayong

Guideline : Environmental Impact Assessment Report of WHA Rayong 36 Industrial Estate

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

Key :

- LOD : Limit of Detection
- * : Lower than LOQ (Limit of Quantification) / LOR (Limit of Reporting)
- Analyte(s) marked * are not included in scope of Accreditation ISO/IEC 17025

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

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TESTING
No.0042

Analysis Report

Work Order : RA2801024
Client : WHA Utilities and Power Public Company Limited
27 Moo 2, Tambon Phana Nakhon, Amphoe Nakhon Phathamni, Rayong,
Thailand, 21100
Project : WHA Rayong 36
Project Location : BYD AUTO (THAILAND) CO.,LTD.,J19D,_WWT_WHARayong36_008_2567

Sample Number : RA2801024-001
Sampled Date : Feb 09, 2026 02:20 PM
Sample Name : Wastewater : Point No.6
Sampling Site : BYD AUTO (THAILAND) CO.,LTD.
Contract ID : WWT_WHARayong36_008_2567
Plot : J19D
Date of Analysis : Feb 09, 2026
Sampled by : Wanayoo Chiraphak (1-323-4-0020)
Condition of Sample : 1x 500mL Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet/data, 1x 1L Plastic Bottle, refrigerated
Physical Properties : yellow, some odour, some solid, no turbid

Method	Testing Lab	Method Descriptions
E10020	Rayong	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
E10044	Rayong	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (C)
E10046	Rayong	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
E10048	Rayong	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
E10097	Rayong	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 2550 B
E10100	Rayong	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 2540 C
E10102	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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TESTING
No.0042

Analysis Report

Work Order : RA2801025
Client : WHA Utilities and Power Public Company Limited
27 Moo 2, Tambon Phana Nakhon, Amphoe Nakhon Phathamni, Rayong,
Thailand, 21100
Project : WHA Rayong 36
Project Location : BYD AUTO (THAILAND) CO.,LTD.,J28B,_WWT_WHARayong36_010_2567

Sample Number : RA2801025-001
Sampled Date : Feb 09, 2026 01:50 PM
Sample Name : Wastewater : Point No.3
Sampling Site : BYD AUTO (THAILAND) CO.,LTD.
Contract ID : WWT_WHARayong36_010_2567
Plot : J28B
Date of Analysis : Feb 09, 2026
Sampled by : Wanayoo Chiraphak (1-323-4-0020)
Condition of Sample : 1x 500mL Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet/data, 1x 1L Plastic Bottle, refrigerated
Physical Properties : yellow, some odour, some solid, no turbid

Method	Testing Lab	Method Descriptions
E10020	Rayong	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
E10044	Rayong	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (C)
E10046	Rayong	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
E10048	Rayong	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
E10097	Rayong	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 2550 B
E10100	Rayong	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 2540 C
E10102	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 : RA3801022
Client : WHA Utilities and Power Public Company Limited
27 Moo 2, Tambon Phana Nakhon, Amphoe Nakhon Phatham, Rayong,
Thailand, 21100
Project : WHA Rayong 36
Project Location : BYD AUTO (THAILAND) CO.,LTD.,J19C_WWT_WHARayong36_009_2567

Sample Number : RA3801022-001
Sample Date : Feb 09, 2026 02:05 PM
Sample Name : Wastewater : Point No.4
Sampling Site : BYD AUTO (THAILAND) CO.,LTD.
Contract ID : WWT_WHARayong36_009_2567
Plot : J19C
Date of Analysis : Feb 09, 2026
Sampled by : Wanayoo Chiraphak (1-323-4-0020)
Condition of Sample : 1x 500mL Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet/data, 1x 1L Plastic Bottle, refrigerated
Physical Properties : yellow, some odour, some solids, turbid

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	37.3	<200	E10044	Rayong
COD	mg/L	1.5	25	96	<400	E10046	Rayong
Oil & Grease	mg/L	-	3	3	≤10	E10048	Rayong
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	8.2	6-9	E10020	Rayong
Temperature *	°C	-	-	29.3	≤40	E10097	Rayong
Total Dissolved Solids at 180°C	mg/L	-	5	254	≤3000	E10100	Rayong
Total Suspended Solids	mg/L	-	5	24	≤200	E10102	Rayong

Guideline : Environmental Impact Assessment Report of WHA Rayong 36 Industrial Estate

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

Key :

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

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Analysis Report

Work Order : RA3801023
Client : WHA Utilities and Power Public Company Limited
27 Moo 2, Tambon Phana Nakhon, Amphoe Nakhon Phatham, Rayong,
Thailand, 21100
Project : WHA Rayong 36
Project Location : BYD AUTO (THAILAND) CO.,LTD.,J19D_WWT_WHARayong36_007_2567

Sample Number : RA3801023-001
Sample Date : Feb 09, 2026 02:15 PM
Sample Name : Wastewater : Point No.5
Sampling Site : BYD AUTO (THAILAND) CO.,LTD.
Contract ID : WWT_WHARayong36_007_2567
Plot : J19D
Date of Analysis : Feb 09, 2026
Sampled by : Wanayoo Chiraphak (1-323-4-0020)
Condition of Sample : 1x 500mL Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet/data, 1x 1L Plastic Bottle, refrigerated
Physical Properties : yellow, some odour, some solids, turbid

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	18.5	<200	E10044	Rayong
COD	mg/L	1.5	25	61	<400	E10046	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	E10048	Rayong
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.8	6-9	E10020	Rayong
Temperature *	°C	-	-	29.1	≤40	E10097	Rayong
Total Dissolved Solids at 180°C	mg/L	-	5	254	≤3000	E10100	Rayong
Total Suspended Solids	mg/L	-	5	5	≤200	E10102	Rayong

Guideline : Environmental Impact Assessment Report of WHA Rayong 36 Industrial Estate

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

Key :

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

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Analysis Report

Work Order : RA3801022
Client : WHA Utilities and Power Public Company Limited
27 Moo 2, Tambon Phana Nakhon, Amphoe Nakhon Phatham, Rayong,
Thailand, 21100
Project : WHA Rayong 36
Project Location : BYD AUTO (THAILAND) CO.,LTD.,J19C_WWT_WHARayong36_009_2567

Sample Number : RA3801022-001
Sample Date : Feb 09, 2026 02:05 PM
Sample Name : Wastewater : Point No.4
Sampling Site : BYD AUTO (THAILAND) CO.,LTD.
Contract ID : WWT_WHARayong36_009_2567
Plot : J19C
Date of Analysis : Feb 09, 2026
Sampled by : Wanayoo Chiraphak (1-323-4-0020)
Condition of Sample : 1x 500mL Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet/data, 1x 1L Plastic Bottle, refrigerated
Physical Properties : yellow, some odour, some solids, turbid

Method	Testing Lab	Method Descriptions
E10020	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
E10044	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (C)
E10046	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
E10048	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
E10097	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B
E10100	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C
E10102	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 : RA3801023
Client : WHA Utilities and Power Public Company Limited
27 Moo 2, Tambon Phana Nakhon, Amphoe Nakhon Phatham, Rayong,
Thailand, 21100
Project : WHA Rayong 36
Project Location : BYD AUTO (THAILAND) CO.,LTD.,J19D_WWT_WHARayong36_007_2567

Sample Number : RA3801023-001
Sample Date : Feb 09, 2026 02:15 PM
Sample Name : Wastewater : Point No.5
Sampling Site : BYD AUTO (THAILAND) CO.,LTD.
Contract ID : WWT_WHARayong36_007_2567
Plot : J19D
Date of Analysis : Feb 09, 2026
Sampled by : Wanayoo Chiraphak (1-323-4-0020)
Condition of Sample : 1x 500mL Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet/data, 1x 1L Plastic Bottle, refrigerated
Physical Properties : yellow, some odour, some solids, turbid

Method	Testing Lab	Method Descriptions
E10020	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
E10044	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (C)
E10046	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
E10048	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
E10097	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B
E10100	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C
E10102	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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TESTING
No.0009

Analysis Report

Work Order	RA2505391	Date Received	Jan 12, 2026
Cliet	WHA Utilities and Power Public Company Limited	Date Reported	Jan 20, 2026
	27 Moo 2, Tambon Phana Nakhon, Amphoe Nakhon Phatham, Rayong, Thailand, 21100	Report Number	RA2505391-AB
Project	WHA Rayong 36		
Project Location	BYD AUTO (THAILAND) CO.,LTD.,J19D_WWT_WHARayong36_008_2567		
Sample Number	RA2505391-001		
Sampled Date	Jan 12, 2026		
Sample Name	Wastewater : Point Houli		
Sampling Site	BYD AUTO (THAILAND) CO.,LTD.		
Contract ID	WWT_WHARayong36_008_2567		
Pilot	J19D		
Date of Analysis	Jan 13, 2026		
Sampled by	Nattawut Athomprammarat (+323-4-0006) Paichanon Inpruk (+204-4-0197)		
Condition of Sample	2x 1L Plastic Bottle, 1x Cyanide, 1x Plastic bottle - Preserved with H2SO4, 1x Plastic Bottle - Preserved with Zinc Acetate and NaOH, 1x Oil & Grease, 1x Loghouse/ data, 1x Plastic Bottle - Preserved with HNO3, 1x 500mL Plastic Bottle, 1x Plastic Bottle - Preserved with NaOH, 2x Amber Glass Bottle- Unpreserved, 1x 500mL Plastic bottle - Preserved with H2SO4, refrigerated yellow, strong odour, some solids, turbid		

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Pesticides - Organochlorine							
Endrin	µg/L	0.01	0.02	Not Detected	Not Detected	EN0069	Bangkok
gamma-BHC - (lindane)	µg/L	0.01	0.02	Not Detected	Not Detected	EN0069	Bangkok
Heptachlor epoxide	µg/L	0.01	0.02	Not Detected	Not Detected	EN0069	Bangkok
Methoxychlor	µg/L	0.01	0.02	Not Detected	Not Detected	EN0069	Bangkok
Heptachlor	µg/L	0.01	0.02	Not Detected	Not Detected	EN0069	Bangkok

Guideline: Environmental Impact Assessment Report of WHA Rayong 36 Industrial Estate

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

- Key:
- LOD: Limit of Detection
 - LOQ: 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
EN0069	Bangkok	In-house method: STM 04-101 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 6610 D, part 6410 B

Signatories

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Analysis Report

Work Order	RA2505391	Date Received	Jan 12, 2026
Cliet	WHA Utilities and Power Public Company Limited	Date Reported	Jan 20, 2026
	27 Moo 2, Tambon Phana Nakhon, Amphoe Nakhon Phatham, Rayong, Thailand, 21100	Report Number	RA2505391-AC
Project	WHA Rayong 36		
Project Location	BYD AUTO (THAILAND) CO.,LTD.,J19D_WWT_WHARayong36_008_2567		
Sample Number	RA2505391-001		
Sampled Date	Jan 12, 2026		
Sample Name	Wastewater : Point Houli		
Sampling Site	BYD AUTO (THAILAND) CO.,LTD.		
Contract ID	WWT_WHARayong36_008_2567		
Pilot	J19D		
Date of Analysis	Jan 13, 2026		
Sampled by	Nattawut Athomprammarat Paichanon Inpruk		
Condition of Sample	2x 1L Plastic Bottle, 1x Cyanide, 1x Plastic bottle - Preserved with H2SO4, 1x Plastic Bottle - Preserved with Zinc Acetate and NaOH, 1x Oil & Grease, 1x Loghouse/ data, 1x Plastic Bottle - Preserved with HNO3, 1x 500mL Plastic Bottle, 1x Plastic Bottle - Preserved with NaOH, 2x Amber Glass Bottle- Unpreserved, 1x 500mL Plastic bottle - Preserved with H2SO4, refrigerated yellow, strong odour, some solids, turbid		

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
Asiatic Surfactants as MBAS	mg/L	-	0.05	0.75	≤30	EN0043	Bangkok
Fluoride	mg/L	-	0.2	0.7	≤5	EN0253	Rayong
Metals and Major Cations - Total							
Iron	mg/L	0.005	0.01	0.29	≤10	ME0002	Rayong
Silver	mg/L	0.005	0.01	Not Detected	≤1	ME0002	Rayong

Guideline: Environmental Impact Assessment Report of WHA Rayong 36 Industrial Estate

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

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

Signatories

Nattawut Athomprammarat
Specialist 2

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TESTING
No.0009

Analysis Report

Work Order	RA2505391	Date Received	Jan 12, 2026
Cliet	WHA Utilities and Power Public Company Limited	Date Reported	Jan 20, 2026
	27 Moo 2, Tambon Phana Nakhon, Amphoe Nakhon Phatham, Rayong, Thailand, 21100	Report Number	RA2505391-AB
Project	WHA Rayong 36		
Project Location	BYD AUTO (THAILAND) CO.,LTD.,J19D_WWT_WHARayong36_008_2567		
Sample Number	RA2505391-001		
Sampled Date	Jan 12, 2026		
Sample Name	Wastewater : Point Houli		
Sampling Site	BYD AUTO (THAILAND) CO.,LTD.		
Contract ID	WWT_WHARayong36_008_2567		
Pilot	J19D		
Date of Analysis	Jan 13, 2026		
Sampled by	Nattawut Athomprammarat (+323-4-0006) Paichanon Inpruk (+204-4-0197)		
Condition of Sample	2x 1L Plastic Bottle, 1x Cyanide, 1x Plastic bottle - Preserved with H2SO4, 1x Plastic Bottle - Preserved with Zinc Acetate and NaOH, 1x Oil & Grease, 1x Loghouse/ data, 1x Plastic Bottle - Preserved with HNO3, 1x 500mL Plastic Bottle, 1x Plastic Bottle - Preserved with NaOH, 2x Amber Glass Bottle- Unpreserved, 1x 500mL Plastic bottle - Preserved with H2SO4, refrigerated yellow, strong odour, some solids, turbid		

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Pesticides - Organochlorine							
Endrin	µg/L	0.01	0.02	Not Detected	Not Detected	EN0069	Bangkok
gamma-BHC - (lindane)	µg/L	0.01	0.02	Not Detected	Not Detected	EN0069	Bangkok
Heptachlor epoxide	µg/L	0.01	0.02	Not Detected	Not Detected	EN0069	Bangkok
Methoxychlor	µg/L	0.01	0.02	Not Detected	Not Detected	EN0069	Bangkok
Heptachlor	µg/L	0.01	0.02	Not Detected	Not Detected	EN0069	Bangkok

Guideline: Environmental Impact Assessment Report of WHA Rayong 36 Industrial Estate

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

- Key:
- LOD: Limit of Detection
 - LOQ: 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
EN0069	Bangkok	In-house method: STM 04-101 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 6610 D, part 6410 B

Signatories

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Analysis Report

Work Order	RA2505391	Date Received	Jan 12, 2026
Cliet	WHA Utilities and Power Public Company Limited	Date Reported	Jan 20, 2026
	27 Moo 2, Tambon Phana Nakhon, Amphoe Nakhon Phatham, Rayong, Thailand, 21100	Report Number	RA2505391-AC
Project	WHA Rayong 36		
Project Location	BYD AUTO (THAILAND) CO.,LTD.,J19D_WWT_WHARayong36_008_2567		
Sample Number	RA2505391-001		
Sampled Date	Jan 12, 2026		
Sample Name	Wastewater : Point Houli		
Sampling Site	BYD AUTO (THAILAND) CO.,LTD.		
Contract ID	WWT_WHARayong36_008_2567		
Pilot	J19D		
Date of Analysis	Jan 13, 2026		
Sampled by	Nattawut Athomprammarat Paichanon Inpruk		
Condition of Sample	2x 1L Plastic Bottle, 1x Cyanide, 1x Plastic bottle - Preserved with H2SO4, 1x Plastic Bottle - Preserved with Zinc Acetate and NaOH, 1x Oil & Grease, 1x Loghouse/ data, 1x Plastic Bottle - Preserved with HNO3, 1x 500mL Plastic Bottle, 1x Plastic Bottle - Preserved with NaOH, 2x Amber Glass Bottle- Unpreserved, 1x 500mL Plastic bottle - Preserved with H2SO4, refrigerated yellow, strong odour, some solids, turbid		

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
Asiatic Surfactants as MBAS	mg/L	-	0.05	0.75	≤30	EN0043	Bangkok
Fluoride	mg/L	-	0.2	0.7	≤5	EN0253	Rayong
Metals and Major Cations - Total							
Iron	mg/L	0.005	0.01	0.29	≤10	ME0002	Rayong
Silver	mg/L	0.005	0.01	Not Detected	≤1	ME0002	Rayong

Guideline: Environmental Impact Assessment Report of WHA Rayong 36 Industrial Estate

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

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

Signatories

Nattawut Athomprammarat
Specialist 2

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Analysis Report

Work Order : RA2505391
Client : WHA Utilities and Power Public Company Limited
27 Moo 2, Tambon Phana Nakhon, Amphoe Nakhon Phatham, Rayong, Thailand, 21180
Project : WHA Rayong 36
Project Location : BYD AUTO (THAILAND) CO.,LTD.,J19D_WWT_WHARayong36_008_2567

Sample Number : RA2505391-001
Sample Date : Jan 12, 2026
Sample Name : Wastewater : Point Houli
Sampling Site : BYD AUTO (THAILAND) CO.,LTD.
Contract ID : WWT_WHARayong36_008_2567
Plot : J19D
Date of Analysis : Jan 12, 2026
Sampled by : Nattawut Aihompranmarat (+323-4-0006)
Paichanon Inpruk (+204-4-0187)

Condition of Sample : 2x 1L Plastic Bottle, 1x Cyanide, 1x Plastic bottle - Preserved with H2SO4, 1x Plastic Bottle - Preserved with Zinc Acetate and NaOH, 1x Oil & Grease, 1x Logsheet/ data, 1x Plastic Bottle - Preserved with HNO3, 1x 500mL Plastic Bottle, 1x Plastic Bottle - Preserved with NaOH, 2x Amber Glass Bottle- Unpreserved, 1x 500mL Plastic bottle - Preserved with H2SO4, refrigerated yellow, strong odour, some solids, turbid

Physical Properties
Comment : Sampling is 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 marked * means not included in scope of Accreditation ISO/IEC 17025

Signatories

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Analysis Report

Work Order : RA2505391
Client : WHA Utilities and Power Public Company Limited
27 Moo 2, Tambon Phana Nakhon, Amphoe Nakhon Phatham, Rayong, Thailand, 21180
Project : WHA Rayong 36
Project Location : BYD AUTO (THAILAND) CO.,LTD.,J19D_WWT_WHARayong36_008_2567

Sample Number : RA2505391-001
Sample Date : Jan 12, 2026
Sample Name : Wastewater : Point Houli
Sampling Site : BYD AUTO (THAILAND) CO.,LTD.
Contract ID : WWT_WHARayong36_008_2567
Plot : J19D
Date of Analysis : Jan 12, 2026
Sampled by : Nattawut Aihompranmarat (+323-4-0006)
Paichanon Inpruk (+204-4-0187)

Condition of Sample : 2x 1L Plastic Bottle, 1x Cyanide, 1x Plastic bottle - Preserved with H2SO4, 1x Plastic Bottle - Preserved with Zinc Acetate and NaOH, 1x Oil & Grease, 1x Logsheet/ data, 1x Plastic Bottle - Preserved with HNO3, 1x 500mL Plastic Bottle, 1x Plastic Bottle - Preserved with NaOH, 2x Amber Glass Bottle- Unpreserved, 1x 500mL Plastic bottle - Preserved with H2SO4, refrigerated yellow, strong odour, some solids, turbid

Physical Properties
Method Testing Lab Method Descriptions
ME0002 Raying Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3120 B,3030 F
ME0003 Raying Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, Calculated APHA 3120 Calculation
ME0005 Raying Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3112 (B)
ME0008 Raying Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3500-Cr (B)

END OF REPORT

Signatories

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Analysis Report

Work Order : RA2505391
Client : WHA Utilities and Power Public Company Limited
27 Moo 2, Tambon Phana Nakhon, Amphoe Nakhon Phatham, Rayong, Thailand, 21180
Project : WHA Rayong 36
Project Location : BYD AUTO (THAILAND) CO.,LTD.,J19D_WWT_WHARayong36_008_2567

Sample Number : RA2505391-001
Sample Date : Jan 12, 2026
Sample Name : Wastewater : Point Houli
Sampling Site : BYD AUTO (THAILAND) CO.,LTD.
Contract ID : WWT_WHARayong36_008_2567
Plot : J19D
Date of Analysis : Jan 12, 2026
Sampled by : Nattawut Aihompranmarat (+323-4-0006)
Paichanon Inpruk (+204-4-0187)

Condition of Sample : 2x 1L Plastic Bottle, 1x Cyanide, 1x Plastic bottle - Preserved with H2SO4, 1x Plastic Bottle - Preserved with Zinc Acetate and NaOH, 1x Oil & Grease, 1x Logsheet/ data, 1x Plastic Bottle - Preserved with HNO3, 1x 500mL Plastic Bottle, 1x Plastic Bottle - Preserved with NaOH, 2x Amber Glass Bottle- Unpreserved, 1x 500mL Plastic bottle - Preserved with H2SO4, refrigerated yellow, strong odour, some solids, turbid

Physical Properties

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	
E10005	Raying	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - CN C, E	
E10010	Raying	Wastewater analysis manual, Environmental Engineering Association of Thailand, 4th ed., 2004	
E10020	Raying	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	
E10027	Raying	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - Cl (F)	
E10032	Raying	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - S2 (C, F)	
E10044	Raying	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - D (G)	
E10048	Raying	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	
E10048	Raying	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	
E10051	Raying	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5530 B, D	
E10080	Raying	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2120 F	
E10097	Raying	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	
E10100	Raying	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	
E10102	Raying	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	
E10228	Raying	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500-Hong (C), part 1840 (D)	

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Analysis Report

Work Order : RA2505391
Client : WHA Utilities and Power Public Company Limited
27 Moo 2, Tambon Phana Nakhon, Amphoe Nakhon Phatham, Rayong, Thailand, 21180
Project : WHA Rayong 36
Project Location : BYD AUTO (THAILAND) CO.,LTD.,J19D_WWT_WHARayong36_008_2567

Sample Number : RA2505391-001
Sample Date : Jan 12, 2026
Sample Name : Wastewater : Point Houli
Sampling Site : BYD AUTO (THAILAND) CO.,LTD.
Contract ID : WWT_WHARayong36_008_2567
Plot : J19D
Date of Analysis : Jan 13, 2026
Sampled by : Nattawut Aihompranmarat (+323-4-0006)
Paichanon Inpruk (+204-4-0187)

Condition of Sample : 2x 1L Plastic Bottle, 1x Cyanide, 1x Plastic bottle - Preserved with H2SO4, 1x Plastic Bottle - Preserved with Zinc Acetate and NaOH, 1x Oil & Grease, 1x Logsheet/ data, 1x Plastic Bottle - Preserved with HNO3, 1x 500mL Plastic Bottle, 1x Plastic Bottle - Preserved with NaOH, 2x Amber Glass Bottle- Unpreserved, 1x 500mL Plastic bottle - Preserved with H2SO4, refrigerated yellow, strong odour, some solids, turbid

Physical Properties

Analytical Results							
Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Pesticides - Organochlorine							
2,4-DDB	µg/L	0.01	0.02	Not Detected	Not Detected	E10069	Bangkok
2,4-DDE	µg/L	0.01	0.02	Not Detected	Not Detected	E10069	Bangkok
2,4-DDT	µg/L	0.01	0.02	Not Detected	Not Detected	E10069	Bangkok
4,4-DDD	µg/L	0.01	0.02	Not Detected	Not Detected	E10069	Bangkok
4,4-DDE	µg/L	0.01	0.02	Not Detected	Not Detected	E10069	Bangkok
4,4-DDT	µg/L	0.01	0.02	Not Detected	Not Detected	E10069	Bangkok
Aldrin	µg/L	0.01	0.02	Not Detected	Not Detected	E10069	Bangkok
alpha-BHC	µg/L	0.01	0.02	Not Detected	Not Detected	E10069	Bangkok
beta-BHC	µg/L	0.01	0.02	Not Detected	Not Detected	E10069	Bangkok
Chlordane	µg/L	0.01	0.04	Not Detected	Not Detected	E10069	Bangkok
delta-BHC	µg/L	0.01	0.02	Not Detected	Not Detected	E10069	Bangkok
Dieldrin	µg/L	0.01	0.02	Not Detected	Not Detected	E10069	Bangkok
Endosulfan I (alpha isomer)	µg/L	0.01	0.02	Not Detected	Not Detected	E10069	Bangkok
Endosulfan II (beta isomer)	µg/L	0.01	0.02	Not Detected	Not Detected	E10069	Bangkok
Endrin aldehyde	µg/L	0.01	0.02	Not Detected	Not Detected	E10069	Bangkok

Signatories

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Analysis Report

Work Order	RA2505391	Date Received	Jan 12, 2026				
Client	WHA Utilities and Power Public Company Limited	Date Reported	Jan 20, 2026				
	27 Moo 2, Tambon Phana Nakhon, Amphoe Nakhon Phatham, Rayong, Thailand, 21100	Report Number	RA2505391-AC				
Project	WHA Rayong 36						
Project Location	BYD AUTO (THAILAND) CO.,LTD.,J19D_WWT_WHARayong36_008_2567						
Sample Number	RA2505391-001						
Sampled Date	Jan 12, 2026						
Sample Name	Wastewater : Point Houli						
Sampling Site	BYD AUTO (THAILAND) CO.,LTD.						
Contract ID	WWT_WHARayong36_008_2567						
Plot	J19D						
Date of Analysis	Jan 13, 2026						
Sampled by	Nattawat Athomprammarat						
	Paichanon Inprirk						
Condition of Sample	2x 1L Plastic Bottle, 1x Cyanide, 1x Plastic bottle - Preserved with H2SO4, 1x Plastic Bottle - Preserved with Zinc Acetate and NaOH, 1x Oil & Grease, 1x Logsheet/data, 1x Plastic Bottle - Preserved with HNO3, 1x 500mL Plastic Bottle, 1x Plastic Bottle - Preserved with NaOH, 2x Amber Glass Bottle-Unpreserved, 1x 500mL Plastic bottle - Preserved with H2SO4, refrigerated yellow, strong odour, some solids, turbid						
Physical Properties							
Analytical Results							
Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
Anionic Surfactants as MBAS	mg/L	-	0.05	0.75	≤30	EN10043	Bangkok
Fluoride	mg/L	-	0.2	0.7	≤5	EN10253	Rayong
Metals and Major Cations - Total							
Iron	mg/L	0.005	0.01	0.29	≤10	ME0002	Rayong
Silver	mg/L	0.005	0.01	Not Detected	≤1	ME0002	Rayong
Guideline:	Environmental Impact Assessment Report of WHA Rayong 36 Industrial Estate						
Comment:	Sampling is not included in scope of accreditation ISO/IEC 17025						
Key:	LOD : Limit of Detection "C" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)						

Signatories

Nattawat

Nattawat Athomprammarat
Specialist 2

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Analysis Report

Work Order	RA2505391	Date Received	Jan 12, 2026				
Client	WHA Utilities and Power Public Company Limited	Date Reported	Jan 20, 2026				
	27 Moo 2, Tambon Phana Nakhon, Amphoe Nakhon Phatthana, Rayong, Thailand, 21100	Report Number	RA2505391-AA				
Project	WHA Rayong 36						
Project Location	BYD AUTO (THAILAND) CO.,LTD.,J19D_WWT_WHARayong36_008_2567						
Sample Number	RA2505391-001						
Sampled Date	Jan 12, 2026						
Sample Name	Wastewater : Point No.6						
Sampling Site	BYD AUTO (THAILAND) CO.,LTD.						
Contract ID	WWT_WHARayong36_008_2567						
Plot	J19D						
Date of Analysis	Jan 12, 2026						
Sampled by	Nattawat Athomprammarat (+323-4-0006) Paichanon Inprirk (+204-4-0187)						
Condition of Sample	2x 1L Plastic Bottle, 1x Cyanide, 1x Plastic bottle - Preserved with H2SO4, 1x Plastic Bottle - Preserved with Zinc Acetate and NaOH, 1x Oil & Grease, 1x Logsheet/ data, 1x Plastic Bottle - Preserved with HNO3, 1x 500mL Plastic Bottle, 1x Plastic Bottle - Preserved with NaOH, 2x Amber Glass Bottle- Unpreserved, 1x 500mL Plastic bottle - Preserved with H2SO4, refrigerated						
Physical Properties	yellow, strong odour, some solids, turbid						
Analytical Results							
Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	31.2	≤200	EN10044	Rayong
COD	mg/L	1.5	25	86	≤400	EN10046	Rayong
Cyanide as HCN	mg/L	0.001	0.005	Not Detected	≤0.2	EN10005	Rayong
Formaldehyde	mg/L	0.03	0.1	0.2	≤1	EN10010	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	EN10048	Rayong
Phenol	mg/L	0.005	0.010	0.010	≤1	EN10051	Rayong
Residual Free Chlorine *	mg/L	-	0.1	<0.1	≤1	EN10027	Rayong
Sulfides *	mg/L	-	0.5	<0.5	≤1	EN10032	Rayong
Total Kjeldahl Nitrogen as N	mg/L	-	1.0	13.6	≤100	EN10026	Rayong
Metals and Major Cations - Total							
Arsenic *	mg/L	0.002	0.005	Not Detected	≤0.25	ME0002	Rayong
Barium *	mg/L	0.002	0.005	0.058	≤1	ME0002	Rayong
Cadmium *	mg/L	0.001	0.002	Not Detected	≤0.03	ME0002	Rayong
Copper *	mg/L	0.005	0.01	<0.01	≤2	ME0002	Rayong
Hexavalent Chromium *	mg/L	0.003	0.01	Not Detected	≤0.25	ME0006	Rayong

Signatories

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Analysis Report

Work Order	RA2505391	Date Received	Jan 12, 2026
Client	WHA Utilities and Power Public Company Limited	Date Reported	Jan 20, 2026
	27 Moo 2, Tambon Phana Nakhon, Amphoe Nakhon Phatthana, Rayong, Thailand, 21100	Report Number	RA2505391-AC
Project	WHA Rayong 36		
Project Location	BYD AUTO (THAILAND) CO.,LTD.,J19D_WWT_WHARayong36_008_2567		
Sample Number	RA2505391-001		
Sampled Date	Jan 12, 2026		
Sample Name	Wastewater : Point Houli		
Sampling Site	BYD AUTO (THAILAND) CO.,LTD.		
Contract ID	WWT_WHARayong36_008_2567		
Plot	J19D		
Date of Analysis	Jan 13, 2026		
Sampled by	Nattawat Athomprammarat Paichanon Inprirk		
Condition of Sample	2x 1L Plastic bottle, 1x Cyanide, 1x Plastic bottle - Preserved with H2SO4, 1x Plastic Bottle - Preserved with Zinc Acetate and NaOH, 1x Oil & Grease, 1x Lugsheet/ data, 1x Plastic Bottle - Preserved with HNO3, 1x 500mL Plastic Bottle, 1x Plastic Bottle - Preserved with NaOH, 2x Amber Glass Bottle- Unpreserved, 1x 500mL Plastic bottle - Preserved with H2SO4, refrigerated yellow, strong odour, some solids, turbid		
Physical Properties			
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	
EN10043	Bangkok	Based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5540 IL C	
EN10253	Rayong	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500-F (D)	
ME0002	Rayong	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3120 B.3000 F	
END OF REPORT			

Signatories

Nattawat

Nattawat Athomprammarat
Specialist 2

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ALS Laboratory Group (Thailand) Co.,Ltd. Rayong Life Sciences

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Analysis Report

Work Order	RA2505391	Date Received	Jan 12, 2026				
Client	WHA Utilities and Power Public Company Limited	Date Reported	Jan 20, 2026				
	27 Moo 2, Tambon Phana Nakhon, Amphoe Nakhon Phatham, Rayong, Thailand, 21100	Report Number	RA2505391-AA				
Project	WHA Rayong 36						
Project Location	BYD AUTO (THAILAND) CO.,LTD.,J19D_WWT_WHARayong36_008_2567						
Sample Number	RA2505391-001						
Sampled Date	Jan 12, 2026						
Sample Name	Wastewater : Point Houli						
Sampling Site	BYD AUTO (THAILAND) CO.,LTD.						
Contract ID	WWT_WHARayong36_008_2567						
Plot	J19D						
Date of Analysis	Jan 12, 2026						
Sampled by	Nattawat Athomprammarat (+323-4-0006) Paichanon Inprirk (+204-4-0187)						
Condition of Sample	2x 1L Plastic Bottle, 1x Cyanide, 1x Plastic Bottle - Preserved with H2SO4, 1x Plastic Bottle - Preserved with Zinc Acetate and NaOH, 1x Oil & Grease, 1x Loghouse/ data, 1x Plastic Bottle - Preserved with HNO3, 1x 500mL Plastic Bottle, 1x Plastic Bottle - Preserved with NaOH, 2x Amber Glass Bottle- Unpreserved, 1x 500mL Plastic bottle - Preserved with H2SO4, refrigerated yellow, strong odour, some solids, turbid						
Physical Properties							
Analytical Results							
Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Metals and Major Cations - Total							
Lead *	mg/L	0.002	0.005	Not Detected	<0.2	ME0002	Rayong
Manganese *	mg/L	0.001	0.002	0.106	≤5	ME0002	Rayong
Mercury *	mg/L	0.0001	0.0005	<0.0005	<0.005	ME0005	Rayong
Nickel *	mg/L	0.002	0.005	0.084	≤1	ME0002	Rayong
Selenium *	mg/L	0.005	0.01	Not Detected	<0.02	ME0002	Rayong
Trivalent Chromium *	mg/L	-	0.01	<0.01	<0.75	ME0003	Rayong
Zinc *	mg/L	0.005	0.01	0.11	≤5	ME0002	Rayong
Physical and Aggregate Properties							
Color (at Original pH)	ADMI	-	5	26	≤600	EN10080	Rayong
Color (at pH 7.0)	ADMI	-	5	24	≤600	EN10080	Rayong
pH - Field *	pH Unit	-	1.0	7.5	6-9	EN10020	Rayong
Temperature *	°C	-	-	28.9	≤40	EN10097	Rayong
Total Dissolved Solids at 180°C	mg/L	-	5	544	≤3000	EN10100	Rayong
Total Suspended Solids	mg/L	-	5	20	≤200	EN10102	Rayong
Guideline:	Environmental Impact Assessment Report of WHA Rayong 36 Industrial Estate						

Signatories

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Analysis Report

Work Order	RA2505391	Date Received	Jan 12, 2026
Client	WHA Utilities and Power Public Company Limited	Date Reported	Jan 20, 2026
	27 Moo 2, Tambon Phana Nakhon, Amphoe Nakhon Phatham, Rayong, Thailand, 21180	Report Number	RA2505391-AA
Project	WHA Rayong 36		
Project Location	BYD AUTO (THAILAND) CO.,LTD.,J19D_WWT_WHARayong36_008_2567		
Sample Number	RA2505391-001		
Sampled Date	Jan 12, 2026		
Sample Name	Wastewater : Point Houli		
Sampling Site	BYD AUTO (THAILAND) CO.,LTD.		
Contract ID	WWT_WHARayong36_008_2567		
Pilot	J19D		
Date of Analysis	Jan 12, 2026		
Sampled by	Nattawut Athomprammarat (+323-a-0006) Paichanon Inpruk (+204-a-0187)		
Condition of Sample	2x 1L Plastic Bottle, 1x Cyanide, 1x Plastic bottle - Preserved with H2SO4, 1x Plastic Bottle - Preserved with Zinc Acetate and NaOH, 1x Oil & Grease, 1x Logsheet/ data, 1x Plastic Bottle - Preserved with HNO3, 1x 500mL Plastic Bottle, 1x Plastic Bottle - Preserved with NaOH, 2x Amber Glass Bottle- Unpreserved, 1x 500mL Plastic bottle - Preserved with H2SO4, refrigerated yellow, strong odour, some solids, turbid		
Physical Properties			
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	
ME0003	Rayong	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, Calculated APHA 3120 Calculation	
ME0005	Rayong	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3112 (B)	
ME0008	Rayong	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3500-Cr (B)	

— END OF REPORT —

Signatories

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Analysis Report

Work Order	RA2505391	Date Received	Jan 12, 2026
Client	WHA Utilities and Power Public Company Limited	Date Reported	Jan 20, 2026
	27 Moo 2, Tambon Phana Nakhon, Amphoe Nakhon Phatthana, Rayong, Thailand, 21180	Report Number	RA2505391-AB
Project	WHA Rayong 36		
Project Location	BYD AUTO (THAILAND) CO.,LTD.,J19D_WWT_WHARayong36_008_2567		
Sample Number	RA2505391-001		
Sampled Date	Jan 12, 2026		
Sample Name	Wastewater : Point No.6		
Sampling Site	BYD AUTO (THAILAND) CO.,LTD.		
Contract ID	WWT_WHARayong36_008_2567		
Pilot	J19D		
Date of Analysis	Jan 13, 2026		
Sampled by	Nattawut Athomprammarat (+323-a-0006) Paichanon Inpruk (+204-a-0187)		
Condition of Sample	2x 1L Plastic Bottle, 1x Cyanide, 1x Plastic bottle - Preserved with H2SO4, 1x Plastic Bottle - Preserved with Zinc Acetate and NaOH, 1x Oil & Grease, 1x Logsheet/ data, 1x Plastic Bottle - Preserved with HNO3, 1x 500mL Plastic Bottle, 1x Plastic Bottle - Preserved with NaOH, 2x Amber Glass Bottle- Unpreserved, 1x 500mL Plastic bottle - Preserved with H2SO4, refrigerated yellow, strong odour, some solids, turbid		
Physical Properties			

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Pesticides - Organochlorine							
Endrin	µg/L	0.01	0.02	Not Detected	Not Detected	E10069	Bangkok
gamma-BHC - (lindane)	µg/L	0.01	0.02	Not Detected	Not Detected	E10069	Bangkok
Heptachlor epoxide	µg/L	0.01	0.02	Not Detected	Not Detected	E10069	Bangkok
Methoxychlor	µg/L	0.01	0.02	Not Detected	Not Detected	E10069	Bangkok
Heptachlor	µg/L	0.01	0.02	Not Detected	Not Detected	E10069	Bangkok

Guideline: Environmental Impact Assessment Report of WHA Rayong 36 Industrial Estate

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

Key

- o LOD: Limit of Detection
- o "C": 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
E10069	Bangkok	In-house method : STM 04-101 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 6610 D, part 6410 B

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Analysis Report

Work Order	RA2505391	Date Received	Jan 12, 2026
Client	WHA Utilities and Power Public Company Limited	Date Reported	Jan 20, 2026
	27 Moo 2, Tambon Phana Nakhon, Amphoe Nakhon Phatham, Rayong, Thailand, 21180	Report Number	RA2505391-AB
Project	WHA Rayong 36		
Project Location	BYD AUTO (THAILAND) CO.,LTD.,J19D_WWT_WHARayong36_008_2567		
Sample Number	RA2505391-001		
Sampled Date	Jan 12, 2026		
Sample Name	Wastewater : Point Houli		
Sampling Site	BYD AUTO (THAILAND) CO.,LTD.		
Contract ID	WWT_WHARayong36_008_2567		
Pilot	J19D		
Date of Analysis	Jan 13, 2026		
Sampled by	Nattawut Athomprammarat (+323-a-0006) Paichanon Inpruk (+204-a-0187)		
Condition of Sample	2x 1L Plastic Bottle, 1x Cyanide, 1x Plastic bottle - Preserved with H2SO4, 1x Plastic Bottle - Preserved with Zinc Acetate and NaOH, 1x Oil & Grease, 1x Logsheet/ data, 1x Plastic Bottle - Preserved with HNO3, 1x 500mL Plastic Bottle, 1x Plastic Bottle - Preserved with NaOH, 2x Amber Glass Bottle- Unpreserved, 1x 500mL Plastic bottle - Preserved with H2SO4, refrigerated yellow, strong odour, some solids, turbid		
Physical Properties			
Analytical Results			
Analyte	Unit	LOD	LOQ
Pesticides - Organochlorine			
2,4-DDD	µg/L	0.01	0.02
2,4-DDE	µg/L	0.01	0.02
2,4-DDT	µg/L	0.01	0.02
4,4-DDD	µg/L	0.01	0.02
4,4-DDE	µg/L	0.01	0.02
4,4-DDT	µg/L	0.01	0.02
Aldrin	µg/L	0.01	0.02
alpha-BHC	µg/L	0.01	0.02
beta-BHC	µg/L	0.01	0.02
Chlordane	µg/L	0.01	0.04
delta-BHC	µg/L	0.01	0.02
Dieldrin	µg/L	0.01	0.02
Endosulfan I (alpha isomer)	µg/L	0.01	0.02
Endosulfan II (beta isomer)	µg/L	0.01	0.02
Endrin aldehyde	µg/L	0.01	0.02

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Pesticides - Organochlorine							
2,4-DDD	µg/L	0.01	0.02	Not Detected	Not Detected	E10069	Bangkok
2,4-DDE	µg/L	0.01	0.02	Not Detected	Not Detected	E10069	Bangkok
2,4-DDT	µg/L	0.01	0.02	Not Detected	Not Detected	E10069	Bangkok
4,4-DDD	µg/L	0.01	0.02	Not Detected	Not Detected	E10069	Bangkok
4,4-DDE	µg/L	0.01	0.02	Not Detected	Not Detected	E10069	Bangkok
4,4-DDT	µg/L	0.01	0.02	Not Detected	Not Detected	E10069	Bangkok
Aldrin	µg/L	0.01	0.02	Not Detected	Not Detected	E10069	Bangkok
alpha-BHC	µg/L	0.01	0.02	Not Detected	Not Detected	E10069	Bangkok
beta-BHC	µg/L	0.01	0.02	Not Detected	Not Detected	E10069	Bangkok
Chlordane	µg/L	0.01	0.04	Not Detected	Not Detected	E10069	Bangkok
delta-BHC	µg/L	0.01	0.02	Not Detected	Not Detected	E10069	Bangkok
Dieldrin	µg/L	0.01	0.02	Not Detected	Not Detected	E10069	Bangkok
Endosulfan I (alpha isomer)	µg/L	0.01	0.02	Not Detected	Not Detected	E10069	Bangkok
Endosulfan II (beta isomer)	µg/L	0.01	0.02	Not Detected	Not Detected	E10069	Bangkok
Endrin aldehyde	µg/L	0.01	0.02	Not Detected	Not Detected	E10069	Bangkok

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Analysis Report

Work Order	RA2505391	Date Received	Jan 12, 2026
Client	WHA Utilities and Power Public Company Limited	Date Reported	Jan 20, 2026
	27 Moo 2, Tambon Phana Nakhon, Amphoe Nakhon Phatham, Rayong, Thailand, 21180	Report Number	RA2505391-AB
Project	WHA Rayong 36		
Project Location	BYD AUTO (THAILAND) CO.,LTD.,J19D_WWT_WHARayong36_008_2567		
Sample Number	RA2505391-001		
Sampled Date	Jan 12, 2026		
Sample Name	Wastewater : Point No.6		
Sampling Site	BYD AUTO (THAILAND) CO.,LTD.		
Contract ID	WWT_WHARayong36_008_2567		
Pilot	J19D		
Date of Analysis	Jan 13, 2026		
Sampled by	Nattawut Athomprammarat (+323-a-0006) Paichanon Inpruk (+204-a-0187)		
Condition of Sample	2x 1L Plastic Bottle, 1x Cyanide, 1x Plastic bottle - Preserved with H2SO4, 1x Plastic Bottle - Preserved with Zinc Acetate and NaOH, 1x Oil & Grease, 1x Logsheet/ data, 1x Plastic Bottle - Preserved with HNO3, 1x 500mL Plastic Bottle, 1x Plastic Bottle - Preserved with NaOH, 2x Amber Glass Bottle- Unpreserved, 1x 500mL Plastic bottle - Preserved with H2SO4, refrigerated yellow, strong odour, some solids, turbid		
Physical Properties			

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Pesticides - Organochlorine							
Endrin	µg/L	0.01	0.02	Not Detected	Not Detected	E10069	Bangkok
gamma-BHC - (lindane)	µg/L	0.01	0.02	Not Detected	Not Detected	E10069	Bangkok
Heptachlor epoxide	µg/L	0.01	0.02	Not Detected	Not Detected	E10069	Bangkok
Methoxychlor	µg/L	0.01	0.02	Not Detected	Not Detected	E10069	Bangkok
Heptachlor	µg/L	0.01	0.02	Not Detected	Not Detected	E10069	Bangkok

Guid



Analysis Report

Work Order	RA2505391	Date Received	Jan 12, 2026
Client	WHA Utilities and Power Public Company Limited	Date Reported	Jan 20, 2026
	27 Moo 2, Tambon Phana Nakhon, Amphoe Nakhon Phathamni, Rayong, Thailand, 21100	Report Number	RA2505391-AA
Project	WHA Rayong 36		
Project Location	BYD AUTO (THAILAND) CO.,LTD./J19D_WWT_WHARayong36_008_2567		
Sample Number	RA2505391-001		
Sampled Date	Jan 12, 2026		
Sample Name	Wastewater : Point Houli		
Sampling Site	BYD AUTO (THAILAND) CO.,LTD.		
Contract ID	WWT_WHARayong36_008_2567		
Pilot	J19D		
Date of Analysis	Jan 12, 2026		
Sampled by	Nattawut Athompranmarat (+323-4-0006) Paichanon Inpruk (+204-4-0197)		
Condition of Sample	2x 1L Plastic Bottle, 1x Cyanide, 1x Plastic bottle - Preserved with H2SO4, 1x Plastic Bottle - Preserved with Zinc Acetate and NaOH, 1x Oil & Grease, 1x Loghouse/ data, 1x Plastic Bottle - Preserved with HNO3, 1x 500mL Plastic Bottle, 1x Plastic Bottle - Preserved with NaOH, 2x Amber Glass Bottle- Unpreserved, 1x 500mL Plastic bottle - Preserved with H2SO4, refrigerated 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	31.2	≤200	EN1044	Rayong
COD	mg/L	1.5	25	86	≤400	EN1044	Rayong
Cyanide as HCN	mg/L	0.001	0.005	Not Detected	≤0.2	EN1005	Rayong
Formaldehyde	mg/L	0.03	0.1	0.2	≤1	EN1010	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	EN1048	Rayong
Phenol	mg/L	0.005	0.010	0.010	≤1	EN1051	Rayong
Residual Free Chlorine *	mg/L	-	0.1	<0.1	≤1	EN1027	Rayong
Sulfides *	mg/L	-	0.5	<0.5	≤1	EN1032	Rayong
Total Kjeldahl Nitrogen as N	mg/L	-	1.0	13.6	≤100	EN1026	Rayong
Metals and Major Cations - Total							
Arsenic *	mg/L	0.002	0.005	Not Detected	≤0.25	ME0002	Rayong
Barium *	mg/L	0.002	0.005	0.058	≤1	ME0002	Rayong
Cadmium *	mg/L	0.001	0.002	Not Detected	≤0.03	ME0002	Rayong
Copper *	mg/L	0.005	0.01	<0.01	≤2	ME0002	Rayong
Hexavalent Chromium *	mg/L	0.003	0.01	Not Detected	≤0.25	ME0008	Rayong

Signatories	
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Analysis Report

Work Order	RA2505391	Date Received	Jan 12, 2026
Client	WHA Utilities and Power Public Company Limited	Date Reported	Jan 20, 2026
	27 Moo 2, Tambon Phana Nakhon, Amphoe Nakhon Phathamni, Rayong, Thailand, 21100	Report Number	RA2505391-AA
Project	WHA Rayong 36		
Project Location	BYD AUTO (THAILAND) CO.,LTD./J19D_WWT_WHARayong36_008_2567		
Sample Number	RA2505391-001		
Sampled Date	Jan 12, 2026		
Sample Name	Wastewater : Point Houli		
Sampling Site	BYD AUTO (THAILAND) CO.,LTD.		
Contract ID	WWT_WHARayong36_008_2567		
Pilot	J19D		
Date of Analysis	Jan 12, 2026		
Sampled by	Nattawut Athompranmarat (+323-4-0006) Paichanon Inpruk (+204-4-0197)		
Condition of Sample	2x 1L Plastic Bottle, 1x Cyanide, 1x Plastic bottle - Preserved with H2SO4, 1x Plastic Bottle - Preserved with Zinc Acetate and NaOH, 1x Oil & Grease, 1x Loghouse/ data, 1x Plastic Bottle - Preserved with HNO3, 1x 500mL Plastic Bottle, 1x Plastic Bottle - Preserved with NaOH, 2x Amber Glass Bottle- Unpreserved, 1x 500mL Plastic bottle - Preserved with H2SO4, refrigerated yellow, strong odour, some solids, turbid		

Physical Properties	
Comment :	Sampling is not included in scope of accreditation ISO/IEC 17025
Key :	- LOD : Limit of Detection *" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting) - Analyte(s) marked * were not included in scope of Accreditation ISO/IEC 17025

Signatories	
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Analysis Report

Work Order	RA2505391	Date Received	Jan 12, 2026
Client	WHA Utilities and Power Public Company Limited	Date Reported	Jan 20, 2026
	27 Moo 2, Tambon Phana Nakhon, Amphoe Nakhon Phathamni, Rayong, Thailand, 21100	Report Number	RA2505391-AA
Project	WHA Rayong 36		
Project Location	BYD AUTO (THAILAND) CO.,LTD./J19D_WWT_WHARayong36_008_2567		
Sample Number	RA2505391-001		
Sampled Date	Jan 12, 2026		
Sample Name	Wastewater : Point Houli		
Sampling Site	BYD AUTO (THAILAND) CO.,LTD.		
Contract ID	WWT_WHARayong36_008_2567		
Pilot	J19D		
Date of Analysis	Jan 12, 2026		
Sampled by	Nattawut Athompranmarat (+323-4-0006) Paichanon Inpruk (+204-4-0197)		
Condition of Sample	2x 1L Plastic Bottle, 1x Cyanide, 1x Plastic bottle - Preserved with H2SO4, 1x Plastic Bottle - Preserved with Zinc Acetate and NaOH, 1x Oil & Grease, 1x Loghouse/ data, 1x Plastic Bottle - Preserved with HNO3, 1x 500mL Plastic Bottle, 1x Plastic Bottle - Preserved with NaOH, 2x Amber Glass Bottle- Unpreserved, 1x 500mL Plastic bottle - Preserved with H2SO4, refrigerated yellow, strong odour, some solids, turbid		

Analytical Results							
Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Metals and Major Cations - Total							
Lead *	mg/L	0.002	0.005	Not Detected	≤0.2	ME0002	Rayong
Manganese *	mg/L	0.001	0.002	0.106	≤5	ME0002	Rayong
Mercury *	mg/L	0.0001	0.0005	<0.0005	≤0.005	ME0005	Rayong
Nickel *	mg/L	0.002	0.005	0.084	≤1	ME0002	Rayong
Selenium *	mg/L	0.005	0.01	Not Detected	≤0.02	ME0002	Rayong
Trivalent Chromium *	mg/L	-	0.01	<0.01	≤0.75	ME0003	Rayong
Zinc *	mg/L	0.005	0.01	0.11	≤5	ME0002	Rayong
Physical and Aggregate Properties							
Color (at Original pH)	ADMI	-	5	26	≤800	EN1080	Rayong
Color (at pH 7.0)	ADMI	-	5	24	≤800	EN1080	Rayong
pH - Field *	pH Unit	-	1.0	7.5	6-9	EN1020	Rayong
Temperature *	°C	-	-	28.9	≤40	EN1087	Rayong
Total Dissolved Solids at 180°C	mg/L	-	5	544	≤3000	EN1100	Rayong
Total Suspended Solids	mg/L	-	5	20	≤200	EN1102	Rayong

Guideline : Environmental Impact Assessment Report of WHA Rayong 36 Industrial Estate

Signatories	
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Analysis Report

Work Order	RA2505391	Date Received	Jan 12, 2026
Client	WHA Utilities and Power Public Company Limited	Date Reported	Jan 20, 2026
	27 Moo 2, Tambon Phana Nakhon, Amphoe Nakhon Phathamni, Rayong, Thailand, 21100	Report Number	RA2505391-AA
Project	WHA Rayong 36		
Project Location	BYD AUTO (THAILAND) CO.,LTD./J19D_WWT_WHARayong36_008_2567		
Sample Number	RA2505391-001		
Sampled Date	Jan 12, 2026		
Sample Name	Wastewater : Point Houli		
Sampling Site	BYD AUTO (THAILAND) CO.,LTD.		
Contract ID	WWT_WHARayong36_008_2567		
Pilot	J19D		
Date of Analysis	Jan 12, 2026		
Sampled by	Nattawut Athompranmarat (+323-4-0006) Paichanon Inpruk (+204-4-0197)		
Condition of Sample	2x 1L Plastic Bottle, 1x Cyanide, 1x Plastic bottle - Preserved with H2SO4, 1x Plastic Bottle - Preserved with Zinc Acetate and NaOH, 1x Oil & Grease, 1x Loghouse/ data, 1x Plastic Bottle - Preserved with HNO3, 1x 500mL Plastic Bottle, 1x Plastic Bottle - Preserved with NaOH, 2x Amber Glass Bottle- Unpreserved, 1x 500mL Plastic bottle - Preserved with H2SO4, refrigerated 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
EN1005	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2024, part 4500 - CN (C), E
EN1010	Rayong	Wastewater analysis manual, Environmental Engineering Association of Thailand, 4th ed., 2004
EN1020	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN1027	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - Cl (F)
EN1032	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - S2 (C, F)
EN1044	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - D (G)
EN1048	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN1048	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN1051	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5530 B, D
EN1080	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2120 F
EN1087	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B
EN1100	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C
EN1102	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D
EN1028	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-Hmg (C), part 1840 (D)

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TESTING
No.0042

Analysis Report

Work Order : RA2505388
Client : WHA Utilities and Power Public Company Limited
27 Moo 2, Tambon Phana Nakhon, Amphoe Nakhon Phathamni, Rayong,
Thailand, 21100
Project : WHA Rayong 36
Project Location : TOURFELLA MOTECH CO., LTD., J.13, WWT_WHARayong36_002_2568

Sample Number : RA2505388-001
Sampled Date : Jan 12, 2026 03:05 PM
Sample Name : Wastewater
Sampling Site : TOURFELLA MOTECH CO., LTD.
Contract ID : WWT_WHARayong36_002_2568
Plot : J.13
Date of Analysis : Jan 12, 2026
Sampled by : Natawat Athompranmarat (+323-4-0006)
Condition of Sample : 1x 500mL Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet/data, 1x 1L Plastic Bottle, refrigerated
Physical Properties : yellow, strong odour, bits of solids, turbid

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	813	<200	E10044	Rayong
COD	mg/L	1.5	25	4560	<400	E10046	Rayong
Oil & Grease	mg/L	-	3	26	≤10	E10048	Rayong
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.7	6-9	E10020	Rayong
Temperature *	°C	-	-	28.6	≤40	E10007	Rayong
Total Dissolved Solids at 180°C	mg/L	-	5	324	≤3000	E10100	Rayong
Total Suspended Solids	mg/L	-	5	1960	<200	E10102	Rayong

Guideline : Environmental Impact Assessment Report of WHA Rayong 36 Industrial Estate

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

Key :

- LOD : Limit of Detection
- * : Lower than LOQ (Limit of Quantification) / LOR (Limit of Reporting)
- Analyte(s) marked * are not included in scope of Accreditation ISO/IEC 17025

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TESTING
No.0042

Analysis Report

Work Order : RA2505390
Client : WHA Utilities and Power Public Company Limited
27 Moo 2, Tambon Phana Nakhon, Amphoe Nakhon Phathamni, Rayong,
Thailand, 21100
Project : WHA Rayong 36
Project Location : Silverspark Development (Thailand) Co., Ltd., J.12, WWT_WHARayong36_013_2567

Sample Number : RA2505390-001
Sampled Date : Jan 12, 2026 10:18 AM
Sample Name : Wastewater
Sampling Site : Silverspark Development (Thailand) Co., Ltd.
Contract ID : WWT_WHARayong36_013_2567
Plot : J.12
Date of Analysis : Jan 12, 2026
Sampled by : Natawat Athompranmarat (+323-4-0006)
Condition of Sample : 1x 500mL Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet/data, 1x 1L Plastic Bottle, refrigerated
Physical Properties : yellow, strong odour, bits of solids, turbid

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	60.9	<200	E10044	Rayong
COD	mg/L	1.5	25	225	<400	E10046	Rayong
Oil & Grease	mg/L	-	3	6	≤10	E10048	Rayong
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	8.0	6-9	E10020	Rayong
Temperature *	°C	-	-	28.9	≤40	E10007	Rayong
Total Dissolved Solids at 180°C	mg/L	-	5	512	≤3000	E10100	Rayong
Total Suspended Solids	mg/L	-	5	23	<200	E10102	Rayong

Guideline : Environmental Impact Assessment Report of WHA Rayong 36 Industrial Estate

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

Work Order : RA2505388
Client : WHA Utilities and Power Public Company Limited
27 Moo 2, Tambon Phana Nakhon, Amphoe Nakhon Phathamni, Rayong,
Thailand, 21100
Project : WHA Rayong 36
Project Location : TOURFELLA MOTECH CO., LTD., J.13, WWT_WHARayong36_002_2568

Sample Number : RA2505388-001
Sampled Date : Jan 12, 2026 03:05 PM
Sample Name : Wastewater
Sampling Site : TOURFELLA MOTECH CO., LTD.
Contract ID : WWT_WHARayong36_002_2568
Plot : J.13
Date of Analysis : Jan 12, 2026
Sampled by : Natawat Athompranmarat (+323-4-0006)
Condition of Sample : 1x 500mL Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet/data, 1x 1L Plastic Bottle, refrigerated
Physical Properties : yellow, strong odour, bits of solids, turbid

Method	Testing Lab	Method Descriptions
E10020	Rayong	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
E10044	Rayong	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (C)
E10046	Rayong	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
E10048	Rayong	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
E10007	Rayong	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 2550 B
E10100	Rayong	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 2540 C
E10102	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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TESTING
No.0042

Analysis Report

Work Order : RA2505390
Client : WHA Utilities and Power Public Company Limited
27 Moo 2, Tambon Phana Nakhon, Amphoe Nakhon Phathamni, Rayong,
Thailand, 21100
Project : WHA Rayong 36
Project Location : Silverspark Development (Thailand) Co., Ltd., J.12, WWT_WHARayong36_013_2567

Sample Number : RA2505390-001
Sampled Date : Jan 12, 2026 10:18 AM
Sample Name : Wastewater
Sampling Site : Silverspark Development (Thailand) Co., Ltd.
Contract ID : WWT_WHARayong36_013_2567
Plot : J.12
Date of Analysis : Jan 12, 2026
Sampled by : Natawat Athompranmarat (+323-4-0006)
Condition of Sample : 1x 500mL Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet/data, 1x 1L Plastic Bottle, refrigerated
Physical Properties : yellow, strong odour, bits of solids, turbid

Method	Testing Lab	Method Descriptions
E10020	Rayong	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
E10044	Rayong	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (C)
E10046	Rayong	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
E10048	Rayong	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
E10007	Rayong	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 2550 B
E10100	Rayong	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 2540 C
E10102	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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TESTING
No.0042

Analysis Report

Work Order : RA2505386
Client : WHA Utilities and Power Public Company Limited
27 Moo 2, Tambon Phana Nakhon, Amphoe Nakhon Phathamni, Rayong,
Thailand, 21100
Project : WHA Rayong 36
Project Location : TAWAY Electric Company Limited, J.08_WWT_WHARayong36_004_2567

Date Received : Jan 12, 2026
Date Reported : Jan 19, 2026
Report Number : RA2505386-AA

Sample Number : RA2505386-001
Sampled Date : Jan 12, 2026 10:40 AM
Sample Name : Wastewater
Sampling Site : TAWAY Electric Company Limited
Contract ID : WWT_WHARayong36_004_2567
Plot : J.09
Date of Analysis : Jan 12, 2026
Sampled by : Natawat Athompranmarat (+323-4-0006)
Condition of Sample : 1x 500mL Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet/data, 1x 1L Plastic Bottle, refrigerated
Physical Properties : yellow, strong odour, some solids, turbid

Analytical Results

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	33.7	<200	EN6044	Rayong
COD	mg/L	1.5	25	102	<400	EN6046	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	EN6048	Rayong
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	8.2	6-9	EN6020	Rayong
Temperature *	°C	-	-	28.3	≤40	EN6097	Rayong
Total Dissolved Solids at 180°C	mg/L	-	5	360	≤3000	EN6100	Rayong
Total Suspended Solids	mg/L	-	5	10	≤200	EN6102	Rayong

Guideline : Environmental Impact Assessment Report of WHA Rayong 36 Industrial Estate
Comment : Sampling is not included in scope of accreditation ISO/IEC 17025
Key :

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

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TESTING
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Analysis Report

Work Order : RA2505387
Client : WHA Utilities and Power Public Company Limited
27 Moo 2, Tambon Phana Nakhon, Amphoe Nakhon Phathamni, Rayong,
Thailand, 21100
Project : WHA Rayong 36
Project Location : THAIYA CORPORATION LIMITED, J.05_WWT_WHARayong36_003_2567

Date Received : Jan 12, 2026
Date Reported : Jan 19, 2026
Report Number : RA2505387-AA

Sample Number : RA2505387-001
Sampled Date : Jan 12, 2026 11:10 AM
Sample Name : Wastewater
Sampling Site : THAIYA CORPORATION LIMITED
Contract ID : WWT_WHARayong36_003_2567
Plot : J.05
Date of Analysis : Jan 12, 2026
Sampled by : Natawat Athompranmarat (+323-4-0006)
Condition of Sample : 1x 500mL Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet/data, 1x 1L Plastic Bottle, refrigerated
Physical Properties : yellow, strong odour, lots of solids, highly turbid

Analytical Results

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	271	<200	EN6044	Rayong
COD	mg/L	1.5	25	478	<400	EN6046	Rayong
Oil & Grease	mg/L	-	3	10	≤10	EN6048	Rayong
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.3	6-9	EN6020	Rayong
Temperature *	°C	-	-	27.8	≤40	EN6097	Rayong
Total Dissolved Solids at 180°C	mg/L	-	5	488	≤3000	EN6100	Rayong
Total Suspended Solids	mg/L	-	5	107	≤200	EN6102	Rayong

Guideline : Environmental Impact Assessment Report of WHA Rayong 36 Industrial Estate
Comment : Sampling is not included in scope of accreditation ISO/IEC 17025
Key :

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TESTING
No.0042

Analysis Report

Work Order : RA2505386
Client : WHA Utilities and Power Public Company Limited
27 Moo 2, Tambon Phana Nakhon, Amphoe Nakhon Phathamni, Rayong,
Thailand, 21100
Project : WHA Rayong 36
Project Location : TAWAY Electric Company Limited, J.08_WWT_WHARayong36_004_2567

Date Received : Jan 12, 2026
Date Reported : Jan 19, 2026
Report Number : RA2505386-AA

Sample Number : RA2505386-001
Sampled Date : Jan 12, 2026 10:40 AM
Sample Name : Wastewater
Sampling Site : TAWAY Electric Company Limited
Contract ID : WWT_WHARayong36_004_2567
Plot : J.09
Date of Analysis : Jan 12, 2026
Sampled by : Natawat Athompranmarat (+323-4-0006)
Condition of Sample : 1x 500mL Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet/data, 1x 1L Plastic Bottle, refrigerated
Physical Properties : yellow, strong odour, some solids, turbid

Brief Method Summaries

The methods in the analysis report are short format, refer to full test methods in accordance with the ISO/IEC 17025 certificate no. specified in the analysis report.

Method	Testing Lab	Method Descriptions
EN60025	Rayong	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN6004	Rayong	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (C)
EN60048	Rayong	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN60048	Rayong	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN60097	Rayong	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 2550 B
EN6100	Rayong	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 2540 C
EN6102	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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TESTING
No.0042

Analysis Report

Work Order : RA2505387
Client : WHA Utilities and Power Public Company Limited
27 Moo 2, Tambon Phana Nakhon, Amphoe Nakhon Phathamni, Rayong,
Thailand, 21100
Project : WHA Rayong 36
Project Location : THAIYA CORPORATION LIMITED, J.05_WWT_WHARayong36_003_2567

Date Received : Jan 12, 2026
Date Reported : Jan 19, 2026
Report Number : RA2505387-AA

Sample Number : RA2505387-001
Sampled Date : Jan 12, 2026 11:10 AM
Sample Name : Wastewater
Sampling Site : THAIYA CORPORATION LIMITED
Contract ID : WWT_WHARayong36_003_2567
Plot : J.05
Date of Analysis : Jan 12, 2026
Sampled by : Natawat Athompranmarat (+323-4-0006)
Condition of Sample : 1x 500mL Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet/data, 1x 1L Plastic Bottle, refrigerated
Physical Properties : yellow, strong odour, lots of solids, highly turbid

Brief Method Summaries

The methods in the analysis report are short format, refer to full test methods in accordance with the ISO/IEC 17025 certificate no. specified in the analysis report.

Method	Testing Lab	Method Descriptions
EN60025	Rayong	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN6004	Rayong	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (C)
EN60048	Rayong	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
EN60048	Rayong	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN60097	Rayong	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 2550 B
EN6100	Rayong	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 2540 C
EN6102	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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TESTING
No.0042

Analysis Report

Work Order : RA2505384
Client : WHA Utilities and Power Public Company Limited
27 Moo 2, Tambon Phana Nakhon, Amphoe Nakhon Phathamni, Rayong,
Thailand, 21100
Project : WHA Rayong 36
Project Location : QUANTUM SPT COMPANY LIMITED_131_WWT_WHARayong36_005_2567

Sample Number : RA2505384-001
Sampled Date : Jan 12, 2026 09:10 AM
Sample Name : Wastewater
Sampling Site : QUANTUM SPT COMPANY LIMITED
Contract ID : WWT_WHARayong36_005_2567
Plot : J.31
Date of Analysis : Jan 12, 2026
Sampled by : Natawat Athompranmarat (+323-4-0006)
Condition of Sample : 1x 500mL Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet/data, 1x 1L Plastic Bottle, refrigerated
Physical Properties : yellow, strong odour, bits of solids, turbid

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	26.0	<200	E10044	Rayong
COD	mg/L	1.5	25	48	<400	E10046	Rayong
Oil & Grease	mg/L	-	3	4	<10	E10048	Rayong
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.3	6-9	E10020	Rayong
Temperature *	°C	-	-	28.9	<40	E10097	Rayong
Total Dissolved Solids at 180°C	mg/L	-	5	258	<3000	E10100	Rayong
Total Suspended Solids	mg/L	-	5	15	<200	E10102	Rayong

Guideline : Environmental Impact Assessment Report of WHA Rayong 36 Industrial Estate

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

Key :

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

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TESTING
No.0042

Analysis Report

Work Order : RA2505385
Client : WHA Utilities and Power Public Company Limited
27 Moo 2, Tambon Phana Nakhon, Amphoe Nakhon Phathamni, Rayong,
Thailand, 21100
Project : WHA Rayong 36
Project Location : T.C. PHARMACEUTICAL INDUSTRIES CO., LTD_116_WWT_WHARayong36_002_2567

Sample Number : RA2505385-001
Sampled Date : Jan 12, 2026 09:50 AM
Sample Name : Wastewater
Sampling Site : T.C. PHARMACEUTICAL INDUSTRIES CO., LTD.
Contract ID : WWT_WHARayong36_002_2567
Plot : J.16
Date of Analysis : Jan 12, 2026
Sampled by : Natawat Athompranmarat (+323-4-0006)
Condition of Sample : 1x 500mL Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet/data, 1x 1L Plastic Bottle, refrigerated
Physical Properties : yellow, some odour, some solid, no turbid

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	<2.0	<200	E10044	Rayong
COD	mg/L	1.5	25	<25	<400	E10046	Rayong
Oil & Grease	mg/L	-	3	<3	<10	E10048	Rayong
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.8	6-9	E10020	Rayong
Temperature *	°C	-	-	28.8	<40	E10097	Rayong
Total Dissolved Solids at 180°C	mg/L	-	5	228	<3000	E10100	Rayong
Total Suspended Solids	mg/L	-	5	<5	<200	E10102	Rayong

Guideline : Environmental Impact Assessment Report of WHA Rayong 36 Industrial Estate

Comment : Sampling is 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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TESTING
No.0042

Analysis Report

Work Order : RA2505384
Client : WHA Utilities and Power Public Company Limited
27 Moo 2, Tambon Phana Nakhon, Amphoe Nakhon Phathamni, Rayong,
Thailand, 21100
Project : WHA Rayong 36
Project Location : QUANTUM SPT COMPANY LIMITED_131_WWT_WHARayong36_005_2567

Sample Number : RA2505384-001
Sampled Date : Jan 12, 2026 09:10 AM
Sample Name : Wastewater
Sampling Site : QUANTUM SPT COMPANY LIMITED
Contract ID : WWT_WHARayong36_005_2567
Plot : J.31
Date of Analysis : Jan 12, 2026
Sampled by : Natawat Athompranmarat (+323-4-0006)
Condition of Sample : 1x 500mL Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet/data, 1x 1L Plastic Bottle, refrigerated
Physical Properties : yellow, strong odour, bits of solids, turbid

Method	Testing Lab	Method Descriptions
E10020	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
E10044	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (C)
E10046	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
E10048	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
E10097	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B
E10100	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C
E10102	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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Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. The report shall not be reproduced except in full without the written approval of the laboratory.

ALS Laboratory Group (Thailand) Co., Ltd. Rayong Life Sciences

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TESTING
No.0042

Analysis Report

Work Order : RA2505385
Client : WHA Utilities and Power Public Company Limited
27 Moo 2, Tambon Phana Nakhon, Amphoe Nakhon Phathamni, Rayong,
Thailand, 21100
Project : WHA Rayong 36
Project Location : T.C. PHARMACEUTICAL INDUSTRIES CO., LTD_116_WWT_WHARayong36_002_2567

Sample Number : RA2505385-001
Sampled Date : Jan 12, 2026 09:50 AM
Sample Name : Wastewater
Sampling Site : T.C. PHARMACEUTICAL INDUSTRIES CO., LTD.
Contract ID : WWT_WHARayong36_002_2567
Plot : J.16
Date of Analysis : Jan 12, 2026
Sampled by : Natawat Athompranmarat (+323-4-0006)
Condition of Sample : 1x 500mL Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet/data, 1x 1L Plastic Bottle, refrigerated
Physical Properties : yellow, some odour, some solid, no turbid

Method	Testing Lab	Method Descriptions
E10020	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
E10044	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (C)
E10046	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
E10048	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
E10097	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B
E10100	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C
E10102	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 : RA2505382
Client : WHA Utilities and Power Public Company Limited
27 Moo 2, Tambon Phana Nakhon, Amphoe Nakhon Phathamni, Rayong,
Thailand, 21100
Project : WHA Rayong 36
Project Location : Faurecia Automotive Parts (Thailand) Co., Ltd., J11-2, WWT_WHARayong36_014_2567

Sample Number : RA2505382-001
Sampled Date : Jan 12, 2026 10:20 AM
Sample Name : Wastewater
Sampling Site : Faurecia Automotive Parts (Thailand) Co., Ltd.
Contract ID : WWT_WHARayong36_014_2567
Plot : J11-2
Date of Analysis : Jan 12, 2026
Sampled by : Natawat Athompranmarat (+323-4-0006)
Condition of Sample : 1x 500mL Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet/data, 1x 1L Plastic Bottle, refrigerated
Physical Properties : yellow, strong odour, bits of solids, turbid

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	135	<200	E10044	Rayong
COD	mg/L	1.5	25	317	<400	E10046	Rayong
Oil & Grease	mg/L	-	3	5	≤10	E10048	Rayong
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.4	6-9	E10020	Rayong
Temperature *	°C	-	-	28	≤40	E10097	Rayong
Total Dissolved Solids at 180°C	mg/L	-	5	538	≤3000	E10100	Rayong
Total Suspended Solids	mg/L	-	5	39	≤200	E10102	Rayong

Guideline : Environmental Impact Assessment Report of WHA Rayong 36 Industrial Estate

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

Key :

- LOD : Limit of Detection
- * : Lower than LOQ (Limit of Quantification) / LOR (Limit of Reporting)
- Analyte(s) marked * are not included in scope of Accreditation ISO/IEC 17025

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Analysis Report

Work Order : RA2505383
Client : WHA Utilities and Power Public Company Limited
27 Moo 2, Tambon Phana Nakhon, Amphoe Nakhon Phathamni, Rayong,
Thailand, 21100
Project : WHA Rayong 36
Project Location : QUING INDUSTRY (THAILAND) CO., LTD., J110_WWT_WHARayong36_001_2568

Sample Number : RA2505383-001
Sampled Date : Jan 12, 2026 10:30 AM
Sample Name : Wastewater
Sampling Site : QUING INDUSTRY (THAILAND) CO., LTD.
Contract ID : WWT_WHARayong36_001_2568
Plot : J110
Date of Analysis : Jan 12, 2026
Sampled by : Natawat Athompranmarat (+323-4-0006)
Condition of Sample : 1x 500mL Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet/data, 1x 1L Plastic Bottle, refrigerated
Physical Properties : yellow, strong odour, bits of solids, turbid

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	42.8	<200	E10044	Rayong
COD	mg/L	1.5	25	102	<400	E10046	Rayong
Oil & Grease	mg/L	-	3	5	≤10	E10048	Rayong
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	8.0	6-9	E10020	Rayong
Temperature *	°C	-	-	27.7	≤40	E10097	Rayong
Total Dissolved Solids at 180°C	mg/L	-	5	244	≤3000	E10100	Rayong
Total Suspended Solids	mg/L	-	5	16	≤200	E10102	Rayong

Guideline : Environmental Impact Assessment Report of WHA Rayong 36 Industrial Estate

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

Key :

- LOD : Limit of Detection
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Analysis Report

Work Order : RA2505382
Client : WHA Utilities and Power Public Company Limited
27 Moo 2, Tambon Phana Nakhon, Amphoe Nakhon Phathamni, Rayong,
Thailand, 21100
Project : WHA Rayong 36
Project Location : Faurecia Automotive Parts (Thailand) Co., Ltd., J11-2, WWT_WHARayong36_014_2567

Sample Number : RA2505382-001
Sampled Date : Jan 12, 2026 10:20 AM
Sample Name : Wastewater
Sampling Site : Faurecia Automotive Parts (Thailand) Co., Ltd.
Contract ID : WWT_WHARayong36_014_2567
Plot : J11-2
Date of Analysis : Jan 12, 2026
Sampled by : Natawat Athompranmarat (+323-4-0006)
Condition of Sample : 1x 500mL Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet/data, 1x 1L Plastic Bottle, refrigerated
Physical Properties : yellow, strong odour, bits of solids, turbid

Method	Testing Lab	Method Descriptions
E10020	Rayong	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
E10044	Rayong	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (C)
E10046	Rayong	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
E10048	Rayong	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
E10097	Rayong	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 2550 B
E10100	Rayong	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 2540 C
E10102	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 : RA2505383
Client : WHA Utilities and Power Public Company Limited
27 Moo 2, Tambon Phana Nakhon, Amphoe Nakhon Phathamni, Rayong,
Thailand, 21100
Project : WHA Rayong 36
Project Location : QUING INDUSTRY (THAILAND) CO., LTD., J110_WWT_WHARayong36_001_2568

Sample Number : RA2505383-001
Sampled Date : Jan 12, 2026 10:30 AM
Sample Name : Wastewater
Sampling Site : QUING INDUSTRY (THAILAND) CO., LTD.
Contract ID : WWT_WHARayong36_001_2568
Plot : J110
Date of Analysis : Jan 12, 2026
Sampled by : Natawat Athompranmarat (+323-4-0006)
Condition of Sample : 1x 500mL Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet/data, 1x 1L Plastic Bottle, refrigerated
Physical Properties : yellow, strong odour, bits of solids, turbid

Method	Testing Lab	Method Descriptions
E10020	Rayong	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
E10044	Rayong	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (C)
E10046	Rayong	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
E10048	Rayong	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
E10097	Rayong	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 2550 B
E10100	Rayong	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 2540 C
E10102	Rayong	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

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TESTING
No.0042

Analysis Report

Work Order : RA2505379
Client : WHA Utilities and Power Public Company Limited
27 Moo 2, Tambon Phana Nakhon, Amphoe Nakhon Phathamni, Rayong,
Thailand, 21100
Project : WHA Rayong 36
Project Location : BYD AUTO (THAILAND) CO.,LTD.,J32_WWT_WHARayong36_011_2567

Sample Number : RA2505379-001
Sampled Date : Jan 12, 2026 02:05 PM
Sample Name : Wastewater : Point No.1
Sampling Site : BYD AUTO (THAILAND) CO.,LTD.
Contract ID : WWT_WHARayong36_011_2567
Plot : J32
Date of Analysis : Jan 12, 2026
Sampled by : Natawat Athompranmarat (+323-4-0006)
Condition of Sample : 1x 500mL Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet/data, 1x 1L Plastic Bottle, refrigerated
Physical Properties : yellow, strong odour, some solids, turbid

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	66.1	<200	E10044	Rayong
COD	mg/L	1.5	25	183	<400	E10046	Rayong
Oil & Grease	mg/L	-	3	10	≤10	E10048	Rayong
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.8	6-9	E10020	Rayong
Temperature *	°C	-	-	29.1	≤40	E10097	Rayong
Total Dissolved Solids at 180°C	mg/L	-	5	412	≤3000	E10100	Rayong
Total Suspended Solids	mg/L	-	5	14	≤200	E10102	Rayong

Guideline : Environmental Impact Assessment Report of WHA Rayong 36 Industrial Estate

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

Key :

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

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TESTING
No.0042

Analysis Report

Work Order : RA2505380
Client : WHA Utilities and Power Public Company Limited
27 Moo 2, Tambon Phana Nakhon, Amphoe Nakhon Phathamni, Rayong,
Thailand, 21100
Project : WHA Rayong 36
Project Location : CHOH INDUSTRIAL (THAILAND) COMPANY LIMITED,J21_WWT_WHARayong36_012_2567

Sample Number : RA2505380-001
Sampled Date : Jan 12, 2026 09:30 AM
Sample Name : Wastewater
Sampling Site : CHOH INDUSTRIAL (THAILAND) COMPANY LIMITED
Contract ID : WWT_WHARayong36_012_2567
Plot : J21
Date of Analysis : Jan 12, 2026
Sampled by : Natawat Athompranmarat (+323-4-0006)
Condition of Sample : 1x 500mL Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet/data, 1x 1L Plastic Bottle, refrigerated
Physical Properties : yellow, strong odour, some solid, no turbid

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	15.9	<200	E10044	Rayong
COD	mg/L	1.5	25	41	<400	E10046	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	E10048	Rayong
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.0	6-9	E10020	Rayong
Temperature *	°C	-	-	25	≤40	E10097	Rayong
Total Dissolved Solids at 180°C	mg/L	-	5	308	≤3000	E10100	Rayong
Total Suspended Solids	mg/L	-	5	9	≤200	E10102	Rayong

Guideline : Environmental Impact Assessment Report of WHA Rayong 36 Industrial Estate

Comment : Sampling is 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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TESTING
No.0042

Analysis Report

Work Order : RA2505379
Client : WHA Utilities and Power Public Company Limited
27 Moo 2, Tambon Phana Nakhon, Amphoe Nakhon Phathamni, Rayong,
Thailand, 21100
Project : WHA Rayong 36
Project Location : BYD AUTO (THAILAND) CO.,LTD.,J32_WWT_WHARayong36_011_2567

Sample Number : RA2505379-001
Sampled Date : Jan 12, 2026 02:05 PM
Sample Name : Wastewater : Point No.1
Sampling Site : BYD AUTO (THAILAND) CO.,LTD.
Contract ID : WWT_WHARayong36_011_2567
Plot : J32
Date of Analysis : Jan 12, 2026
Sampled by : Natawat Athompranmarat (+323-4-0006)
Condition of Sample : 1x 500mL Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet/data, 1x 1L Plastic Bottle, refrigerated
Physical Properties : yellow, strong odour, some solids, turbid

Method	Testing Lab	Method Descriptions
E10020	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
E10044	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (C)
E10046	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
E10048	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
E10097	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B
E10100	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C
E10102	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

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TESTING
No.0042

Analysis Report

Work Order : RA2505380
Client : WHA Utilities and Power Public Company Limited
27 Moo 2, Tambon Phana Nakhon, Amphoe Nakhon Phathamni, Rayong,
Thailand, 21100
Project : WHA Rayong 36
Project Location : CHOH INDUSTRIAL (THAILAND) COMPANY LIMITED,J21_WWT_WHARayong36_012_2567

Sample Number : RA2505380-001
Sampled Date : Jan 12, 2026 09:30 AM
Sample Name : Wastewater
Sampling Site : CHOH INDUSTRIAL (THAILAND) COMPANY LIMITED
Contract ID : WWT_WHARayong36_012_2567
Plot : J21
Date of Analysis : Jan 12, 2026
Sampled by : Natawat Athompranmarat (+323-4-0006)
Condition of Sample : 1x 500mL Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet/data, 1x 1L Plastic Bottle, refrigerated
Physical Properties : yellow, strong odour, some solid, no turbid

Method	Testing Lab	Method Descriptions
E10020	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
E10044	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (C)
E10046	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
E10048	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
E10097	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B
E10100	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C
E10102	Rayong	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

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TESTING
No.0042

Analysis Report

Work Order : RA2505377
Client : WHA Utilities and Power Public Company Limited
27 Moo 2, Tambon Phana Nakhon, Amphoe Nakhon Phathamni, Rayong,
Thailand, 21100
Project : WHA Rayong 36
Project Location : BYD AUTO (THAILAND) CO.,LTD.,J2B8_WWT_WHARayong36_010_2567

Sample Number : RA2505377-001
Sampled Date : Jan 12, 2026 02:15 PM
Sample Name : Wastewater : Point No.3
Sampling Site : BYD AUTO (THAILAND) CO.,LTD.
Contract ID : WWT_WHARayong36_010_2567
Plot : J2B8
Date of Analysis : Jan 12, 2026
Sampled by : Natawat Athompranmarat (+323-4-0006)
Condition of Sample : 1x 500mL Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet/data, 1x 1L Plastic Bottle, refrigerated
Physical Properties : yellow, strong odour, some solids, turbid

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	33.1	<200	E10044	Rayong
COD	mg/L	1.5	25	64	<400	E10046	Rayong
Oil & Grease	mg/L	-	3	3	≤10	E10048	Rayong
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.8	6-9	E10020	Rayong
Temperature *	°C	-	-	28.6	≤40	E10097	Rayong
Total Dissolved Solids at 180°C	mg/L	-	5	320	≤3000	E10100	Rayong
Total Suspended Solids	mg/L	-	5	10	<200	E10102	Rayong

Guideline : Environmental Impact Assessment Report of WHA Rayong 36 Industrial Estate

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

Key :

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

Signatories

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

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TESTING
No.0042

Analysis Report

Work Order : RA2505378
Client : WHA Utilities and Power Public Company Limited
27 Moo 2, Tambon Phana Nakhon, Amphoe Nakhon Phathamni, Rayong,
Thailand, 21100
Project : WHA Rayong 36
Project Location : BYD AUTO (THAILAND) CO.,LTD.,J29_WWT_WHARayong36_006_2567

Sample Number : RA2505378-001
Sampled Date : Jan 12, 2026 02:00 PM
Sample Name : Wastewater : Point No.2
Sampling Site : BYD AUTO (THAILAND) CO.,LTD.
Contract ID : WWT_WHARayong36_006_2567
Plot : J29
Date of Analysis : Jan 12, 2026
Sampled by : Natawat Athompranmarat (+323-4-0006)
Condition of Sample : 1x 500mL Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet/data, 1x 1L Plastic Bottle, refrigerated
Physical Properties : yellow, strong odour, some solids, turbid

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	41.2	<200	E10044	Rayong
COD	mg/L	1.5	25	144	<400	E10046	Rayong
Oil & Grease	mg/L	-	3	5	≤10	E10048	Rayong
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	7.2	6-9	E10020	Rayong
Temperature *	°C	-	-	28.1	≤40	E10097	Rayong
Total Dissolved Solids at 180°C	mg/L	-	5	332	≤3000	E10100	Rayong
Total Suspended Solids	mg/L	-	5	21	<200	E10102	Rayong

Guideline : Environmental Impact Assessment Report of WHA Rayong 36 Industrial Estate

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

Key :

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TESTING
No.0042

Analysis Report

Work Order : RA2505377
Client : WHA Utilities and Power Public Company Limited
27 Moo 2, Tambon Phana Nakhon, Amphoe Nakhon Phathamni, Rayong,
Thailand, 21100
Project : WHA Rayong 36
Project Location : BYD AUTO (THAILAND) CO.,LTD.,J2B8_WWT_WHARayong36_010_2567

Sample Number : RA2505377-001
Sampled Date : Jan 12, 2026 02:15 PM
Sample Name : Wastewater : Point No.3
Sampling Site : BYD AUTO (THAILAND) CO.,LTD.
Contract ID : WWT_WHARayong36_010_2567
Plot : J2B8
Date of Analysis : Jan 12, 2026
Sampled by : Natawat Athompranmarat (+323-4-0006)
Condition of Sample : 1x 500mL Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet/data, 1x 1L Plastic Bottle, refrigerated
Physical Properties : yellow, strong odour, some solids, turbid

Method	Testing Lab	Method Descriptions
E10020	Rayong	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
E10044	Rayong	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (C)
E10046	Rayong	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
E10048	Rayong	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
E10097	Rayong	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 2550 B
E10100	Rayong	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 2540 C
E10102	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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TESTING
No.0042

Analysis Report

Work Order : RA2505378
Client : WHA Utilities and Power Public Company Limited
27 Moo 2, Tambon Phana Nakhon, Amphoe Nakhon Phathamni, Rayong,
Thailand, 21100
Project : WHA Rayong 36
Project Location : BYD AUTO (THAILAND) CO.,LTD.,J29_WWT_WHARayong36_006_2567

Sample Number : RA2505378-001
Sampled Date : Jan 12, 2026 02:00 PM
Sample Name : Wastewater : Point No.2
Sampling Site : BYD AUTO (THAILAND) CO.,LTD.
Contract ID : WWT_WHARayong36_006_2567
Plot : J29
Date of Analysis : Jan 12, 2026
Sampled by : Natawat Athompranmarat (+323-4-0006)
Condition of Sample : 1x 500mL Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet/data, 1x 1L Plastic Bottle, refrigerated
Physical Properties : yellow, strong odour, some solids, turbid

Method	Testing Lab	Method Descriptions
E10020	Rayong	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
E10044	Rayong	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (C)
E10046	Rayong	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
E10048	Rayong	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
E10097	Rayong	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 2550 B
E10100	Rayong	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 2540 C
E10102	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 : RA2505374
Client : WHA Utilities and Power Public Company Limited
27 Moo 2, Tambon Phana Nakhon, Amphoe Nakhon Phathamni, Rayong,
Thailand, 21100
Project : WHA Rayong 36
Project Location : BYD AUTO (THAILAND) CO.,LTD.,J19C_WWT_WHARayong36_009_2567

Sample Number : RA2505374-001
Sampled Date : Jan 12, 2026 02:20 PM
Sample Name : Wastewater : Point No.4
Sampling Site : BYD AUTO (THAILAND) CO.,LTD.
Contract ID : WWT_WHARayong36_009_2567
Plot : J19C
Date of Analysis : Jan 12, 2026
Sampled by : Natawat Athompranmarat (+323-4-0006)
Condition of Sample : 1x 500mL Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet/data, 1x 1L Plastic Bottle, refrigerated
Physical Properties : yellow, strong odour, some solids, turbid

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	52.6	<200	E10044	Rayong
COD	mg/L	1.5	25	120	<400	E10046	Rayong
Oil & Grease	mg/L	-	3	4	≤10	E10048	Rayong
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	8.0	6-9	E10020	Rayong
Temperature *	°C	-	-	28	≤40	E10097	Rayong
Total Dissolved Solids at 180°C	mg/L	-	5	328	≤3000	E10100	Rayong
Total Suspended Solids	mg/L	-	5	20	≤200	E10102	Rayong

Guideline : Environmental Impact Assessment Report of WHA Rayong 36 Industrial Estate

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

Key :

- LOD : Limit of Detection
- * : Lower than LOQ (Limit of Quantification) / LOR (Limit of Reporting)
- Analyte(s) marked * are not included in scope of Accreditation ISO/IEC 17025

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Analysis Report

Work Order : RA2505375
Client : WHA Utilities and Power Public Company Limited
27 Moo 2, Tambon Phana Nakhon, Amphoe Nakhon Phathamni, Rayong,
Thailand, 21100
Project : WHA Rayong 36
Project Location : BYD AUTO (THAILAND) CO.,LTD.,J19D_WWT_WHARayong36_007_2567

Sample Number : RA2505375-001
Sampled Date : Jan 12, 2026 02:30 PM
Sample Name : Wastewater : Point No.5
Sampling Site : BYD AUTO (THAILAND) CO.,LTD.
Contract ID : WWT_WHARayong36_007_2567
Plot : J19D
Date of Analysis : Jan 12, 2026
Sampled by : Natawat Athompranmarat (+323-4-0006)
Condition of Sample : 1x 500mL Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet/data, 1x 1L Plastic Bottle, refrigerated
Physical Properties : yellow, some odour, some solid, no turbid

Analyte	Unit	LOD	LOQ	Result	Guideline	Method	Testing Lab
Chemical Parameters							
BOD (5 days at 20°C)	mg/L	-	2.0	11.2	<200	E10044	Rayong
COD	mg/L	1.5	25	32	<400	E10046	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	E10048	Rayong
Physical and Aggregate Properties							
pH - Field *	pH Unit	-	1.0	8.0	6-9	E10020	Rayong
Temperature *	°C	-	-	28.4	≤40	E10097	Rayong
Total Dissolved Solids at 180°C	mg/L	-	5	210	≤3000	E10100	Rayong
Total Suspended Solids	mg/L	-	5	<5	≤200	E10102	Rayong

Guideline : Environmental Impact Assessment Report of WHA Rayong 36 Industrial Estate

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

Key :

- LOD : Limit of Detection
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Analysis Report

Work Order : RA2505374
Client : WHA Utilities and Power Public Company Limited
27 Moo 2, Tambon Phana Nakhon, Amphoe Nakhon Phathamni, Rayong,
Thailand, 21100
Project : WHA Rayong 36
Project Location : BYD AUTO (THAILAND) CO.,LTD.,J19C_WWT_WHARayong36_009_2567

Sample Number : RA2505374-001
Sampled Date : Jan 12, 2026 02:20 PM
Sample Name : Wastewater : Point No.4
Sampling Site : BYD AUTO (THAILAND) CO.,LTD.
Contract ID : WWT_WHARayong36_009_2567
Plot : J19C
Date of Analysis : Jan 12, 2026
Sampled by : Natawat Athompranmarat (+323-4-0006)
Condition of Sample : 1x 500mL Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet/data, 1x 1L Plastic Bottle, refrigerated
Physical Properties : yellow, strong odour, some solids, turbid

Method	Testing Lab	Method Descriptions
E10020	Rayong	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
E10044	Rayong	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (C)
E10046	Rayong	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
E10048	Rayong	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
E10097	Rayong	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 2550 B
E10100	Rayong	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 2540 C
E10102	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 : RA2505375
Client : WHA Utilities and Power Public Company Limited
27 Moo 2, Tambon Phana Nakhon, Amphoe Nakhon Phathamni, Rayong,
Thailand, 21100
Project : WHA Rayong 36
Project Location : BYD AUTO (THAILAND) CO.,LTD.,J19D_WWT_WHARayong36_007_2567

Sample Number : RA2505375-001
Sampled Date : Jan 12, 2026 02:30 PM
Sample Name : Wastewater : Point No.5
Sampling Site : BYD AUTO (THAILAND) CO.,LTD.
Contract ID : WWT_WHARayong36_007_2567
Plot : J19D
Date of Analysis : Jan 12, 2026
Sampled by : Natawat Athompranmarat (+323-4-0006)
Condition of Sample : 1x 500mL Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Oil & Grease, 1x Logsheet/data, 1x 1L Plastic Bottle, refrigerated
Physical Properties : yellow, some odour, some solid, no turbid

Method	Testing Lab	Method Descriptions
E10020	Rayong	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
E10044	Rayong	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (C)
E10046	Rayong	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
E10048	Rayong	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
E10097	Rayong	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 2550 B
E10100	Rayong	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 2540 C
E10102	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 / Test Report

Client : WHA Rayong 36 Company Limited
777 Moo 13 WHA TOWER, 23rd - 25th Floor, Debaratna Road (Bangna-Trad) KM.7,
Bang Kaeo, Bang Phli, Samut Prakan Thailand 10540
P/O : 54260026
Project Name : Monitoring
Project Location : WHA Rayong 36



TESTING
No.0042
Lot ID: 2643190
Date Received : Jun 17, 2026
Date Reported : Jun 23, 2026
Report Number : 36043373-1

Page 2 of 3

Sample Number 2643190-3
Sampled Date Jun 17, 2026 9:55 AM
Sample Description Underground Water
Location แหล่งน้ำบาดาล 1 บริเวณพื้นที่ก่อสร้าง (UW3)
Date Analysis Commenced Jun 17, 2026
Condition of Sample Contained in three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property Colorless, odourless, no solid and turbid

Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline (1)	Guideline (2)	Method	Testing Location
Metals Testing								
Mercury	mg/L	0.0001	0.0005	Not Detected	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	No Standard	No Standard	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	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	0.01	≤5	≤15	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3120 B, 3030 F	Rayong
Water Testing								
Carbonate Hardness as CaCO ₃ *	mg/L	-	1	17	No Standard	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2320 B	Rayong
Chloride as Cl ⁻ *	mg/L	0.5	1	37	≤250	≤500	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500-Cl (B)	Rayong
Nitrate as N *	mg/L	0.015	0.05	17.2	No Standard	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500-NO ₃ (E)	Rayong
Non-Carbonate Hardness as CaCO ₃ *	mg/L	-	1	42	≤200	≤250	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2320 B	Rayong

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

Approved by

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



Analysis / Test Report

Client : WHA Rayong 36 Company Limited
777 Moo 13 WHA TOWER, 23rd - 25th Floor, Debaratna Road (Bangna-Trad) KM.7,
Bang Kaeo, Bang Phli, Samut Prakan Thailand 10540
P/O : 54260026
Project Name : Monitoring
Project Location : WHA Rayong 36



TESTING
No.0042
Lot ID: 2643190
Date Received : Jun 17, 2026
Date Reported : Jun 23, 2026
Report Number : 36043373-1

Page 3 of 3

Sample Number 2643190-3
Sampled Date Jun 17, 2026 9:55 AM
Sample Description Underground Water
Location แหล่งน้ำบาดาล 1 บริเวณพื้นที่ก่อสร้าง (UW3)
Date Analysis Commenced Jun 17, 2026
Condition of Sample Contained in three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property Colorless, odourless, no solid and turbid

Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline (1)	Guideline (2)	Method	Testing Location
Water Testing								
pH at 25 degree C *	-	-	-	5.8	7.0-8.5	6.5-9.2	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Rayong
Total Alkalinity as CaCO ₃ *	mg/L	-	1	17	No Standard	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2320 B	Rayong
Total Dissolved Solids Dried at 180 degree C *	mg/L	-	5	248	≤600	≤1200	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong
Total Hardness as CaCO ₃ *	mg/L	-	1	59	≤300	≤500	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2340 C	Rayong
Turbidity *	NTU	-	0.1	0.2	≤5	≤20	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2120 B	Rayong

Guideline : Notification of the Ministry of Natural Resource and Environment, dated March 24, B.E.2551 (2008), published in the Royal Government Gazette, Vol. 125, Part 45 (2), dated May 21, B.E.2551 (2008).
(1) Suitable Allowance, (2) Maximum allowable.

Sampling By : Surawit Narapong

Remark :

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

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Approved by

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Photchana Seeda
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Analysis / Test Report

Client : WHA Rayong 36 Company Limited
777 Moo 13 WHA TOWER, 23rd - 25th Floor, Debaratna Road (Bangna-Trad) KM.7, Bang
Kaeo, Bang Phli, Samut Prakan Thailand 10540
P/O : 54260026
Project Name : Monitoring
Project Location : WHA Rayong 36



TESTING
No.0042
Lot ID: 2643218
Date Received : Jun 17, 2026
Date Reported : Jun 23, 2026
Report Number : 3604337-1

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Sample Number 2643218-1
Sampled Date Jun 17, 2026 10:58 AM
Sample Description Ground Water
Location แหล่งน้ำบาดาลตามลำน้ำใต้ บริเวณพื้นที่ก่อสร้างอาคารและระบบนิเวศน์บริเวณท่าเรือการประมง (MW1)
Date Analysis Commenced Jun 17, 2026
Condition of Sample Contained in three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property Colorless, some odour, solid and no turbid

Analyte	Unit	LOD	LOQ (LOB)	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	0.23	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	0.02	≤0.5	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3120 B, 3030 F	Rayong

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

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Analysis / Test Report

Client : WHA Rayong 36 Company Limited
777 Moo 13 WHA TOWER, 23rd - 25th Floor, Debaratna Road (Bangna-Trad) KM.7, Bang
Kaeo, Bang Phli, Samut Prakan Thailand 10540
P/O : 54260026
Project Name : Monitoring
Project Location : WHA Rayong 36



TESTING
No.0042
Lot ID: 2643218
Date Received : Jun 17, 2026
Date Reported : Jun 23, 2026
Report Number : 3604337-1

Page 2 of 4

Sample Number 2643218-1
Sampled Date Jun 17, 2026 10:58 AM
Sample Description Ground Water
Location แหล่งน้ำบาดาลตามลำน้ำใต้ บริเวณพื้นที่ก่อสร้างอาคารและระบบนิเวศน์บริเวณท่าเรือการประมง (MW1)
Date Analysis Commenced Jun 17, 2026
Condition of Sample Contained in three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property Colorless, some odour, solid and no turbid

Analyte	Unit	LOD	LOQ (LOB)	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	<0.01	≤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							
Carbonate Hardness as CaCO ₃ *	mg/L	-	1	29	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2320 B	Rayong
Chloride as Cl ⁻ *	mg/L	0.5	1	26	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500-Cl (B)	Rayong
Nitrate as N *	mg/L	0.015	0.05	9.28	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500-NO ₃ (E)	Rayong

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

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Analysis / Test Report

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P/O : 54260026
Project Name : Monitoring
Project Location : WHA Rayong 36



TESTING
No.0042
Lot ID: 2643218
Date Received : Jun 17, 2026
Date Reported : Jun 23, 2026
Report Number : 3604357-1

Page 3 of 4

Sample Number	2643218-1						
Sample Date	Jun 17, 2026 10:58 AM						
Sample Description	Ground Water						
Location	พื้นที่นอกเขตอุตสาหกรรมน้ำประปา บริเวณพื้นที่ติดตั้งฝักกักตุนและควบคุมสิ่งปนเปื้อนของน้ำที่โครงการรังสิต (MW1)						
Date Analysis Commenced	Jun 17, 2026						
Condition of Sample	Contained in three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						
Physical Property	Colorless, some odour, solid and no turbid						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Non-Carbonate Hardness as CaCO ₃ *	mg/L	-	1	28	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2320 B	Rayong
pH at 25 degree C *	-	-	-	6.1	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Rayong
Total Alkalinity as CaCO ₃ *	mg/L	-	1	29	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2320 B	Rayong
Total Dissolved Solids Dried at 180 degree C *	mg/L	-	5	204	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong
Total Hardness as CaCO ₃ *	mg/L	-	1	57	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
Turbidity *	NTU	-	0.1	3.5	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2130 B	Rayong

Guideline : Notification of the National Environmental Board, No. 20, B.E.2543

Sampling By : Suravit Narapong

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

Results apply to the sample(s) as identified, 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 / Test Report

Client : WHA Rayong 36 Company Limited
777 Moo 13 WHA TOWER, 23rd - 25th Floor, Debaratna Road (Bangna-Trad) KM.7, Bang
Kong, Bang Phli, Samut Prakan Thailand 10540
P/O : 54260026
Project Name : Monitoring
Project Location : WHA Rayong 36



TESTING
No.0042
Lot ID: 2643218
Date Received : Jun 17, 2026
Date Reported : Jun 23, 2026
Report Number : 3604357-1

Page 4 of 4

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

Client : WHA Rayong 36 Company Limited
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P/O : 54260026
Project Name : Monitoring
Project Location : WHA Rayong 36



TESTING
No.0042
Lot ID: 2643218
Date Received : Jun 17, 2026
Date Reported : Jun 23, 2026
Report Number : 3604358-1

Page 1 of 4

Sample Number	2643218-2						
Sample Date	Jun 17, 2026 11:20 AM						
Sample Description	Ground Water						
Location	พื้นที่นอกเขตอุตสาหกรรมน้ำประปา บริเวณพื้นที่ติดตั้งฝักกักตุนและควบคุมสิ่งปนเปื้อนของน้ำที่โครงการรังสิต (MW2)						
Date Analysis Commenced	Jun 17, 2026						
Condition of Sample	Contained in three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						
Physical Property	Colorless, some odour, solid and no turbid						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
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	<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	0.81	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	0.06	≤0.5	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3120 B, 3030 F	Rayong

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Analysis / Test Report

Client : WHA Rayong 36 Company Limited
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P/O : 54260026
Project Name : Monitoring
Project Location : WHA Rayong 36



TESTING
No.0042
Lot ID: 2643218
Date Received : Jun 17, 2026
Date Reported : Jun 23, 2026
Report Number : 3604358-1

Page 2 of 4

Sample Number	2643218-2						
Sample Date	Jun 17, 2026 11:20 AM						
Sample Description	Ground Water						
Location	พื้นที่นอกเขตอุตสาหกรรมน้ำประปา บริเวณพื้นที่ติดตั้งฝักกักตุนและควบคุมสิ่งปนเปื้อนของน้ำที่โครงการรังสิต (MW2)						
Date Analysis Commenced	Jun 17, 2026						
Condition of Sample	Contained in three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						
Physical Property	Colorless, some odour, solid and no turbid						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
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	Not Detected	≤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							
Carbonate Hardness as CaCO ₃ *	mg/L	-	1	37	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2320 B	Rayong
Chloride as Cl ⁻ *	mg/L	0.5	1	12	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500-CI (B)	Rayong
Nitrate as N *	mg/L	0.015	0.05	0.79	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500-NO3 (I)	Rayong

Results apply to the sample(s) as identified, 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 / Test Report

Client : WHA Rayong 36 Company Limited
777 Moo 13 WHA TOWER, 23rd - 25th Floor, Debaratna Road (Bangna-Trad) KM.7, Bang
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P/O : 54260026
Project Name : Monitoring
Project Location : WHA Rayong 36



TESTING
No.0042
Lot ID: 2643218
Date Received : Jun 17, 2026
Date Reported : Jun 23, 2026
Report Number : 3604358-1

Page 3 of 4

Sample Number	2643218-2						
Sample Date	Jun 17, 2026 11:20 AM						
Sample Description	Ground Water						
Location	แปลงผลการตรวจน้ำใต้ดิน บริเวณพื้นที่ขุดเจาะน้ำบาดาลและระบบกรองน้ำของพื้นที่โครงการปิโตรเคมี (MW2)						
Date Analysis Commenced	Jun 17, 2026						
Condition of Sample	Contained in three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						
Physical Property	Colorless, some odour, solid and no turbid						
Analyte	Unit	LOD	LOQ (LOD)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Non-Carbonate Hardness as CaCO ₃ *	mg/L	-	1	<1	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2320 B	Rayong
pH at 25 degree C *	-	-	-	6.4	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Rayong
Total Alkalinity as CaCO ₃ *	mg/L	-	1	40	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2320 B	Rayong
Total Dissolved Solids Dried at 180 degree C *	mg/L	-	5	147	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong
Total Hardness as CaCO ₃ *	mg/L	-	1	37	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	18	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Rayong
Turbidity *	NTU	-	0.1	10.0	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2130 B	Rayong

Guideline : Notification of the National Environmental Board, No. 20, B.E.2543

Sampling By : Suravit Narapong

Remarks :
- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOQ (Limit of Reporting)
- Analyte(s) marked * : Inquire not included in scope of Accreditation ISO/IEC 17025.

Results apply to the sample(s) as identified, 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 / Test Report

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P/O : 54260026
Project Name : Monitoring
Project Location : WHA Rayong 36



TESTING
No.0042
Lot ID: 2643218
Date Received : Jun 17, 2026
Date Reported : Jun 23, 2026
Report Number : 3604358-1

Page 4 of 4

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

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P/O : 54260026
Project Name : Monitoring
Project Location : WHA Rayong 36



TESTING
No.0042
Lot ID: 2643218
Date Received : Jun 17, 2026
Date Reported : Jun 23, 2026
Report Number : 3604359-1

Page 1 of 4

Sample Number	2643218-3						
Sample Date	Jun 17, 2026 11:42 AM						
Sample Description	Ground Water						
Location	แปลงผลการตรวจน้ำใต้ดิน บริเวณพื้นที่ขุดเจาะน้ำบาดาลและระบบกรองน้ำของพื้นที่โครงการปิโตรเคมี (MW3)						
Date Analysis Commenced	Jun 17, 2026						
Condition of Sample	Contained in three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						
Physical Property	Yellow, some odour, solid and turbid						
Analyte	Unit	LOD	LOQ (LOD)	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	1.46	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	<0.005	≤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	0.04	≤0.5	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3120 B, 3030 F	Rayong

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Analysis / Test Report

Client : WHA Rayong 36 Company Limited
777 Moo 13 WHA TOWER, 23rd - 25th Floor, Debaratna Road (Bangna-Trad) KM.7, Bang
Kong, Bang Phli, Samut Prakan Thailand 10540
P/O : 54260026
Project Name : Monitoring
Project Location : WHA Rayong 36



TESTING
No.0042
Lot ID: 2643218
Date Received : Jun 17, 2026
Date Reported : Jun 23, 2026
Report Number : 3604359-2

Page 2 of 4

Sample Number	2643218-3						
Sample Date	Jun 17, 2026 11:42 AM						
Sample Description	Ground Water						
Location	แปลงผลการตรวจน้ำใต้ดิน บริเวณพื้นที่ขุดเจาะน้ำบาดาลและระบบกรองน้ำของพื้นที่โครงการปิโตรเคมี (MW3)						
Date Analysis Commenced	Jun 17, 2026						
Condition of Sample	Contained in three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						
Physical Property	Yellow, some odour, solid and turbid						
Analyte	Unit	LOD	LOQ (LOD)	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	<0.01	≤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							
Carbonate Hardness as CaCO ₃ *	mg/L	-	1	17	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2320 B	Rayong
Chloride as Cl ⁻ *	mg/L	0.5	1	9	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500-CI (B)	Rayong
Nitrate as N *	mg/L	0.015	0.05	3.98	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500-NO3 (I)	Rayong

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Analysis / Test Report

Client : WHA Rayong 36 Company Limited
777 Moo 13 WHA TOWER, 23rd - 25th Floor, Debaratna Road (Bangna-Trad) KM.7, Bang
Kong, Bang Phli, Samut Prakan Thailand 10540
P/O : 54260026
Project Name : Monitoring
Project Location : WHA Rayong 36



TESTING
No.0042
Lot ID: 2643218
Date Received : Jun 17, 2026
Date Reported : Jun 23, 2026
Report Number : 3604359-1

Page 3 of 4

Sample Number 2643218-3
Sampled Date Jun 17, 2026 11:42 AM
Sample Description Ground Water
Location งานทดสอบการปนเปื้อนน้ำใต้ดิน บริเวณพื้นที่ขุดเจาะน้ำบาดาลเพื่อตรวจสอบการปนเปื้อนของสารกำจัดศัตรูพืช (MW3)
Date Analysis Commenced Jun 17, 2026
Condition of Sample Contained in three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property Yellow, some odour, solid and turbid

Analyte	Unit	LOD	LOQ (LOD)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Non-Carbonate Hardness as CaCO ₃ *	mg/L	-	1	<1	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2320 B	Rayong
pH at 25 degree C *	-	-	-	6.3	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Rayong
Total Alkalinity as CaCO ₃ *	mg/L	-	1	24	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2320 B	Rayong
Total Dissolved Solids Dried at 180 degree C *	mg/L	-	5	159	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong
Total Hardness as CaCO ₃ *	mg/L	-	1	17	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	41	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Rayong
Turbidity *	NTU	-	0.1	45.0	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2130 B	Rayong

Guideline : Notification of the National Environmental Board, No. 20, B.E.2543

Sampling By : Suravit Narapong

Remarks :
- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOQ (Limit of Reporting)
- Analyte(s) marked * : Inquire not included in scope of Accreditation ISO/IEC 17025.

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NIGHT SOLUTIONS NIGHT PAIN FIGHTER
L004-02 (ENGL) C:\Report_ML\Lot1 (4.00PM)



Analysis / Test Report

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P/O : 54260026
Project Name : Monitoring
Project Location : WHA Rayong 36



TESTING
No.0042
Lot ID: 2643218
Date Received : Jun 17, 2026
Date Reported : Jun 23, 2026
Report Number : 3604359-1

Page 4 of 4

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

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NIGHT SOLUTIONS NIGHT PAIN FIGHTER
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P/O : 54260026
Project Name : Monitoring
Project Location : WHA Rayong 36



TESTING
No.0042
Lot ID: 2643218
Date Received : Jun 17, 2026
Date Reported : Jun 23, 2026
Report Number : 3604360-1

Page 1 of 3

Sample Number 2643218-4
Sampled Date Jun 17, 2026 1:06 PM
Sample Description Ground Water
Location งานทดสอบการปนเปื้อนน้ำใต้ดิน บริเวณพื้นที่ขุดเจาะน้ำบาดาลเพื่อตรวจสอบการปนเปื้อนของสารกำจัดศัตรูพืช (MW4)
Date Analysis Commenced Jun 17, 2026
Condition of Sample Contained in three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property Yellow, some odour, solid and turbid

Analyte	Unit	LOD	LOQ (LOD)	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	0.62	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	<0.005	≤0.01	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	≤0.001	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3112 (B)	Rayong

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NIGHT SOLUTIONS NIGHT PAIN FIGHTER
L004-02 (ENGL) C:\Report_ML\Lot1 (4.00PM)



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P/O : 54260026
Project Name : Monitoring
Project Location : WHA Rayong 36



TESTING
No.0042
Lot ID: 2643218
Date Received : Jun 17, 2026
Date Reported : Jun 23, 2026
Report Number : 3604360-1

Page 2 of 3

Sample Number 2643218-4
Sampled Date Jun 17, 2026 1:06 PM
Sample Description Ground Water
Location งานทดสอบการปนเปื้อนน้ำใต้ดิน บริเวณพื้นที่ขุดเจาะน้ำบาดาลเพื่อตรวจสอบการปนเปื้อนของสารกำจัดศัตรูพืช (MW4)
Date Analysis Commenced Jun 17, 2026
Condition of Sample Contained in three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property Yellow, some odour, solid and turbid

Analyte	Unit	LOD	LOQ (LOD)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
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	0.01	≤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							
Carbonate Hardness as CaCO ₃ *	mg/L	-	1	33	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2320 B	Rayong
Chloride as Cl *	mg/L	0.5	1	6	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500-Cl (B)	Rayong
Nitrate as N *	mg/L	0.015	0.05	4.15	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500-NO ₃ (E)	Rayong
Non-Carbonate Hardness as CaCO ₃ *	mg/L	-	1	9	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2320 B	Rayong

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NIGHT SOLUTIONS NIGHT PAIN FIGHTER
L004-02 (ENGL) C:\Report_ML\Lot1 (4.00PM)



Analysis / Test Report

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P/O : 54260026
Project Name : Monitoring
Project Location : WHA Rayong 36



TESTING
No.0042
Lot ID: 2643218
Date Received : Jun 17, 2026
Date Reported : Jun 23, 2026
Report Number : 3604360-1

Page 1 of 1

Sample Number	2643218-4						
Sampled Date	Jun 17, 2026 1:06 PM						
Sample Description	Ground Water						
Location	ตามแผนการประเมินค่าโลหะหนักและสารพิษตกค้างในดินและน้ำของพื้นที่ 1 ของพื้นที่โรงงานปิโตรเคมี (MW4)						
Date Analysis Commenced	Jun 17, 2026						
Condition of Sample	Contained in three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						
Physical Property	Yellow, some odour, solid and turbid						
Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
pH at 25 degree C		-	-	6.3	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (8)	Rayong
Total Alkalinity as CaCO3 *	mg/L	-	1	33	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2320 B	Rayong
Total Dissolved Solids Dried at 180 degree C *	mg/L	-	5	119	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	42	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
Turbidity *	NTU	-	0.1	21.0	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2130 B	Rayong

Guideline : Notification of the National Environmental Board, No. 20, B.E.2543
Sampling By : Surawit Narapong

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

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Analysis / Test Report

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Kong, Bang Phli, Samut Prakan Thailand 10540
P/O : 54260026
Project Name : Monitoring
Project Location : WHA Rayong 36



TESTING
No.0042
Lot ID: 2643218
Date Received : Jun 17, 2026
Date Reported : Jun 23, 2026
Report Number : 3604360-2

Page 1 of 1

Sample Number	2643218-4						
Sampled Date	Jun 17, 2026 1:06 PM						
Sample Description	Ground Water						
Location	ตามแผนการประเมินค่าโลหะหนักและสารพิษตกค้างในดินและน้ำของพื้นที่ 1 ของพื้นที่โรงงานปิโตรเคมี (MW4)						
Date Analysis Commenced	Jun 19, 2026						
Condition of Sample	Contained in three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						
Physical Property	Yellow, some odour, solid and turbid						
Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Manganese	mg/L	0.001	0.002	0.79	≤0.5	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3120 B, 3030 F	Rayong

Guideline : Notification of the National Environmental Board, No. 20, B.E.2543
Sampling By : Surawit Narapong

Remark :
- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOQ (Limit of Reporting)
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P/O : 54260026
Project Name : Monitoring
Project Location : WHA Rayong 36



TESTING
No.0042
Lot ID: 2643218
Date Received : Jun 17, 2026
Date Reported : Jun 23, 2026
Report Number : 3604361-1

Page 1 of 4

Sample Number	2643218-5						
Sampled Date	Jun 17, 2026 12:45 PM						
Sample Description	Ground Water						
Location	ตามแผนการประเมินค่าโลหะหนักและสารพิษตกค้างในดินและน้ำของพื้นที่โรงงานปิโตรเคมี (MW5)						
Date Analysis Commenced	Jun 17, 2026						
Condition of Sample	Contained in three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						
Physical Property	Yellow, some odour, solid and turbid						
Analyte	Unit	LOD	LOQ (LOQ)	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	2.92	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	<0.005	≤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	0.18	≤0.5	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3120 B, 3030 F	Rayong

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Analysis / Test Report

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P/O : 54260026
Project Name : Monitoring
Project Location : WHA Rayong 36



TESTING
No.0042
Lot ID: 2643218
Date Received : Jun 17, 2026
Date Reported : Jun 23, 2026
Report Number : 3604361-2

Page 2 of 4

Sample Number	2643218-5						
Sampled Date	Jun 17, 2026 12:45 PM						
Sample Description	Ground Water						
Location	ตามแผนการประเมินค่าโลหะหนักและสารพิษตกค้างในดินและน้ำของพื้นที่โรงงานปิโตรเคมี (MW5)						
Date Analysis Commenced	Jun 17, 2026						
Condition of Sample	Contained in three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						
Physical Property	Yellow, some odour, solid and turbid						
Analyte	Unit	LOD	LOQ (LOQ)	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	0.02	≤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	0.01	≤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							
Carbonate Hardness as CaCO3 *	mg/L	-	1	9	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2320 B	Rayong
Chloride as Cl *	mg/L	0.5	1	18	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500-CI (B)	Rayong
Nitrate as N *	mg/L	0.015	0.05	15.1	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500-NO3 (I)	Rayong

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P/O : 54260026
Project Name : Monitoring
Project Location : WHA Rayong 36



TESTING
No.0042
Lot ID: 2643218
Date Received : Jun 17, 2026
Date Reported : Jun 23, 2026
Report Number : 3604361-1

Page 3 of 4

Sample Number	2643218-5						
Sampled Date	Jun 17, 2026 12:45 PM						
Sample Description	Ground Water						
Location	พื้นที่นอกการปนเปื้อนพื้นที่ได้รับค่าจำกัดไม่ก่อให้เกิดผลกระทบต่อสุขภาพ (PMWS)						
Date Analysis Commenced	Jun 17, 2026						
Condition of Sample	Contained in three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						
Physical Property	Yellow, some odour, solid and turbid						
Analyte	Unit	LOD	LOQ (LOD)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Non-Carbonate Hardness as CaCO3 *	mg/L	-	1	33	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2320 B	Rayong
pH at 25 degree C *	-	-	-	5.6	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Rayong
Total Alkalinity as CaCO3 *	mg/L	-	1	9	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2320 B	Rayong
Total Dissolved Solids Dried at 180 degree C *	mg/L	-	5	258	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	42	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	206	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Rayong
Turbidity *	NTU	-	0.1	1.8	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2130 B	Rayong

Guideline : Notification of the National Environmental Board, No. 20, B.E.2543

Sampling By : Suravit Narapong

Remarks :
- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOQ (Limit of Reporting)
- Analyte(s) marked * : Inquire not included in scope of Accreditation ISO/IEC 17025.

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Analysis / Test Report

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P/O : 54260026
Project Name : Monitoring
Project Location : WHA Rayong 36



TESTING
No.0042
Lot ID: 2643218
Date Received : Jun 17, 2026
Date Reported : Jun 23, 2026
Report Number : 3604361-1

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Page 11 of 11

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

Guideline : Notification of the National Environmental Board, No. 20, B.E.2543

Sampling By : Suravit Narapong

Remarks :
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P/O : 54260026
Project Name : Monitoring
Project Location : WHA Rayong 36



TESTING
No.0042
Lot ID: 2643218
Date Received : Jun 17, 2026
Date Reported : Jun 23, 2026
Report Number : 3604361-1

Page 1 of 3

Sample Number	2643218-6						
Sampled Date	Jun 17, 2026 12:23 PM						
Sample Description	Ground Water						
Location	พื้นที่นอกการปนเปื้อนพื้นที่ได้รับค่าจำกัดไม่ก่อให้เกิดผลกระทบต่อสุขภาพ (PMWS)						
Date Analysis Commenced	Jun 17, 2026						
Condition of Sample	Contained in three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						
Physical Property	Yellow, some odour, solid and a lot of turbid						
Analyte	Unit	LOD	LOQ (LOD)	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	<0.01	≤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	16.7	No Standard	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	≤0.001	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	0.02	≤0.02	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3120 B, 3030 F	Rayong

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Project Name : Monitoring
Project Location : WHA Rayong 36



TESTING
No.0042
Lot ID: 2643218
Date Received : Jun 17, 2026
Date Reported : Jun 23, 2026
Report Number : 3604361-1

Page 2 of 3

Sample Number	2643218-6						
Sampled Date	Jun 17, 2026 12:23 PM						
Sample Description	Ground Water						
Location	พื้นที่นอกการปนเปื้อนพื้นที่ได้รับค่าจำกัดไม่ก่อให้เกิดผลกระทบต่อสุขภาพ (PMWS)						
Date Analysis Commenced	Jun 17, 2026						
Condition of Sample	Contained in three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						
Physical Property	Yellow, some odour, solid and a lot of turbid						
Analyte	Unit	LOD	LOQ (LOH)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
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	0.07	≤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							
Carbonate Hardness as CaCO3 *	mg/L	-	1	37	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2320 B	Rayong
Chloride as Cl *	mg/L	0.5	1	14	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500-Cl (B)	Rayong
Nitrate as N *	mg/L	0.015	0.05	4.19	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500-NO3 (C)	Rayong
Non-Carbonate Hardness as CaCO3 *	mg/L	-	1	7	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2320 B	Rayong
pH at 25 degree C	-	-	-	6.0	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Rayong
Total Alkalinity as CaCO3 *	mg/L	-	1	37	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2320 B	Rayong

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Project Name : Monitoring
Project Location : WHA Rayong 36



TESTING
No.0042
Lot ID: 2643218
Date Received : Jun 17, 2026
Date Reported : Jun 23, 2026
Report Number : 3604362-1

Page 1 of 1

Sample Number 2643218-6
Sample Date Jun 17, 2026 12:23 PM
Sample Description Ground Water
Location แปลงเกษตรบริเวณพื้นที่สีเขียวภายในเขตนิคมอุตสาหกรรม (MW6)
Date Analysis Commenced Jun 17, 2026
Condition of Sample Contained in three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property Yellow, some odour, solid and a lot of turbid

Analyte	Unit	LOD	LOQ (LOQ)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Total Dissolved Solids Dried at 180 degree C *	mg/L	-	5	466	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong
Total Hardness as CaCO ₃ *	mg/L	-	1	44	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	1225	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Rayong
Turbidity *	NTU	-	0.1	2000	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2130 B	Rayong

Guideline : Notification of the National Environmental Board, No. 20, B.E.2543
Sampling By : Surawit Narapong

Remark :
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P/O : 54260026
Project Name : Monitoring
Project Location : WHA Rayong 36



TESTING
No.0042
Lot ID: 2643218
Date Received : Jun 17, 2026
Date Reported : Jun 23, 2026
Report Number : 3604362-1

Page 1 of 4

Sample Number 2643218-7
Sample Date Jun 17, 2026 11:58 AM
Sample Description Ground Water
Location แปลงเกษตรบริเวณพื้นที่สีเขียวภายในเขตนิคมอุตสาหกรรม (MW7)
Date Analysis Commenced Jun 17, 2026
Condition of Sample Contained in three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property Yellow, some odour, solid and turbid

Analyte	Unit	LOD	LOQ (LOQ)	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	6.21	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	0.007	≤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	0.41	≤0.5	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3120 B, 3030 F	Rayong

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P/O : 54260026
Project Name : Monitoring
Project Location : WHA Rayong 36



TESTING
No.0042
Lot ID: 2643218
Date Received : Jun 17, 2026
Date Reported : Jun 23, 2026
Report Number : 3604362-2

Page 1 of 1

Sample Number 2643218-6
Sample Date Jun 17, 2026 12:23 PM
Sample Description Ground Water
Location แปลงเกษตรบริเวณพื้นที่สีเขียวภายในเขตนิคมอุตสาหกรรม (MW6)
Date Analysis Commenced Jun 19, 2026
Condition of Sample Contained in three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property Yellow, some odour, solid and a lot of turbid

Analyte	Unit	LOD	LOQ (LOQ)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Lead	mg/L	0.002	0.005	0.04	≤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	2.00	≤0.5	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3120 B, 3030 F	Rayong

Guideline : Notification of the National Environmental Board, No. 20, B.E.2543
Sampling By : Surawit Narapong

Remark :
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P/O : 54260026
Project Name : Monitoring
Project Location : WHA Rayong 36



TESTING
No.0042
Lot ID: 2643218
Date Received : Jun 17, 2026
Date Reported : Jun 23, 2026
Report Number : 3604362-1

Page 2 of 4

Sample Number 2643218-7
Sample Date Jun 17, 2026 11:58 AM
Sample Description Ground Water
Location แปลงเกษตรบริเวณพื้นที่สีเขียวภายในเขตนิคมอุตสาหกรรม (MW7)
Date Analysis Commenced Jun 17, 2026
Condition of Sample Contained in three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property Yellow, some odour, solid and turbid

Analyte	Unit	LOD	LOQ (LOQ)	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	0.006	≤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	0.01	≤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							
Carbonate Hardness as CaCO ₃ *	mg/L	-	1	37	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2320 B	Rayong
Chloride as Cl *	mg/L	0.5	1	10	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500-Cl (B)	Rayong
Nitrate as N *	mg/L	0.015	0.05	4.15	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500-NO3 (I)	Rayong

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P/O : 54260026
Project Name : Monitoring
Project Location: WHA Rayong 36



TESTING
No.0042
Lot ID: 2643218
Date Received : Jun 17, 2026
Date Reported : Jun 23, 2026
Report Number : 36H363-1

Page 3 of 4

Sample Number	2643218-7						
Sampled Date	Jun 17, 2026 11:58 AM						
Sample Description	Ground Water						
Location	แหล่งน้ำบาดาลบริเวณพื้นที่สีเขียวภายในเขตโรงงานผลิตยาสูบของสำนักงานสรรพสามิต (MW7)						
Date Analysis Commenced	Jun 17, 2026						
Condition of Sample	Contained in three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						
Physical Property	Yellow, some odour, solid and turbid						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Non-Carbonate Hardness as CaCO ₃ *	mg/L	-	1	9	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2320 B	Rayong
pH at 25 degree C. *		-	-	6.3	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Rayong
Total Alkalinity as CaCO ₃ *	mg/L	-	1	37	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2320 B	Rayong
Total Dissolved Solids Dried at 180 degree C *	mg/L	-	5	236	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong
Total Hardness as CaCO ₃ *	mg/L	-	1	47	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	292	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Rayong
Turbidity *	NTU	-	0.1	220	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2130 B	Rayong

Guideline : Notification of the National Environmental Board, No. 20, B.E.2543

Sampling By : Suravit Narapong

Remarks :
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P/O : 54260026
Project Name : Monitoring
Project Location: WHA Rayong 36



TESTING
No.0042
Lot ID: 2643218
Date Received : Jun 17, 2026
Date Reported : Jun 23, 2026
Report Number : 36H363-1

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สถานีวิจัยประมงศรีราชา
101/12 หมู่ 9 ต. บางพระ อ. ศรีราชา จ.ชลบุรี 20110
โทร./โทรสาร. (038) 311379

Client : WHA Rayong 36 Company Limited
Address : 777 Moo 13 WHA TOWER, 23rd - 25th Floor, Debaratna Road (Bangna-Trad) KM.7, Bang Kaeo, Bang Phli, Samut Prakan, Thailand, 10540
Project Name : Monitoring
Project Location : WHA Rayong 36

รายงานผลการวิเคราะห์เบื้องต้น
ชนิดสัตว์น้ำ (Aquatic animal) (เก็บตัวอย่างวันที่ 9 มีนาคม 2569)

ชนิดสัตว์น้ำ	ปริมาณสัตว์น้ำ (ตัว)						จำนวนปลา	น้ำหนักรวม
	2612057-1	2612057-2	2612057-3	2612057-4	2612057-5	2612057-6	(กรัม.)	(กรัม)
Phylum Chordata								
Class Actinopterygii								
Order Cichliformes								
Family Cichlidae								
<i>Oreochromis niloticus</i> (ปลาไน)	5	6	2	6	3	1	4.10-10.50	152.30

5. สถานี 2612057-5 : สถานีประมงศรีราชา บริเวณพื้นที่ทำเกษตรบริเวณทุ่งของโครงการ 500 เมตร (SW5)
6. สถานี 2612057-6 : สถานีประมงศรีราชา บริเวณพื้นที่ทำเกษตรบริเวณทุ่งของโครงการ 500 เมตร (SW6)

Condition of Sample : fishing gear

(นาย) วิชาญ (นามสกุล) วิชาญ
ผู้ตรวจ

(นาย) ช่าง (นามสกุล) ช่าง
ผู้ตรวจ



สถานีวิจัยประมงศรีราชา
101/12 หมู่ 9 ต. บางพระ
อ. ศรีราชา จ.ชลบุรี 20110
โทร./โทรสาร. (038) 311379

Client : WHA Rayong 36 Company Limited
Address : 777 Moo 13 WHA TOWER, 23rd - 25th Floor, Debaratna Road (Bangna-Trad) KM.7, Bang Kaeo, Bang Phli, Samut Prakan, Thailand, 10540
Project Name : Monitoring
Project Location : WHA Rayong 36

รายงานผลการวิเคราะห์เบื้องต้น
ชนิดสัตว์น้ำ (Aquatic animal) (เก็บตัวอย่างวันที่ 9 มีนาคม 2569)

ชนิดของสัตว์น้ำ	ปริมาณสัตว์น้ำ (หน่วยต่อลูกบาศก์เมตร)					
	2612061-1	2612061-2	2612061-3	2612061-4	2612061-5	2612061-6
Division Cyanophyta						
Class Cyanophyceae						
Order Chroococcales						
Family Chroococcaceae						
1. <i>Merismopedia convoluta</i>	31,000	-	-	630,000	-	-
2. <i>Microcystis aeruginosa</i>	-	-	-	720,000	-	-
Order Nostocales						
Family Oscillatoriaceae						
3. <i>Lyngbya</i> sp.	-	-	-	27,000	-	-
4. <i>Oscillatoria angusta</i>	-	9,000	-	27,000	-	9,000
5. <i>Oscillatoria brevis</i>	-	9,000	-	18,000	-	-
6. <i>Oscillatoria limnetica</i>	250,000	244,000	25,000	36,000	18,000	9,000
7. <i>Oscillatoria princeps</i>	-	-	-	162,000	18,000	-

- Sample Location : 1. สถานี 2612057-1 : สถานีประมงศรีราชา บริเวณพื้นที่ทำเกษตรบริเวณทุ่งของโครงการ 500 เมตร (SW1)
2. สถานี 2612057-2 : สถานีประมงศรีราชา บริเวณพื้นที่ทำเกษตรบริเวณทุ่งของโครงการ 500 เมตร (SW2)
3. สถานี 2612057-3 : สถานีประมงศรีราชา บริเวณพื้นที่ทำเกษตรบริเวณทุ่งของโครงการ 500 เมตร (SW3)
4. สถานี 2612057-4 : สถานีประมงศรีราชา บริเวณพื้นที่ทำเกษตรบริเวณทุ่งของโครงการ 500 เมตร (SW4)

ตาราง ผลการวิเคราะห์แหล่งที่ตอนพืช (เก็บตัวอย่างวันที่ 9 มีนาคม 2569)

ชนิดแหล่งที่ตอนพืช	ปริมาณแหล่งที่ตอนพืช (หน่วยต่อลูกบาศก์เมตร)					
	2612061-1	2612061-2	2612061-3	2612061-4	2612061-5	2612061-6
8. <i>Oscillatoria</i> sp.	39,000	26,000	-	36,000	-	-
9. <i>Oscillatoria splendida</i>	-	17,000	-	-	-	-
10. <i>Oscillatoria tenuis</i>	702,000	52,000	12,000	54,000	9,000	26,000
Family Nostocaceae						
11. <i>Anabaena azollae</i>	-	26,000	-	-	-	-
12. <i>Cylindrospermum</i> sp.	8,000	-	-	-	-	-
13. <i>Raphidiopsis</i> sp.	-	-	-	-	-	18,000
Family Scytonemataceae						
14. <i>Scytonema</i> sp.	-	-	-	-	-	9,000
Family Rivulariaceae						
15. <i>Calothrix</i> sp.	47,000	26,000	-	-	-	-
Division Chlorophyta						
Class Chlorophyceae						
Order Volvocales						
Family Volvocaceae						
16. <i>Eudorina elegans</i>	70,000	9,000	-	-	-	-
17. <i>Pandorina morum</i>	6,864,000	1,253,000	25,000	9,000	-	9,000
Order Tetrasporales						
Family Palmellaceae						
18. <i>Sphaerocystis schroeteri</i>	-	-	25,000	-	478,000	-
Order Chlorococcales						
Family Hydrodictyaceae						
19. <i>Pediastrum boryanum</i>	8,000	17,000	-	-	-	-
20. <i>Pediastrum duplex</i>	8,000	9,000	-	99,000	64,000	18,000
21. <i>Pediastrum simplex</i>	-	35,000	-	-	18,000	-
Family Coelastraceae						
22. <i>Coelastrum microporum</i>	-	-	-	9,000	1,702,000	18,000

ตาราง ผลการวิเคราะห์แหล่งที่ตอนพืช (เก็บตัวอย่างวันที่ 9 มีนาคม 2569)

ชนิดแหล่งที่ตอนพืช	ปริมาณแหล่งที่ตอนพืช (หน่วยต่อลูกบาศก์เมตร)					
	2612061-1	2612061-2	2612061-3	2612061-4	2612061-5	2612061-6
Order Zygomatales						
Family Zygnemataceae						
46. <i>Spirogyra</i> sp.	16,000	174,000	-	18,000	9,000	44,000
Family Desmidiaceae						
47. <i>Closterium acerosum</i>	8,000	17,000	-	90,000	9,000	-
48. <i>Closterium ehrenbergii</i>	8,000	17,000	-	9,000	28,000	-
49. <i>Closterium gracile</i>	-	-	25,000	9,000	5,253,000	211,000
50. <i>Closterium kuetzingii</i>	-	-	-	-	9,000	-
51. <i>Closterium porrectum</i>	-	9,000	-	-	-	-
52. <i>Cosmarium granatum</i>	-	9,000	-	-	-	-
53. <i>Cosmarium</i> sp.	-	17,000	-	-	-	-
54. <i>Desmidiium swartzii</i>	140,000	157,000	-	117,000	55,000	44,000
55. <i>Penium margaritaceum</i>	-	9,000	-	-	-	-
Class Euglenophyceae						
Order Euglenales						
Family Euglenaceae						
56. <i>Euglena acus</i>	101,000	26,000	161,000	54,000	9,000	9,000
57. <i>Euglena fusca</i>	31,000	-	-	9,000	-	-
58. <i>Euglena oxyuris</i>	78,000	9,000	-	36,000	28,000	9,000
59. <i>Euglena</i> sp.	47,000	-	37,000	-	-	-
60. <i>Euglena splendens</i>	-	-	37,000	-	-	-
61. <i>Lepocinctis ovum</i>	281,000	17,000	37,000	18,000	9,000	44,000
62. <i>Phacus angulatus</i>	8,000	-	12,000	-	-	-
63. <i>Phacus hamatus</i>	-	26,000	12,000	-	-	9,000
64. <i>Phacus longicauda</i>	31,000	-	25,000	63,000	-	9,000
65. <i>Phacus myersi</i>	70,000	17,000	37,000	27,000	-	18,000
66. <i>Phacus platalea</i>	8,000	9,000	-	9,000	-	9,000

ตาราง ผลการวิเคราะห์แหล่งที่ตอนพืช (เก็บตัวอย่างวันที่ 9 มีนาคม 2569)

ชนิดแหล่งที่ตอนพืช	ปริมาณแหล่งที่ตอนพืช (หน่วยต่อลูกบาศก์เมตร)					
	2612061-1	2612061-2	2612061-3	2612061-4	2612061-5	2612061-6
23. <i>Coelastrum sphaericum</i>	-	-	-	-	28,000	-
Family Oocystaceae						
24. <i>Ankistrodesmus falcatus</i>	8,000	-	12,000	9,000	-	9,000
25. <i>Chlorella vulgaris</i>	-	-	-	-	828,000	9,000
26. <i>Dictyosphaerium pulchellum</i>	8,000	-	62,000	-	221,000	-
27. <i>Oocystis parva</i>	8,000	-	-	-	-	-
28. <i>Selenastrum gracile</i>	-	-	-	-	-	9,000
29. <i>Tetraedron gracile</i>	8,000	-	-	-	-	-
30. <i>Tetraedron trigonum</i>	-	-	12,000	-	-	-
Family Scenedesmaceae						
31. <i>Actinastrum gracillimum</i>	-	-	-	-	837,000	9,000
32. <i>Actinastrum hantzschii</i>	-	-	-	-	11,040,000	18,000
33. <i>Crucigenia apiculata</i>	-	26,000	-	-	-	-
34. <i>Micractinium pusillum</i>	-	-	-	-	97,152,000	9,000
35. <i>Micractinium quadrisetum</i>	-	-	-	-	745,000	-
36. <i>Micrasterias pinnatifida</i>	23,000	-	-	-	-	-
37. <i>Scenedesmus armatus</i>	8,000	-	-	-	2,024,000	18,000
38. <i>Scenedesmus dimorphus</i>	-	-	-	18,000	-	-
39. <i>Scenedesmus obliquus</i>	-	-	-	-	580,000	-
40. <i>Scenedesmus opoliensis</i>	1,716,000	905,000	-	-	15,040,000	352,000
41. <i>Scenedesmus quadricauda</i>	1,092,000	800,000	-	9,000	9,752,000	986,000
42. <i>Scenedesmus</i> sp.	8,000	9,000	-	-	-	-
Order Ulotrichales						
Family Ulotrichaceae						
43. <i>Geminella</i> sp.	-	-	-	-	156,000	-
44. <i>Ulothrix variabilis</i>	-	174,000	-	-	175,000	9,000
45. <i>Ulothrix zonata</i>	8,000	-	-	-	-	26,000

ตาราง ผลการวิเคราะห์แหล่งที่ตอนพืช (เก็บตัวอย่างวันที่ 9 มีนาคม 2569)

ชนิดแหล่งที่ตอนพืช	ปริมาณแหล่งที่ตอนพืช (หน่วยต่อลูกบาศก์เมตร)					
	2612061-1	2612061-2	2612061-3	2612061-4	2612061-5	2612061-6
67. <i>Phacus ranula</i>	16,000	-	37,000	162,000	-	-
68. <i>Phacus</i> sp.	39,000	35,000	247,000	27,000	28,000	18,000
69. <i>Phacus tortus</i>	16,000	9,000	37,000	36,000	18,000	-
70. <i>Strombomonas gibberosa</i>	16,000	-	-	-	-	-
71. <i>Strombomonas giardiana</i>	-	-	-	9,000	-	-
72. <i>Trachelomonas crebea</i>	-	-	-	-	-	9,000
73. <i>Trachelomonas daugerdiana</i>	8,000	-	49,000	-	-	44,000
74. <i>Trachelomonas hispida</i>	156,000	9,000	37,000	9,000	-	-
75. <i>Trachelomonas mirabilis</i>	148,000	26,000	259,000	-	-	-
76. <i>Trachelomonas rugulosa</i>	-	9,000	395,000	-	-	-
77. <i>Trachelomonas scabra</i>	16,000	-	-	-	-	-
78. <i>Trachelomonas</i> sp.	16,000	17,000	247,000	1,980,000	-	18,000
79. <i>Trachelomonas superba</i>	16,000	17,000	-	-	-	-
Division Chromophyta						
Class Bacillariophyceae						
Order Biddulphiales						
Suborder Coscinodiscineae						
Family Thalassiosiraceae						
80. <i>Cyclotella stelligera</i>	16,000	165,000	-	-	18,000	-
Family Aulacoseiraceae						
81. <i>Aulacoseira granulata</i>	133,000	9,000	-	-	1,766,000	44,000
Order Bacillariales						
Suborder Fragilariineae						
Family Fragilariaceae						
82. <i>Synedra ulna</i>	437,000	200,000	-	144,000	28,000	53,000

ชนิดแพลงก์ตอนพืช	ปริมาณแพลงก์ตอนพืช (หน่วยต่อลูกบาศก์เมตร)					
	2612061-1	2612061-2	2612061-3	2612061-4	2612061-5	2612061-6
Suborder Bacillariineae						
Family Eunotiaceae						
83. <i>Eunotia pectinalis</i>	23,000	87,000	-	18,000	55,000	-
Family Cymbellaceae						
84. <i>Cymbella tumida</i>	-	-	-	36,000	-	9,000
85. <i>Gomphonema constrictum</i>	-	35,000	-	-	-	-
86. <i>Gomphonema parvulum</i>	8,000	17,000	12,000	45,000	-	-
Family Navicellaceae						
87. <i>Amphora</i> sp.	-	-	-	9,000	-	-
88. <i>Craticula cuspidata</i>	-	-	-	18,000	-	-
89. <i>Gyrosigma acuminatum</i>	156,000	183,000	-	45,000	184,000	106,000
90. <i>Gyrosigma attenuatum</i>	36,000	52,000	-	45,000	101,000	167,000
91. <i>Gyrosigma</i> sp.	8,000	9,000	-	-	-	-
92. <i>Navicula cuspidata</i>	-	26,000	-	288,000	-	-
93. <i>Navicula</i> sp.	23,000	418,000	-	1,620,000	-	44,000
94. <i>Pinnularia gibba</i>	-	-	-	9,000	-	-
95. <i>Pinnularia</i> sp.	8,000	44,000	-	9,000	-	-
96. <i>Sauroneis anceps</i>	-	9,000	-	9,000	-	-
Family Bacillariaceae						
97. <i>Bacillaria paxillifera</i>	-	35,000	-	126,000	18,000	176,000
98. <i>Nitzschia acicularis</i>	-	-	-	2,250,000	-	-
99. <i>Nitzschia bilobata</i>	-	-	-	-	9,000	-
100. <i>Nitzschia linearis</i>	31,000	209,000	-	45,000	9,000	26,000
101. <i>Nitzschia lorenziana</i>	-	9,000	-	-	-	-
102. <i>Nitzschia palea</i>	-	44,000	-	9,000	-	-
103. <i>Nitzschia reversa</i>	-	9,000	-	-	-	-
104. <i>Nitzschia sigmaidea</i>	31,000	78,000	-	9,000	-	9,000

- Sample Location :** 1. สถานี 2612061-1 : คลองจากเขื่อนสิริกิติ์ บริเวณต้นน้ำห่างจากขอบเขตพื้นที่โครงการด้านทิศตะวันตกเฉียงใต้ 150 เมตร (SW1)
2. สถานี 2612061-2 : คลองจากเขื่อนสิริกิติ์ บริเวณท้ายน้ำห่างจากขอบเขตพื้นที่โครงการด้านทิศเหนือ 150 เมตร (SW2)
3. สถานี 2612061-3 : คลองพูล บริเวณต้นน้ำห่างจากขอบเขตพื้นที่โครงการด้านทิศตะวันออกเฉียงใต้ 100 เมตร (SW3)
4. สถานี 2612061-4 : คลองปลวกแก้ว บริเวณต้นน้ำห่างจากจุดระบายน้ำทิ้งของโครงการ 500 เมตร (SW4)
5. สถานี 2612061-5 : คลองปลวกแก้ว บริเวณท้ายน้ำห่างจากจุดระบายน้ำทิ้งของโครงการ 500 เมตร (SW5)
6. สถานี 2612061-6 : คลองปลวกแก้ว บริเวณท้ายจุดระบายน้ำทิ้ง 500 เมตร (SW6)

Condition of Sample : contained in one plastic bottle, sample containers comply to pretreatment- preservation standards (APHA, USEPA)


 (นางสาวกนกวรรณ ขาวค้อน)
 ผู้วิเคราะห์


 (นายอลงกต อินทราชา)
 หัวหน้าสถานีวิจัยประมงห้วยรา

ชนิดแพลงก์ตอนสัตว์	ปริมาณแพลงก์ตอนสัตว์ (หน่วยต่อลูกบาศก์เมตร)					
	2612061-1	2612061-2	2612061-3	2612061-4	2612061-5	2612061-6
105. <i>Nitzschia</i> sp.	-	-	-	1,458,000	-	-
Family Rhopalodiaceae						
106. <i>Epithemia argus</i>	-	-	-	27,000	-	-
Family Surirellaceae						
107. <i>Surirella biseriata</i>	-	-	-	9,000	-	-
108. <i>Surirella elegans</i>	16,000	35,000	-	18,000	46,000	70,000
109. <i>Surirella linearis</i>	39,000	-	-	18,000	46,000	167,000
110. <i>Surirella robusta</i>	86,000	348,000	-	36,000	18,000	26,000
111. <i>Surirella tenera</i>	23,000	26,000	-	36,000	28,000	-
Class Cryophyceae						
Order Synurales						
Family Mallomonadaceae						
112. <i>Mallomonas acaroides</i>	-	-	12,000	-	-	9,000
113. <i>Mallomonas litorea</i>	-	-	543,000	-	-	-
114. <i>Mallomonas</i> sp.	-	-	37,000	-	-	-
Class Dinophyceae						
Order Peridinales						
Family Peridiniaceae						
115. <i>Peridinium guttense</i>	-	-	593,000	63,000	-	18,000
116. <i>Peridinium</i> sp.	-	17,000	-	9,000	-	44,000
ชนิดแพลงก์ตอนพืช	59	62	29	60	44	48
ปริมาณแพลงก์ตอนพืช	13,262,000	6,345,000	3,061,000	10,953,000	149,266,000	3,033,000
ดัชนีความหลากหลายของแพลงก์ตอนพืช	2.0157	2.9790	2.5796	2.5847	1.3647	2.7551
ดัชนีความสม่ำเสมอของแพลงก์ตอนพืช	0.4943	0.7218	0.7661	0.6313	0.3606	0.7117



สถานีวิจัยประมงห้วยรา
 101/12 หมู่ 9 ต. บางพระ
 อ. ศรีราชา จ. ชลบุรี 20110
 โทร./โทรสาร. (038) 311379

Client : WHA Rayong 36 Company Limited
Address : 777 Moo 13 WHA TOWER, 23rd - 25th Floor, Debaratna Road (Bangna-Trad) KM.7, Bang Kaeo, Bang Phli , Samut Prakan, Thailand, 10540
Project Name : Monitoring
Project Location : WHA Rayong 36

รายงานผลการวิเคราะห์แพลงก์ตอนสัตว์

ชนิดแพลงก์ตอนสัตว์	ปริมาณแพลงก์ตอนสัตว์ (หน่วยต่อลูกบาศก์เมตร)					
	2612061-1	2612061-2	2612061-3	2612061-4	2612061-5	2612061-6
Phylum Protozoa						
Subphylum Plasmodroma						
Class Sarcodina						
Subclass Rhizopoda						
Order Amoebida						
1. <i>Amoeba</i> sp.	55,000	-	25,000	-	-	-
Order Testacida						
Family Arcellidae						
2. <i>Arcella conica</i>	-	-	-	63,000	9,000	9,000
3. <i>Arcella</i> sp.	-	-	-	90,000	18,000	26,000
4. <i>Arcella vulgaris</i>	31,000	-	37,000	-	18,000	18,000
Family Diffugiidae						
5. <i>Centropyxis aculeata</i>	-	-	-	-	28,000	44,000

ตาราง ผลการวิเคราะห์เพลงที่คอนสัต์ (เก็บตัวอย่างวันที่ 9 มีนาคม 2569)

ชนิดเพลงที่คอนสัต์	ปริมาณเพลงที่คอนสัต์ (หน่วยต่อลูกบาศก์เมตร)					
	2612061-1	2612061-2	2612061-3	2612061-4	2612061-5	2612061-6
6. <i>Diffugia acuminata</i>	16,000	26,000	-	-	18,000	-
7. <i>Diffugia lobostoma</i>	-	-	-	9,000	-	9,000
Family Euglyphidae						
8. <i>Euglypha acanthophora</i>	8,000	9,000	-	-	212,000	-
9. <i>Euglypha rotunda</i>	-	-	12,000	-	74,000	44,000
Subphylum Ciliophora						
Class Ciliata						
Subclass Holotricha						
Order Gymnostomatida						
10. <i>Coleps</i> sp.	8,000	-	49,000	-	9,000	-
11. <i>Didinium</i> sp.	8,000	-	25,000	-	-	-
Order Hymenostomatida						
12. <i>Paramecium</i> sp.	16,000	-	124,000	9,000	-	-
Subclass Spirotricha						
Order Tintinnida						
Family Codonellidae						
13. <i>Tintinnopsis</i> sp.	-	9,000	62,000	-	-	-
Subclass Peritricha						
Order Peritrichida						
14. <i>Carchesium</i> sp.	-	-	-	-	18,000	-
15. <i>Pxicola</i> sp.	8,000	-	-	-	18,000	-
16. <i>Vorticella</i> sp.	47,000	-	25,000	117,000	37,000	-
Phylum Rotifera						
Class Monogononta						
Order Ploina						
Family Brachionidae						
17. <i>Anuraeopsis fissa</i>	8,000	70,000	37,000	-	497,000	-

ตาราง ผลการวิเคราะห์เพลงที่คอนสัต์ (เก็บตัวอย่างวันที่ 9 มีนาคม 2569)

ชนิดเพลงที่คอนสัต์	ปริมาณเพลงที่คอนสัต์ (หน่วยต่อลูกบาศก์เมตร)					
	2612061-1	2612061-2	2612061-3	2612061-4	2612061-5	2612061-6
Order Flosculariacea						
Family Testudinellidae						
39. <i>Testudinella patina</i>	8,000	-	-	9,000	-	-
Family Floscularidae						
40. <i>Pygura</i> sp.	8,000	-	-	-	-	-
Family Hexarthridae						
41. <i>Hexarthra mira</i>	-	9,000	-	-	-	-
Class Collothecacea						
Family Collothecidae						
42. <i>Collothrca</i> sp.	-	-	12,000	-	-	-
Class Digononta						
Family Philodinidae						
43. <i>Philodina</i> sp.	16,000	-	-	9,000	18,000	-
44. <i>Rotaria rotatoria</i>	31,000	-	-	9,000	-	-
Phylum Arthropoda						
Class Crustacea						
Subclass Branchiopoda						
Order Diplostraca						
Suborder Cladocera						
Family Bosminidae						
45. <i>Bosminopsis negrensis</i>	-	-	-	9,000	-	-
Family Daphnidae						
46. <i>Ceriodaphnia reticulata</i>	-	-	-	-	506,000	-
Family Chydoridae						
47. <i>Alona</i> sp.	16,000	-	-	-	18,000	-

ตาราง ผลการวิเคราะห์เพลงที่คอนสัต์ (เก็บตัวอย่างวันที่ 9 มีนาคม 2569)

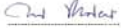
ชนิดเพลงที่คอนสัต์	ปริมาณเพลงที่คอนสัต์ (หน่วยต่อลูกบาศก์เมตร)					
	2612061-1	2612061-2	2612061-3	2612061-4	2612061-5	2612061-6
18. <i>Brachionus budapestinensis</i>	-	-	-	-	74,000	-
19. <i>Brachionus calyciflorus</i>	-	-	-	-	156,000	-
20. <i>Brachionus</i> sp.	8,000	9,000	-	9,000	-	-
21. <i>Brachionus urceolaris</i>	-	-	-	-	129,000	-
22. <i>Colurella obtusa</i>	-	9,000	-	18,000	-	-
23. <i>Dicranophorus</i> sp.	-	9,000	-	-	-	-
24. <i>Keratella cochlearis</i>	-	9,000	-	-	-	-
25. <i>Keratella valga</i>	-	-	-	-	28,000	-
Family Lecanidae						
26. <i>Lecane bulla</i>	-	9,000	-	-	9,000	-
27. <i>Lecane harringi</i>	8,000	-	-	-	9,000	-
28. <i>Lecane pyriformis</i>	-	9,000	-	18,000	-	-
29. <i>Lecane</i> sp.	-	9,000	-	-	-	-
Family Notommatidae						
30. <i>Cephalodella forficula</i>	8,000	-	-	-	-	-
31. <i>Cephalodella gibba</i>	-	-	-	18,000	28,000	9,000
32. <i>Monommata</i> sp.	-	-	-	-	9,000	-
Family Tricocercidae						
33. <i>Trichocerca pusilla</i>	8,000	9,000	12,000	-	239,000	-
Family Gastropodidae						
34. <i>Ascomorpha</i> sp.	-	9,000	25,000	-	-	-
Family Asplanchnidae						
35. <i>Asplanchna priodonta</i>	16,000	-	-	9,000	28,000	-
Family Synchaetidae						
36. <i>Polyarthra dolichoptera</i>	8,000	-	12,000	-	-	-
37. <i>Polyarthra vulgaris</i>	-	-	86,000	-	-	-
38. <i>Synchaeta</i> sp.	-	26,000	-	-	-	-

ตาราง ผลการวิเคราะห์เพลงที่คอนสัต์ (เก็บตัวอย่างวันที่ 9 มีนาคม 2569)

ชนิดเพลงที่คอนสัต์	ปริมาณเพลงที่คอนสัต์ (หน่วยต่อลูกบาศก์เมตร)					
	2612061-1	2612061-2	2612061-3	2612061-4	2612061-5	2612061-6
Subclass Ostracoda						
Order Podocopa						
Family Cypridae						
48. <i>Cypridopsis</i> sp.	-	-	-	-	9,000	-
Subclass Copepoda						
49. Copepod nauplius	31,000	35,000	12,000	18,000	469,000	18,000
Order Calanoida						
50. Calanoid copepod	-	-	-	-	120,000	-
Order Harpacticoida						
51. Harpacticoid copepod	-	-	25,000	-	18,000	-
ชนิดเพลงที่คอนสัต์	22	16	16	15	29	8
ปริมาณเพลงที่คอนสัต์	371,000	265,000	580,000	414,000	2,823,000	177,000
ดัชนีความหลากหลายเพลงที่คอนสัต์	2.8376	2.4531	2.4906	2.1865	2.5494	1.8931
ดัชนีความสม่ำเสมอเพลงที่คอนสัต์	0.9180	0.8848	0.8983	0.8074	0.7571	0.9104

- Sample Location :
- สถานี 2612061-1 : คลองซากเจ้าเตียว บริเวณต้นน้ำห่างจากขอบเขตพื้นที่โครงการด้านทิศตะวันตกเฉียงใต้ 150 เมตร (SW1)
 - สถานี 2612061-2 : คลองซากเจ้าเตียว บริเวณท้ายน้ำห่างจากขอบเขตพื้นที่โครงการด้านทิศเหนือ 150 เมตร (SW2)
 - สถานี 2612061-3 : คลองพูล บริเวณต้นน้ำห่างจากขอบเขตพื้นที่โครงการด้านทิศตะวันออกเฉียงใต้ 100 เมตร (SW3)
 - สถานี 2612061-4 : คลองปลวกแก้ว บริเวณต้นน้ำห่างจากจุดระบายน้ำทิ้งของโครงการ 500 เมตร (SW4)
 - สถานี 2612061-5 : คลองปลวกแก้ว บริเวณท้ายน้ำห่างจากจุดระบายน้ำทิ้งของโครงการ 500เมตร (SW5)
 - สถานี 2612061-6 : คลองปลวกแก้ว บริเวณท้ายจุดระบายน้ำทิ้ง 500 เมตร (SW6)

Condition of Sample : contained in one plastic bottle, sample containers comply to pretreatment -preservation standards (APHA, USEPA)


(นางสาวกนกวรรณ ขาวอ่อน)
ผู้วิเคราะห์


(นายอองกมล อินทวาทิต)
หัวหน้าสถานีวิจัยประมงศรีราชา



สถานีวิจัยประมงศรีราชา
101/12 หมู่ 9 ต. บางพระ
อ. ศรีราชา จ. ชลบุรี 20110
โทร./โทรสาร. (038) 311379

Client : WHA Rayong 36 Company Limited

Address : 777 Moo 13 WHA TOWER, 23rd - 25th Floor, Debaratna Road (Bangua-Trad) KM.7, Bang Kaeo,

Bang Phli, Samut Prakan, Thailand, 10540

Project Name : Monitoring

Project Location : WHA Rayong 36

รายงานผลการวิเคราะห์สัตว์น้ำดิน

ตาราง ผลการวิเคราะห์สัตว์น้ำดิน (เก็บตัวอย่างวันที่ 9 มีนาคม 2569)

สกุลสัตว์น้ำดิน	ปริมาณสัตว์น้ำดิน (หัวต่อตารางเมตร)					
	2612071-1	2612071-2	2612071-3	2612071-4	2612071-5	2612071-6
Phylum Annelida						
Class Clitellata						
Order Lumbriculida						
Family Lumbriculidae						
<i>Lumbriculus</i> sp. (ไส้เดือนน้ำ)	45	-	741	75	-	-
Order Tubificida						
Family Naididae						
<i>Branchiura</i> sp. (ไส้เดือนน้ำ)	-	-	45	386	104	-
Phylum Arthropoda						
Class Insecta						
Order Diptera						
Family Ceratopogonidae						
<i>Culicoides</i> sp. (วันเพี้ยน)	15	208	-	-	149	30

ตาราง ผลการวิเคราะห์สัตว์น้ำดิน (เก็บตัวอย่างวันที่ 9 มีนาคม 2569) (ต่อ)

สกุลสัตว์น้ำดิน	ปริมาณสัตว์น้ำดิน (หัวต่อตารางเมตร)					
	2612071-1	2612071-2	2612071-3	2612071-4	2612071-5	2612071-6
Family Chironomidae						
<i>Chironomus</i> sp. (หนอนแดง)	30	75	267	75	75	60
Order Ephemeroptera						
Family Ephemeridae						
<i>Ephemera</i> sp. (ตัวอ่อนแมลงขาแปะขาว)	-	75	-	-	15	-
Phylum Mollusca						
Class Gastropoda						
Order Architaenioglossa						
Family Bithyniidae						
<i>Bithynia</i> sp. (หอยโขง)	-	-	-	15	-	-
Family Thiaridae						
<i>Melanoides</i> sp. (หอยเชอรี่)	15	-	-	30	15	30
<i>Tarebia</i> sp. (หอยเชอรี่)	-	-	-	-	-	400
Order Basommatophora						
Family Physidae						
<i>Physa</i> sp. (หอยทาก)	30	-	-	-	-	-
Order Neogastropoda						
Family Buccinidae						
<i>Clea</i> sp. (หอยเชอรี่)	-	-	15	-	-	-
Class Bivalvia						
Order Venerida						
Family Cyrenidae						
<i>Corbicula</i> sp. (หอยทาก)	-	-	-	-	15	-
สกุลสัตว์น้ำดิน	5	3	4	5	6	4
ปริมาณสัตว์น้ำดิน	135	358	1,068	581	373	520
ค่าดัชนีความหลากหลายสัตว์น้ำดิน	1.5230	0.9704	0.7935	1.0477	1.4329	0.7801

- Sample Location : 1. สถานี 2612071-1 : คลองจากเขาดิน บริเวณต้นน้ำห่างจากขอบเขตพื้นที่โครงการด้านทิศตะวันตกเฉียงใต้ 150 เมตร (SW1)
2. สถานี 2612071-2 : คลองจากเขาดิน บริเวณท้ายน้ำห่างจากขอบเขตพื้นที่โครงการด้านทิศเหนือ 150 เมตร (SW2)
3. สถานี 2612071-3 : คลองจากเขาดิน บริเวณต้นน้ำห่างจากขอบเขตพื้นที่โครงการด้านทิศตะวันตกเฉียงใต้ 100 เมตร (SW3)
4. สถานี 2612071-4 : คลองจากเขาดิน บริเวณต้นน้ำห่างจากจุดระบายน้ำทิ้งของโครงการ 500 เมตร (SW4)
5. สถานี 2612071-5 : คลองจากเขาดิน บริเวณท้ายน้ำห่างจากจุดระบายน้ำทิ้งของโครงการ 500 เมตร (SW5)
6. สถานี 2612071-6 : คลองจากเขาดิน บริเวณท้ายน้ำห่างจากจุดระบายน้ำทิ้งของโครงการ 500 เมตร (SW6)

Condition of Sample : contained in one plastic zip bag


(นายอองกมล อินทวาทิต)
ผู้วิเคราะห์


(นางสาวกนกวรรณ ขาวอ่อน)
หัวหน้าสถานีวิจัยประมงศรีราชา

คุณภาพดิน



Analysis / Test Report

Client : WHA Rayong 36 Company Limited
777 Moo 13 WHA TOWER, 23rd - 25th Floor, Debaratna Road (Bangna-Trad) KM.7, Bang
Kaeo, Bang Phli, Samut Prakan Thailand 10540
P/O : 54250025
Project Name : Monitoring
Project Location : WHA Rayong 36

Lot ID: 2599230
Date Received : Nov 21, 2025
Date Reported : Dec 03, 2025
Report Number : 3435994-1

Page 1 of 21

Sample Number 2599230-1
Sampled Date Nov 21, 2025 11:53 AM
Sample Description Soil (Dry basis)
Location นางสาวกมลฤดีคุณาภาทำได้นั้น บริเวณพื้นที่สีเขียวด้านทิศตะวันตกเฉียงใต้ของพื้นที่โครงการถลุงเงิน (S1)
Date Analysis Commenced Nov 22, 2025
Condition of Sample Packed in one plastic bag and one amber glass bottle, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Aluminium	mg/kg	-	1.00	13596	No Standard	United States Environmental Protection Agency, EPA Method 3050 B and 6010 D	Bangkok
Arsenic	mg/kg	-	0.50	10.0	≤25	United States Environmental Protection Agency, EPA Method 3050 B and 6010 D	Bangkok
Barium	mg/kg	-	1.00	63.4	No Standard	United States Environmental Protection Agency, EPA Method 3050 B and 6010 D	Bangkok
Beryllium	mg/kg	-	0.50	1.10	No Standard	United States Environmental Protection Agency, EPA Method 3050 B and 6010 D	Bangkok
Cadmium	mg/kg	-	0.50	<0.50	≤762	United States Environmental Protection Agency, EPA Method 3050 B and 6010 D	Bangkok
Copper	mg/kg	-	1.00	4.23	≤35040	United States Environmental Protection Agency, EPA Method 3050 B and 6010 D	Bangkok
Hexavalent Chromium	mg/kg	-	0.25	<0.25	≤212	United States Environmental Protection Agency, EPA Method 3060 A and 7196 A	Bangkok
Iron	mg/kg	-	1.00	11486	No Standard	United States Environmental Protection Agency, EPA Method 3050 B and 6010 D	Bangkok
Lead	mg/kg	-	1.00	14.3	≤800	United States Environmental Protection Agency, EPA Method 3050 B and 6010 D	Bangkok
Manganese	mg/kg	-	1.00	251	≤19640	United States Environmental Protection Agency, EPA Method 3050 B and 6010 D	Bangkok
Mercury	mg/kg	-	0.10	<0.10	≤263	United States Environmental Protection Agency, EPA Method 7473	Bangkok
Nickel	mg/kg	-	1.00	10.9	≤5205	United States Environmental Protection Agency, EPA Method 3050 B and 6010 D	Bangkok

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

Approved by

Savitree N.

Savitree Nolsianglam
Manager

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Analysis / Test Report

Client : WHA Rayong 36 Company Limited
777 Moo 13 WHA TOWER, 23rd - 25th Floor, Debaratna Road (Bangna-Trad) KM.7, Bang
Kaeo, Bang Phli, Samut Prakan Thailand 10540
P/O : 54250025
Project Name : Monitoring
Project Location : WHA Rayong 36

Lot ID: 2599230
Date Received : Nov 21, 2025
Date Reported : Dec 03, 2025
Report Number : 3435994-1

Page 2 of 21

Sample Number 2599230-1
Sampled Date Nov 21, 2025 11:53 AM
Sample Description Soil (Dry basis)
Location นางสาวกมลฤดีคุณาภาทำได้นั้น บริเวณพื้นที่สีเขียวด้านทิศตะวันตกเฉียงใต้ของพื้นที่โครงการถลุงเงิน (S1)
Date Analysis Commenced Nov 22, 2025
Condition of Sample Packed in one plastic bag and one amber glass bottle, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
SAR	-	-	1.00	<1.00	No Standard	Soil Test Methods - Southern Cooperative Series Bulletin No. 419 (2014)	Bangkok
Selenium	mg/kg	-	0.50	<0.50	≤4380	United States Environmental Protection Agency, EPA Method 3050 B and 6010 D	Bangkok
Silver	mg/kg	-	1.00	<1.00	No Standard	United States Environmental Protection Agency, EPA Method 3050 B and 6010 D	Bangkok
Soluble Calcium	mg/kg	-	20.0	38.1	No Standard	Soil Test Methods - Southern Cooperative Series Bulletin No. 419 (2014)	Bangkok
Soluble Magnesium	mg/kg	-	20.0	<20.0	No Standard	Soil Test Methods - Southern Cooperative Series Bulletin No. 419 (2014)	Bangkok
Soluble Sodium	mg/kg	-	20.0	<20.0	No Standard	Soil Test Methods - Southern Cooperative Series Bulletin No. 419 (2014)	Bangkok
Trivalent Chromium	mg/kg	-	1.00	32.0	No Standard	United States Environmental Protection Agency, EPA Method 3050 B and 6010 D	Bangkok
Zinc	mg/kg	-	1.00	17.4	No Standard	United States Environmental Protection Agency, EPA Method 3050 B and 6010 D	Bangkok
Physical Parameters							
Moisture	%	-	0.1	7.3	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
Soil Testing							
Cation Exchange Capacity	cmol/kg	-	1	14.0	No Standard	Soil Chemical Methods - Australia (2011)	Bangkok
pH aqueous phase 50% (w/v)	-	-	-	7.8	No Standard	United States Environmental Protection Agency, EPA Method 9045 D	Bangkok

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

Approved by

Savitree N.

Savitree Nolsianglam
Manager

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Analysis / Test Report

Client : WHA Rayong 36 Company Limited
777 Moo 13 WHA TOWER, 23rd - 25th Floor, Debaratna Road (Bangna-Trad) KM.7, Bang
Kaeo, Bang Phli, Samut Prakan Thailand 10540
P/O : 54250025
Project Name : Monitoring
Project Location : WHA Rayong 36

Lot ID: 2599230

Date Received : Nov 21, 2025
Date Reported : Dec 03, 2025
Report Number : 3435994-1

Page 3 of 21

Guideline : Notification of National Environmental Board B.E. 2564 (2021), published in the Royal Government Gazette No. 138 Special Part 54 D dated March 11, B.E.2564

Class 2: Soil usage for commercial, agricultural and others.

Note : Analysis Results expressed on dry basis.

Sampling By : Patchanon Inprik

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

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

Approved by

Sawitree N.

Sawitree Nolsianglam
Manager

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Analysis / Test Report

Client : WHA Rayong 36 Company Limited
777 Moo 13 WHA TOWER, 23rd - 25th Floor, Debaratna Road (Bangna-Trad) KM.7, Bang
Kaeo, Bang Phli, Samut Prakan Thailand 10540
P/O : 54250025
Project Name : Monitoring
Project Location : WHA Rayong 36

Lot ID: 2599230

Date Received : Nov 21, 2025
Date Reported : Dec 03, 2025
Report Number : 3435994-1

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Sample Number 2599230-2

Sampled Date Nov 21, 2025 12:10 PM

Sample Description Soil (Dry basis)

Location นาสงนครการอุตสาหกรรมท่าดินแดง บริเวณพื้นที่พัฒนาศักยภาพสิ่งแวดล้อมเพื่อการวิจัย (S2)

Date Analysis Commenced Nov 22, 2025

Condition of Sample Packed in one plastic bag and one amber glass bottle, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Aluminium	mg/kg	-	1.00	5214	No Standard	United States Environmental Protection Agency, EPA Method 3050 B and 6010 D	Bangkok
Arsenic	mg/kg	-	0.50	7.16	≤25	United States Environmental Protection Agency, EPA Method 3050 B and 6010 D	Bangkok
Barium	mg/kg	-	1.00	59.3	No Standard	United States Environmental Protection Agency, EPA Method 3050 B and 6010 D	Bangkok
Beryllium	mg/kg	-	0.50	0.67	No Standard	United States Environmental Protection Agency, EPA Method 3050 B and 6010 D	Bangkok
Cadmium	mg/kg	-	0.50	<0.50	≤762	United States Environmental Protection Agency, EPA Method 3050 B and 6010 D	Bangkok
Copper	mg/kg	-	1.00	1.82	≤35040	United States Environmental Protection Agency, EPA Method 3050 B and 6010 D	Bangkok
Hexavalent Chromium	mg/kg	-	0.25	<0.25	≤212	United States Environmental Protection Agency, EPA Method 3060 A and 7196 A	Bangkok
Iron	mg/kg	-	1.00	8565	No Standard	United States Environmental Protection Agency, EPA Method 3050 B and 6010 D	Bangkok
Lead	mg/kg	-	1.00	9.12	≤800	United States Environmental Protection Agency, EPA Method 3050 B and 6010 D	Bangkok
Manganese	mg/kg	-	1.00	330	≤19640	United States Environmental Protection Agency, EPA Method 3050 B and 6010 D	Bangkok
Mercury	mg/kg	-	0.10	<0.10	≤263	United States Environmental Protection Agency, EPA Method 7473	Bangkok
Nickel	mg/kg	-	1.00	2.31	≤5205	United States Environmental Protection Agency, EPA Method 3050 B and 6010 D	Bangkok

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

Approved by

Sawitree N.

Sawitree Nolsianglam
Manager

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Analysis / Test Report

Client : WHA Rayong 36 Company Limited
777 Moo 13 WHA TOWER, 23rd - 25th Floor, Debaratna Road (Bangna-Trad) KM.7, Bang
Kaeo, Bang Phli, Samut Prakan Thailand 10540
P/O : 54250025
Project Name : Monitoring
Project Location : WHA Rayong 36

Lot ID: 2599230
Date Received : Nov 21, 2025
Date Reported : Dec 03, 2025
Report Number : 3435994-1

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Sample Number 2599230-2
Sampled Date Nov 21, 2025 12:10 PM
Sample Description Soil (Dry basis)
Location บึงสาธิตการลดผลกระทบจากโรงงานอุตสาหกรรม (S2)
Date Analysis Commenced Nov 22, 2025
Condition of Sample Packed in one plastic bag and one amber glass bottle, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
SAR	-	-	1.00	<1.00	No Standard	Soil Test Methods - Southern Cooperative Series Bulletin No. 419 (2014)	Bangkok
Selenium	mg/kg	-	0.50	<0.50	≤4380	United States Environmental Protection Agency, EPA Method 3050 B and 6010 D	Bangkok
Silver	mg/kg	-	1.00	<1.00	No Standard	United States Environmental Protection Agency, EPA Method 3050 B and 6010 D	Bangkok
Soluble Calcium	mg/kg	-	20.0	<20.0	No Standard	Soil Test Methods - Southern Cooperative Series Bulletin No. 419 (2014)	Bangkok
Soluble Magnesium	mg/kg	-	20.0	<20.0	No Standard	Soil Test Methods - Southern Cooperative Series Bulletin No. 419 (2014)	Bangkok
Soluble Sodium	mg/kg	-	20.0	<20.0	No Standard	Soil Test Methods - Southern Cooperative Series Bulletin No. 419 (2014)	Bangkok
Trivalent Chromium	mg/kg	-	1.00	14.2	No Standard	United States Environmental Protection Agency, EPA Method 3050 B and 6010 D	Bangkok
Zinc	mg/kg	-	1.00	6.82	No Standard	United States Environmental Protection Agency, EPA Method 3050 B and 6010 D	Bangkok
Physical Parameters							
Moisture	%	-	0.1	6.7	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
Soil Testing							
Cation Exchange Capacity	cmo/kg	-	1	10.3	No Standard	Soil Chemical Methods - Australasia (2011)	Bangkok
pH aqueous phase 50% (w/v)	-	-	-	5.5	No Standard	United States Environmental Protection Agency, EPA Method 9045 D	Bangkok

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Approved by

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Analysis / Test Report

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777 Moo 13 WHA TOWER, 23rd - 25th Floor, Debaratna Road (Bangna-Trad) KM.7, Bang
Kaeo, Bang Phli, Samut Prakan Thailand 10540
P/O : 54250025
Project Name : Monitoring
Project Location : WHA Rayong 36

Lot ID: 2599230
Date Received : Nov 21, 2025
Date Reported : Dec 03, 2025
Report Number : 3435994-1

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Guideline : Notification of National Environmental Board B.E. 2564 (2021), published in the Royal Government Gazette No. 138 Special Part 54 D dated March 11, B.E.2564
Class 2: Soil usage for commercial, agricultural and others.
Note : Analysis Results expressed on dry basis.

Sampling By : Patchanon Inprirk

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

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Analysis / Test Report

Client : WHA Rayong 36 Company Limited
777 Moo 13 WHA TOWER, 23rd - 25th Floor, Debaratna Road (Bangna-Trad) KM.7, Bang
Kaeo, Bang Phli, Samut Prakan Thailand 10540
P/O : 54250025
Project Name : Monitoring
Project Location : WHA Rayong 36

Lot ID: 2599230
Date Received : Nov 21, 2025
Date Reported : Dec 03, 2025
Report Number : 3435994-1

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Sample Number 2599230-3
Sampled Date Nov 21, 2025 11:05 AM
Sample Description Soil (Dry basis)
Location นางสาวกมลฤดีคุณาภาทำโดดิน บริเวณพื้นที่สีเขียวของกองโหมของพื้นที่โครงการจตุรัส (S3)
Date Analysis Commenced Nov 22, 2025
Condition of Sample Packed in one plastic bag and one amber glass bottle, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Aluminium	mg/kg	-	1.00	4455	No Standard	United States Environmental Protection Agency, EPA Method 3050 B and 6010 D	Bangkok
Arsenic	mg/kg	-	0.50	3.96	≤25	United States Environmental Protection Agency, EPA Method 3050 B and 6010 D	Bangkok
Barium	mg/kg	-	1.00	18.9	No Standard	United States Environmental Protection Agency, EPA Method 3050 B and 6010 D	Bangkok
Beryllium	mg/kg	-	0.50	<0.50	No Standard	United States Environmental Protection Agency, EPA Method 3050 B and 6010 D	Bangkok
Cadmium	mg/kg	-	0.50	<0.50	≤762	United States Environmental Protection Agency, EPA Method 3050 B and 6010 D	Bangkok
Copper	mg/kg	-	1.00	1.72	≤35040	United States Environmental Protection Agency, EPA Method 3050 B and 6010 D	Bangkok
Hexavalent Chromium	mg/kg	-	0.25	<0.25	≤212	United States Environmental Protection Agency, EPA Method 3060 A and 7196 A	Bangkok
Iron	mg/kg	-	1.00	5215	No Standard	United States Environmental Protection Agency, EPA Method 3050 B and 6010 D	Bangkok
Lead	mg/kg	-	1.00	7.45	≤800	United States Environmental Protection Agency, EPA Method 3050 B and 6010 D	Bangkok
Manganese	mg/kg	-	1.00	172	≤19640	United States Environmental Protection Agency, EPA Method 3050 B and 6010 D	Bangkok
Mercury	mg/kg	-	0.10	<0.10	≤263	United States Environmental Protection Agency, EPA Method 7473	Bangkok
Nickel	mg/kg	-	1.00	1.38	≤5205	United States Environmental Protection Agency, EPA Method 3050 B and 6010 D	Bangkok

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

Approved by

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Savitree Nolsianglam
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Analysis / Test Report

Client : WHA Rayong 36 Company Limited
777 Moo 13 WHA TOWER, 23rd - 25th Floor, Debaratna Road (Bangna-Trad) KM.7, Bang
Kaeo, Bang Phli, Samut Prakan Thailand 10540
P/O : 54250025
Project Name : Monitoring
Project Location : WHA Rayong 36

Lot ID: 2599230
Date Received : Nov 21, 2025
Date Reported : Dec 03, 2025
Report Number : 3435994-1

Page 8 of 21

Sample Number 2599230-3
Sampled Date Nov 21, 2025 11:05 AM
Sample Description Soil (Dry basis)
Location นางสาวกมลฤดีคุณาภาทำโดดิน บริเวณพื้นที่สีเขียวของกองโหมของพื้นที่โครงการจตุรัส (S3)
Date Analysis Commenced Nov 22, 2025
Condition of Sample Packed in one plastic bag and one amber glass bottle, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
SAR	-	-	1.00	<1.00	No Standard	Soil Test Methods - Southern Cooperative Series Bulletin No. 419 (2014)	Bangkok
Selenium	mg/kg	-	0.50	<0.50	≤4380	United States Environmental Protection Agency, EPA Method 3050 B and 6010 D	Bangkok
Silver	mg/kg	-	1.00	<1.00	No Standard	United States Environmental Protection Agency, EPA Method 3050 B and 6010 D	Bangkok
Soluble Calcium	mg/kg	-	20.0	<20.0	No Standard	Soil Test Methods - Southern Cooperative Series Bulletin No. 419 (2014)	Bangkok
Soluble Magnesium	mg/kg	-	20.0	<20.0	No Standard	Soil Test Methods - Southern Cooperative Series Bulletin No. 419 (2014)	Bangkok
Soluble Sodium	mg/kg	-	20.0	<20.0	No Standard	Soil Test Methods - Southern Cooperative Series Bulletin No. 419 (2014)	Bangkok
Trivalent Chromium	mg/kg	-	1.00	6.78	No Standard	United States Environmental Protection Agency, EPA Method 3050 B and 6010 D	Bangkok
Zinc	mg/kg	-	1.00	4.75	No Standard	United States Environmental Protection Agency, EPA Method 3050 B and 6010 D	Bangkok
Physical Parameters							
Moisture	%	-	0.1	7.1	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
Soil Testing							
Cation Exchange Capacity	cmol/kg	-	1	9.8	No Standard	Soil Chemical Methods - Australasia (2011)	Bangkok
pH aqueous phase 50% (w/v)	-	-	-	5.0	No Standard	United States Environmental Protection Agency, EPA Method 9045 D	Bangkok

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Approved by

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Savitree Nolsianglam
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Analysis / Test Report

Client : WHA Rayong 36 Company Limited
777 Moo 13 WHA TOWER, 23rd - 25th Floor, Debaratna Road (Bangna-Trad) KM.7, Bang
Kaeo, Bang Phli, Samut Prakan Thailand 10540
P/O : 54250025
Project Name : Monitoring
Project Location : WHA Rayong 36

Lot ID: 2599230

Date Received : Nov 21, 2025
Date Reported : Dec 03, 2025
Report Number : 3435994-1

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Guideline : Notification of National Environmental Board B.E. 2564 (2021), published in the Royal Government Gazette No. 138 Special Part 54 D dated March 11, B.E.2564

Class 2: Soil usage for commercial, agricultural and others.

Note : Analysis Results expressed on dry basis.

Sampling By : Patchanon Inprik

Remark :

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

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Analysis / Test Report

Client : WHA Rayong 36 Company Limited
777 Moo 13 WHA TOWER, 23rd - 25th Floor, Debaratna Road (Bangna-Trad) KM.7, Bang
Kaeo, Bang Phli, Samut Prakan Thailand 10540
P/O : 54250025
Project Name : Monitoring
Project Location : WHA Rayong 36

Lot ID: 2599230

Date Received : Nov 21, 2025
Date Reported : Dec 03, 2025
Report Number : 3435994-1

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Sample Number 2599230-4

Sampled Date Nov 21, 2025 11:25 AM

Sample Description Soil (Dry basis)

Location นาสงคกรการลดสภาพน้ำใต้ดิน บริเวณพื้นที่สำนักงานที่ดินเขตเมืองกรุงเทพมหานคร 1 ของพื้นที่โครงการรังสิต (S4)

Date Analysis Commenced Nov 22, 2025

Condition of Sample Packed in one plastic bag and one amber glass bottle, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Aluminium	mg/kg	-	1.00	1558	No Standard	United States Environmental Protection Agency, EPA Method 3050 B and 6010 D	Bangkok
Arsenic	mg/kg	-	0.50	4.97	≤25	United States Environmental Protection Agency, EPA Method 3050 B and 6010 D	Bangkok
Barium	mg/kg	-	1.00	14.9	No Standard	United States Environmental Protection Agency, EPA Method 3050 B and 6010 D	Bangkok
Beryllium	mg/kg	-	0.50	<0.50	No Standard	United States Environmental Protection Agency, EPA Method 3050 B and 6010 D	Bangkok
Cadmium	mg/kg	-	0.50	<0.50	≤762	United States Environmental Protection Agency, EPA Method 3050 B and 6010 D	Bangkok
Copper	mg/kg	-	1.00	2.33	≤35040	United States Environmental Protection Agency, EPA Method 3050 B and 6010 D	Bangkok
Hexavalent Chromium	mg/kg	-	0.25	<0.25	≤212	United States Environmental Protection Agency, EPA Method 3060 A and 7196 A	Bangkok
Iron	mg/kg	-	1.00	4761	No Standard	United States Environmental Protection Agency, EPA Method 3050 B and 6010 D	Bangkok
Lead	mg/kg	-	1.00	10.6	≤800	United States Environmental Protection Agency, EPA Method 3050 B and 6010 D	Bangkok
Manganese	mg/kg	-	1.00	102	≤19640	United States Environmental Protection Agency, EPA Method 3050 B and 6010 D	Bangkok
Mercury	mg/kg	-	0.10	<0.10	≤263	United States Environmental Protection Agency, EPA Method 7473	Bangkok
Nickel	mg/kg	-	1.00	2.79	≤5205	United States Environmental Protection Agency, EPA Method 3050 B and 6010 D	Bangkok

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

Approved by

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Sawitree Nolsianglam
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Analysis / Test Report

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777 Moo 13 WHA TOWER, 23rd - 25th Floor, Debaratna Road (Bangna-Trad) KM.7, Bang
Kaeo, Bang Phli, Samut Prakan Thailand 10540
P/O : 54250025
Project Name : Monitoring
Project Location : WHA Rayong 36

Lot ID: 2599230
Date Received : Nov 21, 2025
Date Reported : Dec 03, 2025
Report Number : 3435994-1

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Sample Number 2599230-4
Sampled Date Nov 21, 2025 11:25 AM
Sample Description Soil (Dry basis)
Location บึงสาธิตการดูแลสภาพน้ำใต้ดิน บริเวณพื้นที่สีม่วงด้านทิศใต้ติดกับหนองน้ำหมู่ที่ 1 ของพื้นที่โครงการบ้าน (S4)
Date Analysis Commenced Nov 22, 2025
Condition of Sample Packed in one plastic bag and one amber glass bottle, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
SAR	-	-	1.00	<1.00	No Standard	Soil Test Methods - Southern Cooperative Series Bulletin No. 419 (2014)	Bangkok
Selenium	mg/kg	-	0.50	<0.50	≤4380	United States Environmental Protection Agency, EPA Method 3050 B and 6010 D	Bangkok
Silver	mg/kg	-	1.00	<1.00	No Standard	United States Environmental Protection Agency, EPA Method 3050 B and 6010 D	Bangkok
Soluble Calcium	mg/kg	-	20.0	<20.0	No Standard	Soil Test Methods - Southern Cooperative Series Bulletin No. 419 (2014)	Bangkok
Soluble Magnesium	mg/kg	-	20.0	<20.0	No Standard	Soil Test Methods - Southern Cooperative Series Bulletin No. 419 (2014)	Bangkok
Soluble Sodium	mg/kg	-	20.0	<20.0	No Standard	Soil Test Methods - Southern Cooperative Series Bulletin No. 419 (2014)	Bangkok
Trivalent Chromium	mg/kg	-	1.00	13.0	No Standard	United States Environmental Protection Agency, EPA Method 3050 B and 6010 D	Bangkok
Zinc	mg/kg	-	1.00	8.80	No Standard	United States Environmental Protection Agency, EPA Method 3050 B and 6010 D	Bangkok
Physical Parameters							
Moisture	%	-	0.1	1.6	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
Soil Testing							
Cation Exchange Capacity	cmo/kg	-	1	11.6	No Standard	Soil Chemical Methods - Australasia (2011)	Bangkok
pH aqueous phase 50% (w/v)	-	-	-	6.7	No Standard	United States Environmental Protection Agency, EPA Method 9045 D	Bangkok

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Approved by

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P/O : 54250025
Project Name : Monitoring
Project Location : WHA Rayong 36

Lot ID: 2599230
Date Received : Nov 21, 2025
Date Reported : Dec 03, 2025
Report Number : 3435994-1

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Guideline : Notification of National Environmental Board B.E. 2564 (2021), published in the Royal Government Gazette No. 138 Special Part 54 D dated March 11, B.E.2564
Class 2: Soil usage for commercial, agricultural and others.
Note : Analysis Results expressed on dry basis.

Sampling By : Patchanon Inprikh

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

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P/O : 54250025
Project Name : Monitoring
Project Location : WHA Rayong 36

Lot ID: 2599230
Date Received : Nov 21, 2025
Date Reported : Dec 03, 2025
Report Number : 3435994-1

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Sample Number 2599230-5
Sampled Date Nov 21, 2025 12:27 PM
Sample Description Soil (Dry basis)
Location นาสงคกรรณภักวพื้นที่สิ่นวค่านทีละวกลกเง่งเหลองพื้นที่โครงการสำนวนข (S5)
Date Analysis Commenced Nov 22, 2025
Condition of Sample Packed in one plastic bag and one amber glass bottle, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Aluminium	mg/kg	-	1.00	3469	No Standard	United States Environmental Protection Agency, EPA Method 3050 B and 6010 D	Bangkok
Arsenic	mg/kg	-	0.50	1.90	≤25	United States Environmental Protection Agency, EPA Method 3050 B and 6010 D	Bangkok
Barium	mg/kg	-	1.00	9.63	No Standard	United States Environmental Protection Agency, EPA Method 3050 B and 6010 D	Bangkok
Beryllium	mg/kg	-	0.50	<0.50	No Standard	United States Environmental Protection Agency, EPA Method 3050 B and 6010 D	Bangkok
Cadmium	mg/kg	-	0.50	<0.50	≤762	United States Environmental Protection Agency, EPA Method 3050 B and 6010 D	Bangkok
Copper	mg/kg	-	1.00	1.32	≤35040	United States Environmental Protection Agency, EPA Method 3050 B and 6010 D	Bangkok
Hexavalent Chromium	mg/kg	-	0.25	<0.25	≤212	United States Environmental Protection Agency, EPA Method 3060 A and 7196 A	Bangkok
Iron	mg/kg	-	1.00	2782	No Standard	United States Environmental Protection Agency, EPA Method 3050 B and 6010 D	Bangkok
Lead	mg/kg	-	1.00	7.17	≤800	United States Environmental Protection Agency, EPA Method 3050 B and 6010 D	Bangkok
Manganese	mg/kg	-	1.00	151	≤19640	United States Environmental Protection Agency, EPA Method 3050 B and 6010 D	Bangkok
Mercury	mg/kg	-	0.10	<0.10	≤263	United States Environmental Protection Agency, EPA Method 7473	Bangkok
Nickel	mg/kg	-	1.00	1.18	≤5205	United States Environmental Protection Agency, EPA Method 3050 B and 6010 D	Bangkok

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

Approved by

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Sawitree Nolsianglam
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Analysis / Test Report

Client : WHA Rayong 36 Company Limited
777 Moo 13 WHA TOWER, 23rd - 25th Floor, Debaratna Road (Bangna-Trad) KM.7, Bang
Kaeo, Bang Phli, Samut Prakan Thailand 10540
P/O : 54250025
Project Name : Monitoring
Project Location : WHA Rayong 36

Lot ID: 2599230
Date Received : Nov 21, 2025
Date Reported : Dec 03, 2025
Report Number : 3435994-1

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Sample Number 2599230-5
Sampled Date Nov 21, 2025 12:27 PM
Sample Description Soil (Dry basis)
Location นาสงคกรรณภักวพื้นที่สิ่นวค่านทีละวกลกเง่งเหลองพื้นที่โครงการสำนวนข (S5)
Date Analysis Commenced Nov 22, 2025
Condition of Sample Packed in one plastic bag and one amber glass bottle, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
SAR	-	-	1.00	<1.00	No Standard	Soil Test Methods - Southern Cooperative Series Bulletin No. 419 (2014)	Bangkok
Selenium	mg/kg	-	0.50	<0.50	≤4380	United States Environmental Protection Agency, EPA Method 3050 B and 6010 D	Bangkok
Silver	mg/kg	-	1.00	<1.00	No Standard	United States Environmental Protection Agency, EPA Method 3050 B and 6010 D	Bangkok
Soluble Calcium	mg/kg	-	20.0	<20.0	No Standard	Soil Test Methods - Southern Cooperative Series Bulletin No. 419 (2014)	Bangkok
Soluble Magnesium	mg/kg	-	20.0	<20.0	No Standard	Soil Test Methods - Southern Cooperative Series Bulletin No. 419 (2014)	Bangkok
Soluble Sodium	mg/kg	-	20.0	<20.0	No Standard	Soil Test Methods - Southern Cooperative Series Bulletin No. 419 (2014)	Bangkok
Trivalent Chromium	mg/kg	-	1.00	6.22	No Standard	United States Environmental Protection Agency, EPA Method 3050 B and 6010 D	Bangkok
Zinc	mg/kg	-	1.00	4.60	No Standard	United States Environmental Protection Agency, EPA Method 3050 B and 6010 D	Bangkok
Physical Parameters							
Moisture	%	-	0.1	5.9	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
Soil Testing							
Cation Exchange Capacity	cmol/kg	-	1	8.3	No Standard	Soil Chemical Methods - Australasia (2011)	Bangkok
pH aqueous phase 50% (w/v)	-	-	-	6.4	No Standard	United States Environmental Protection Agency, EPA Method 9045 D	Bangkok

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Sawitree Nolsianglam
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Analysis / Test Report

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Kaeo, Bang Phli, Samut Prakan Thailand 10540
P/O : 54250025
Project Name : Monitoring
Project Location : WHA Rayong 36

Lot ID: 2599230

Date Received : Nov 21, 2025
Date Reported : Dec 03, 2025
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Guideline : Notification of National Environmental Board B.E. 2564 (2021), published in the Royal Government Gazette No. 138 Special Part 54 D dated March 11, B.E.2564

Class 2: Soil usage for commercial, agricultural and others.

Note : Analysis Results expressed on dry basis.

Sampling By : Patchanon Inpruk

Remark :

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

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P/O : 54250025
Project Name : Monitoring
Project Location : WHA Rayong 36

Lot ID: 2599230

Date Received : Nov 21, 2025
Date Reported : Dec 03, 2025
Report Number : 3435994-1

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Sample Number 2599230-6

Sampled Date Nov 21, 2025 10:18 AM

Sample Description Soil (Dry basis)

Location ฝั่งคลองการกั้นบริเวณพื้นที่สิ่งแวดล้อมด้านทิศตะวันตกของพื้นที่โครงการสวนนก (S6)

Date Analysis Commenced Nov 22, 2025

Condition of Sample Packed in one plastic bag and one amber glass bottle, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Aluminium	mg/kg	-	1.00	9122	No Standard	United States Environmental Protection Agency, EPA Method 3050 B and 6010 D	Bangkok
Arsenic	mg/kg	-	0.50	17.1	≤25	United States Environmental Protection Agency, EPA Method 3050 B and 6010 D	Bangkok
Barium	mg/kg	-	1.00	142	No Standard	United States Environmental Protection Agency, EPA Method 3050 B and 6010 D	Bangkok
Beryllium	mg/kg	-	0.50	0.70	No Standard	United States Environmental Protection Agency, EPA Method 3050 B and 6010 D	Bangkok
Cadmium	mg/kg	-	0.50	<0.50	≤762	United States Environmental Protection Agency, EPA Method 3050 B and 6010 D	Bangkok
Copper	mg/kg	-	1.00	1.62	≤35040	United States Environmental Protection Agency, EPA Method 3050 B and 6010 D	Bangkok
Hexavalent Chromium	mg/kg	-	0.25	<0.25	≤212	United States Environmental Protection Agency, EPA Method 3060 A and 7196 A	Bangkok
Iron	mg/kg	-	1.00	8844	No Standard	United States Environmental Protection Agency, EPA Method 3050 B and 6010 D	Bangkok
Lead	mg/kg	-	1.00	19.9	≤800	United States Environmental Protection Agency, EPA Method 3050 B and 6010 D	Bangkok
Manganese	mg/kg	-	1.00	492	≤19640	United States Environmental Protection Agency, EPA Method 3050 B and 6010 D	Bangkok
Mercury	mg/kg	-	0.10	<0.10	≤263	United States Environmental Protection Agency, EPA Method 7473	Bangkok
Nickel	mg/kg	-	1.00	7.50	≤5205	United States Environmental Protection Agency, EPA Method 3050 B and 6010 D	Bangkok

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

Approved by

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Analysis / Test Report

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P/O : 54250025
Project Name : Monitoring
Project Location : WHA Rayong 36

Lot ID: 2599230
Date Received : Nov 21, 2025
Date Reported : Dec 03, 2025
Report Number : 3435994-1

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Sample Number 2599230-6
Sampled Date Nov 21, 2025 10:18 AM
Sample Description Soil (Dry basis)
Location บึงสาธิตการปลูกข้าวพันธุ์สีเขียวนานาชาติแปลงที่หนึ่งโครงการสวนวนาน (S6)
Date Analysis Commenced Nov 22, 2025
Condition of Sample Packed in one plastic bag and one amber glass bottle, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
SAR	-	-	1.00	<1.00	No Standard	Soil Test Methods - Southern Cooperative Series Bulletin No. 419 (2014)	Bangkok
Selenium	mg/kg	-	0.50	<0.50	≤4380	United States Environmental Protection Agency, EPA Method 3050 B and 6010 D	Bangkok
Silver	mg/kg	-	1.00	<1.00	No Standard	United States Environmental Protection Agency, EPA Method 3050 B and 6010 D	Bangkok
Soluble Calcium	mg/kg	-	20.0	<20.0	No Standard	Soil Test Methods - Southern Cooperative Series Bulletin No. 419 (2014)	Bangkok
Soluble Magnesium	mg/kg	-	20.0	<20.0	No Standard	Soil Test Methods - Southern Cooperative Series Bulletin No. 419 (2014)	Bangkok
Soluble Sodium	mg/kg	-	20.0	<20.0	No Standard	Soil Test Methods - Southern Cooperative Series Bulletin No. 419 (2014)	Bangkok
Trivalent Chromium	mg/kg	-	1.00	19.9	No Standard	United States Environmental Protection Agency, EPA Method 3050 B and 6010 D	Bangkok
Zinc	mg/kg	-	1.00	4.42	No Standard	United States Environmental Protection Agency, EPA Method 3050 B and 6010 D	Bangkok
Physical Parameters							
Moisture	%	-	0.1	11.5	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
Soil Testing							
Cation Exchange Capacity	cmo/kg	-	1	23.2	No Standard	Soil Chemical Methods - Australasia (2011)	Bangkok
pH aqueous phase 50% (w/v)	-	-	-	5.3	No Standard	United States Environmental Protection Agency, EPA Method 9045 D	Bangkok

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

Approved by

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Kaeo, Bang Phli, Samut Prakan Thailand 10540
P/O : 54250025
Project Name : Monitoring
Project Location : WHA Rayong 36

Lot ID: 2599230
Date Received : Nov 21, 2025
Date Reported : Dec 03, 2025
Report Number : 3435994-1

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Guideline : Notification of National Environmental Board B.E. 2564 (2021), published in the Royal Government Gazette No. 138 Special Part 54 D dated March 11, B.E.2564
Class 2: Soil usage for commercial, agricultural and others.
Note : Analysis Results expressed on dry basis.

Sampling By : Patchanon Inprikh

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

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Kaeo, Bang Phli, Samut Prakan Thailand 10540
P/O : 54250025
Project Name : Monitoring
Project Location : WHA Rayong 36

Lot ID: 2599230
Date Received : Nov 21, 2025
Date Reported : Dec 03, 2025
Report Number : 3435994-1

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Sample Number 2599230-7
Sampled Date Nov 21, 2025 10:40 AM
Sample Description Soil (Dry basis)
Location นาสงคตการบึงหวังพื้นที่สีเขียวด้านทิศตะวันตกเฉียงเหนือของพื้นที่โครงการสวนนกข (S7)
Date Analysis Commenced Nov 22, 2025
Condition of Sample Packed in one plastic bag and one amber glass bottle, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Aluminium	mg/kg	-	1.00	9336	No Standard	United States Environmental Protection Agency, EPA Method 3050 B and 6010 D	Bangkok
Arsenic	mg/kg	-	0.50	13.8	≤25	United States Environmental Protection Agency, EPA Method 3050 B and 6010 D	Bangkok
Barium	mg/kg	-	1.00	26.7	No Standard	United States Environmental Protection Agency, EPA Method 3050 B and 6010 D	Bangkok
Beryllium	mg/kg	-	0.50	<0.50	No Standard	United States Environmental Protection Agency, EPA Method 3050 B and 6010 D	Bangkok
Cadmium	mg/kg	-	0.50	<0.50	≤762	United States Environmental Protection Agency, EPA Method 3050 B and 6010 D	Bangkok
Copper	mg/kg	-	1.00	1.49	≤35040	United States Environmental Protection Agency, EPA Method 3050 B and 6010 D	Bangkok
Hexavalent Chromium	mg/kg	-	0.25	<0.25	≤212	United States Environmental Protection Agency, EPA Method 3060 A and 7196 A	Bangkok
Iron	mg/kg	-	1.00	10803	No Standard	United States Environmental Protection Agency, EPA Method 3050 B and 6010 D	Bangkok
Lead	mg/kg	-	1.00	11.8	≤800	United States Environmental Protection Agency, EPA Method 3050 B and 6010 D	Bangkok
Manganese	mg/kg	-	1.00	38.5	≤19640	United States Environmental Protection Agency, EPA Method 3050 B and 6010 D	Bangkok
Mercury	mg/kg	-	0.10	<0.10	≤263	United States Environmental Protection Agency, EPA Method 7473	Bangkok
Nickel	mg/kg	-	1.00	1.64	≤5205	United States Environmental Protection Agency, EPA Method 3050 B and 6010 D	Bangkok

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

Approved by

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Analysis / Test Report

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Kaeo, Bang Phli, Samut Prakan Thailand 10540
P/O : 54250025
Project Name : Monitoring
Project Location : WHA Rayong 36

Lot ID: 2599230
Date Received : Nov 21, 2025
Date Reported : Dec 03, 2025
Report Number : 3435994-1

Page 20 of 21

Sample Number 2599230-7
Sampled Date Nov 21, 2025 10:40 AM
Sample Description Soil (Dry basis)
Location นาสงคตการบึงหวังพื้นที่สีเขียวด้านทิศตะวันตกเฉียงเหนือของพื้นที่โครงการสวนนกข (S7)
Date Analysis Commenced Nov 22, 2025
Condition of Sample Packed in one plastic bag and one amber glass bottle, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
SAR	-	-	1.00	<1.00	No Standard	Soil Test Methods - Southern Cooperative Series Bulletin No. 419 (2014)	Bangkok
Selenium	mg/kg	-	0.50	<0.50	≤4380	United States Environmental Protection Agency, EPA Method 3050 B and 6010 D	Bangkok
Silver	mg/kg	-	1.00	<1.00	No Standard	United States Environmental Protection Agency, EPA Method 3050 B and 6010 D	Bangkok
Soluble Calcium	mg/kg	-	20.0	<20.0	No Standard	Soil Test Methods - Southern Cooperative Series Bulletin No. 419 (2014)	Bangkok
Soluble Magnesium	mg/kg	-	20.0	<20.0	No Standard	Soil Test Methods - Southern Cooperative Series Bulletin No. 419 (2014)	Bangkok
Soluble Sodium	mg/kg	-	20.0	<20.0	No Standard	Soil Test Methods - Southern Cooperative Series Bulletin No. 419 (2014)	Bangkok
Trivalent Chromium	mg/kg	-	1.00	6.59	No Standard	United States Environmental Protection Agency, EPA Method 3050 B and 6010 D	Bangkok
Zinc	mg/kg	-	1.00	4.21	No Standard	United States Environmental Protection Agency, EPA Method 3050 B and 6010 D	Bangkok
Physical Parameters							
Moisture	%	-	0.1	11.8	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
Soil Testing							
Cation Exchange Capacity	cmol/kg	-	1	38.5	No Standard	Soil Chemical Methods - Australasia (2011)	Bangkok
pH aqueous phase 50% (w/v)	-	-	-	4.7	No Standard	United States Environmental Protection Agency, EPA Method 9045 D	Bangkok

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Approved by

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P/O : 54250025
Project Name : Monitoring
Project Location : WHA Rayong 36

Lot ID: 2599230
Date Received : Nov 21, 2025
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Report Number : 3435994-1

Page 21 of 21

Guideline : Notification of National Environmental Board B.E. 2564 (2021), published in the Royal Government Gazette No. 138 Special Part 54 D dated March 11, B.E.2564

Class 2: Soil usage for commercial, agricultural and others.

Note : Analysis Results expressed on dry basis.

Sampling By : Patchanon Inprirk

Remark :

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

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