

ภาคผนวก ก

ผลวิเคราะห์คุณภาพน้ำทิ้ง

โครงการโรงแรมแคนทารี โคราช

ประจำเดือน กันยายน 2567

(น้ำทิ้ง-หลังผ่านการบำบัด)



United Analyst and Engineering Consultant Co., Ltd.
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NSC-TISI-TIS 17025
TESTING 0207

TESTING
No. 0063

ANALYSIS REPORT

CUSTOMER NAME : BL HUA COMPANY LIMITED
ADDRESS : 899/1, 899/2 MITRAPART ROAD NAI MUEANG MUEANG NAKHON RATCHASIMA NAKHON RATCHASIMA 30000
CONTACT INFORMATION : TEL : 0 2233 8989-98 e-mail : kj-qc@kasemkij.com
SAMPLING SOURCE : WASTEWATER TREATMENT PLANT OF KANTARY HOTEL, KORAT
SAMPLE TYPE : EFFLUENT
SAMPLING DATE : SEPTEMBER 25, 2024
SAMPLING TIME : -
SAMPLING METHOD : -
SAMPLING BY : CUSTOMER
ANALYZED BY : MISS NAPAPORN KHUNNOKKHUM
RECEIVED DATE : SEPTEMBER 26, 2024
ANALYTICAL DATE : SEPTEMBER 26 - OCTOBER 2, 2024
ISSUE DATE : OCTOBER 4, 2024
REPORT NO. : 2024-U092522
WORK NO. : 2024-008282
ANALYSIS NO. : T24AW567-0001

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			EFFLUENT (KOR 1) T24AW567-0001		
pH ^a	-	ELECTROMETRIC METHOD (SM: PART 4500-H ⁺ B)	6.9 (25°C)	5.5-9.0	-
BIOCHEMICAL OXYGEN DEMAND ^{a c}	mg/L	AZIDE MODIFICATION METHOD (SM: PART 5210 B AND PART 4500-O C)	9.1	≤ 20	2.0
TOTAL SUSPENDED SOLIDS ^a	mg/L	TOTAL SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: PART 2540 D)	15.8	≤ 30	5.0
TOTAL DISSOLVED SOLIDS ^b	mg/L	TOTAL DISSOLVED SOLIDS DRIED AT 180 °C (SM: PART 2540 C)	404	≤ 1,000	25
SETTLABLE SOLIDS ^c	mL/L	IMHOFF CONE (SM: PART 2540 F)	< 0.1	-	0.1
SULPHIDE ^b	mg/L	IODOMETRIC METHOD (SM: PART 4500-S ²⁻ F)	< 0.50	≤ 1.0	0.50
TOTAL KJELDAHL NITROGEN ^b	mg/L	IN-HOUSE METHOD: UAE.TP.WAS.001 (KJELDAHL METHOD); SM: PART 4500-Norg C	< LOQ	≤ 35	1.5
OIL AND GREASE ^c	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: PART 5520 B)	ND	≤ 20	3

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PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			EFFLUENT (KOR 1) T24AW567-0001		
MICROBIOLOGY					
FAECAL COLIFORM BACTERIA ^b	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: PART 9221 B, C AND E)	1,400	-	1.8
COLIFORM BACTERIA ^b	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: PART 9221 B AND C)	7,900	-	1.8
SAMPLE CONDITION					
WATER'S COLOUR/TURBID			YELLOW/TURBID		
SEDIMENT			YELLOW		

^a : ISO/IEC 17025 ACCREDITED BY THAI INDUSTRIAL STANDARDS INSTITUTE (TISI)

^b : ISO/IEC 17025 ACCREDITED BY DEPARTMENT OF SCIENCE SERVICE (DSS)

^c : VERIFIED BY OWN LABORATORY QUALITY SYSTEM, BUT STILL NOT ACCREDITED

IN-HOUSE : BASED ON STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 24th EDITION, 2023.

SM : STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 24th EDITION, 2023.

REGULATORY STANDARD : RANGE OR MAXIMUM PERMITTED VALUE FOR BUILDING EFFLUENT STANDARDS CLASS A, NOTIFICATION OF THE MINISTRY OF RESOURCES AND ENVIRONMENT, PUBLISHED IN THE ROYAL GOVERNMENT GAZETTE, VOL 141, PART 233 D, DATED AUGUST 27, 2024.

* : ADDITION OF NITRIFICATION INHIBITION (TCMP) FOLLOW TO THE SM: 5210B,5(e).

ND : NOT DETECTED.

< LOQ : < LIMIT OF QUANTITATION (TOTAL KJELDAHL NITROGEN ≥ 1.5 AND < 5.0 mg/L).

Piyapat S.

(MRS PIYAPAT SUTTAMANUTWONG)
LABORATORY SUPERVISOR

ANALYSIS REPORT

CUSTOMER NAME : BL HUA COMPANY LIMITED
ADDRESS : 899/1, 899/2 MITRAPART ROAD NAI MUEANG MUEANG NAKHON RATCHASIMA NAKHON RATCHASIMA 30000
CONTACT INFORMATION : TEL : 0 2233 8989-98 e-mail : kj-qc@kasemkij.com
SAMPLING SOURCE : KANTARY HOTEL KORAT
SAMPLE TYPE : WATER SUPPLY
SAMPLING DATE : SEPTEMBER 25, 2024
SAMPLING TIME : -
SAMPLING METHOD : -
SAMPLING BY : CUSTOMER
ANALYZED BY : MISS NAPAPORN KHUNNOKKHUM

RECEIVED DATE : SEPTEMBER 26, 2024
ANALYTICAL DATE : SEPTEMBER 26-30, 2024
ISSUE DATE : OCTOBER 4, 2024
REPORT NO. : 2024-U092530
WORK NO. : 2024-008282
ANALYSIS NO. : T24AW567-0002

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			WATER SUPPLY T24AW567-0002		
TOTAL DISSOLVED SOLIDS ^b	mg/L	TOTAL DISSOLVED SOLIDS DRIED AT 180 °C (SM: PART 2540 C)	171	≤ 1,000	25
SAMPLE CONDITION WATER'S COLOUR/TURBID SEDIMENT			COLOURLESS/CLEAR		

^a : ISO/IEC 17025 ACCREDITED BY THAI INDUSTRIAL STANDARDS INSTITUTE (TISI)

^b : ISO/IEC 17025 ACCREDITED BY DEPARTMENT OF SCIENCE SERVICE (DSS)

^c : VERIFIED BY OWN LABORATORY QUALITY SYSTEM, BUT STILL NOT ACCREDITED

SM : STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 24th EDITION, 2023.

REGULATORY STANDARD : WATER SUPPLY STANDARDS, NOTIFICATION OF THE PROVINCIAL WATERWORKS AUTHORITY FOLLOW AS WORLD HEALTH ORGANIZATION (WHO) GUIDELINE VALUE, B.E. 2554 (2011).

Piyapat S.

(MRS PIYAPAT SUTTAMANUTWONG)
LABORATORY SUPERVISOR



ผลวิเคราะห์คุณภาพน้ำสระว่ายนํ้า

โครงการโรงแรมแคนทารี โคราช

ประจำเดือน กันยายน และ ธันวาคม 2567

(น้ำสระ-ส่วนลึก)

ประจำเดือน กันยายน 2567



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ANALYSIS REPORT

CUSTOMER NAME : BL HUA COMPANY LIMITED
ADDRESS : 899/1, 899/2 MITRAPART ROAD NAI MUEANG MUEANG NAKHON RATCHASIMA NAKHON RATCHASIMA 30000
CONTACT INFORMATION : TEL : 0 2233 8989-98 e-mail : kj-qc@kasemkij.com
SAMPLING SOURCE : KANTARY HOTEL KORAT
SAMPLE TYPE : WATER SAMPLE FROM SWIMMING POOL
SAMPLING DATE : SEPTEMBER 25, 2024
SAMPLING TIME : -
SAMPLING METHOD : -
SAMPLING BY : CUSTOMER
ANALYZED BY : MISS SALISA KAMWANNA
RECEIVED DATE : SEPTEMBER 26, 2024
ANALYTICAL DATE : SEPTEMBER 26 - OCTOBER 2, 2024
ISSUE DATE : OCTOBER 10, 2024
REPORT NO. : 2024-U094101
WORK NO. : 2024-008283
ANALYSIS NO. : T24AW566-0001

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			SWIMMING POOL (DEEP ZONE) T24AW566-0001		
MICROBIOLOGY					
COLIFORM BACTERIA ^b	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: PART 9221 B AND C)	< 1.1	< 10	1.1
<i>E. coli</i> ^b	/100 mL	FLUOROGENIC SUBSTRATE TEST (SM: PART 9221 D AND F)	NOT DETECTED	NOT DETECTED	-
<i>Pseudomonas aeruginosa</i> ^c	/100 mL	MEMBRANE FILTER TECHNIQUE (ISO 16266)	NOT DETECTED	1/	-
SAMPLE CONDITION					
WATER'S COLOUR/TURBID			COLOURLESS/CLEAR		
SEDIMENT			-		

^a : ISO/IEC 17025 ACCREDITED BY THAI INDUSTRIAL STANDARDS INSTITUTE (TISI)

^b : ISO/IEC 17025 ACCREDITED BY DEPARTMENT OF SCIENCE SERVICE (DSS)

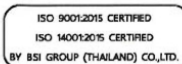
^c : VERIFIED BY OWN LABORATORY QUALITY SYSTEM, BUT STILL NOT ACCREDITED

SM : STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 24th EDITION, 2023.

REGULATORY STANDARD : BANGKOK METROPOLITAN REGULATIONS FOR THE BUSINESS DISTRIKTAL TO HEALTH, B.E. 2530 (1987).

1/ : DISEASE-CAUSING BACTERIA IS NOT DETECTED.

(MISS CHAWEEVAN BOONLA)
LABORATORY SUPERVISOR



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ISO/IEC 17025
Accreditation No. 1349/65

ANALYSIS REPORT

CUSTOMER NAME : BL HUA COMPANY LIMITED
ADDRESS : 899/1, 899/2 MITRAPART ROAD NAI MUEANG MUEANG NAKHON RATCHASIMA NAKHON RATCHASIMA 30000
CONTACT INFORMATION : TEL : 0 2233 8989-98 e-mail : kj-qc@kasemkij.com
SAMPLING SOURCE : KANTARY HOTEL KORAT
SAMPLE TYPE : WATER SAMPLE FROM SWIMMING POOL
SAMPLING DATE : SEPTEMBER 25, 2024
SAMPLING TIME : -
SAMPLING METHOD : -
SAMPLING BY : CUSTOMER
ANALYZED BY : MR NUTTACHOK LAKHAMMOON

RECEIVED DATE : SEPTEMBER 26, 2024
ANALYTICAL DATE : SEPTEMBER 26-29, 2024
ISSUE DATE : OCTOBER 10, 2024
REPORT NO. : 2024-U094102
WORK NO. : 2024-008283
ANALYSIS NO. : T24AW566-0001

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD
			SWIMMING POOL (DEEP ZONE) T24AW566-0001	
MICROBIOLOGY				
Staphylococcus aureus	/100 mL	STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER. APHA, AWWA, WEF. 24th EDITION, 2023. PART 9213 B.	NOT DETECTED	1/
SAMPLE CONDITION WATER'S COLOUR/TURBID SEDIMENT			COLOURLESS/CLEAR	

THE LABORATORY HAS BEEN ACCEPTED AS AN ACCREDITED LABORATORY COMPLYING WITH THE ISO/IEC 17025.

REGULATORY STANDARD : BANGKOK METROPOLITAN REGULATIONS FOR THE BUSINESS DISTRICTIONAL TO HEALTH, B.E. 2530 (1987).

1/ : DISEASE-CAUSING BACTERIA IS NOT DETECTED.

(MISS CHAWEEVAN BOONLA)
LABORATORY SUPERVISOR

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ANALYSIS REPORT

CUSTOMER NAME : BL HUA COMPANY LIMITED
ADDRESS : 899/1, 899/2, 899/4 MITRAPART ROAD NAI MUEANG MUEANG NAKHON RATCHASIMA NAKHON RATCHASIMA 30000
CONTACT INFORMATION : TEL : 0 2233 8989-98 e-mail : kj-qc@kasemkij.com
SAMPLING SOURCE : KANTARY HOTEL KORAT
SAMPLE TYPE : WATER SAMPLE FROM SWIMMING POOL
SAMPLING DATE : DECEMBER 11, 2024
SAMPLING TIME : -
SAMPLING METHOD : -
SAMPLING BY : CUSTOMER
ANALYZED BY : MISS SUJIRA PRASERTSUKHO

RECEIVED DATE : DECEMBER 12, 2024
ANALYTICAL DATE : DECEMBER 12-19, 2024
ISSUE DATE : DECEMBER 25, 2024
REPORT NO. : 2024-U121356
WORK NO. : 2024-011306
ANALYSIS NO. : T24BD237-0001

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			SWIMMING POOL (DEEP ZONE) T24BD237-0001		
MICROBIOLOGY					
COLIFORM BACTERIA ^b	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: PART 9221B AND C)	< 1.1	< 10	1.1
<i>E. coli</i> ^b	/100 mL	FLUOROGENIC SUBSTRATE TEST (SM: PART 9221D AND F)	NOT DETECTED	NOT DETECTED	-
<i>Pseudomonas aeruginosa</i> ^c	/100 mL	MEMBRANE FILTER TECHNIQUE (ISO 16266)	NOT DETECTED	1/	-
SAMPLE CONDITION					
WATER'S COLOUR/TURBID SEDIMENT			COLOURLESS/CLEAR -		

^a : ISO/IEC 17025 ACCREDITED BY THAI INDUSTRIAL STANDARDS INSTITUTE (TISI)

^b : ISO/IEC 17025 ACCREDITED BY DEPARTMENT OF SCIENCE SERVICE (DSS)

^c : VERIFIED BY OWN LABORATORY QUALITY SYSTEM, BUT STILL NOT ACCREDITED

SM : STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 24th EDITION, 2023.

REGULATORY STANDARD : BANGKOK METROPOLITAN REGULATIONS FOR THE BUSINESS DISTRIMENTAL TO HEALTH, B.E. 2530 (1987).

1/ : DISEASE-CAUSING BACTERIA IS NOT DETECTED.

(MISS CHAWEEVAN BOONLA)
LABORATORY SUPERVISOR

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CONTACT INFORMATION : TEL : 0 2233 8989-98 e-mail : kj-qc@kasemkij.com
SAMPLING SOURCE : KANTARY HOTEL KORAT
SAMPLE TYPE : WATER SAMPLE FROM SWIMMING POOL
SAMPLING DATE : DECEMBER 11, 2024
SAMPLING TIME : -
SAMPLING METHOD : -
SAMPLING BY : CUSTOMER
ANALYZED BY : MISS JITSAMON NGAMKANA
RECEIVED DATE : DECEMBER 12, 2024
ANALYTICAL DATE : DECEMBER 12-17, 2024
ISSUE DATE : DECEMBER 25, 2024
REPORT NO. : 2024-U121357
WORK NO. : 2024-011306
ANALYSIS NO. : T24BD237-0001

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD
			SWIMMING POOL (DEEP ZONE) T24BD237-0001	
MICROBIOLOGY				
Staphylococcus aureus	/100 mL	STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER. APHA, AWWA, WEF. 24th EDITION, 2023. PART 9213 B.	NOT DETECTED	1/
SAMPLE CONDITION				
WATER'S COLOUR/TURBID SEDIMENT			COLOURLESS/CLEAR	

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REGULATORY STANDARD : BANGKOK METROPOLITAN REGULATIONS FOR THE BUSINESS DISTRIENTAL TO HEALTH, B.E. 2530 (1987).

1/ : DISEASE-CAUSING BACTERIA IS NOT DETECTED.

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