

ภาคผนวก ก

ผลวิเคราะห์คุณภาพน้ำทิ้ง

โครงการโรงแรมแคนทารี โคราช

ประจำเดือน กันยายน 2565

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 28, 2022
SAMPLING TIME : -
SAMPLING METHOD : -
SAMPLING BY : CUSTOMER
ANALYZED BY : MISS AMONRAT PUTTALEE

RECEIVED DATE : SEPTEMBER 29, 2022
ANALYTICAL DATE : SEPTEMBER 29 - OCTOBER 6, 2022
REPORT NO. : 2022-U087329
WORK NO. : 2022-007076
ANALYSIS NO. : T22AT311-0001

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			EFFLUENT (KOR 1) T22AT311-0001		
pH ^a	-	ELECTROMETRIC METHOD (SM: 4500-H ⁺ B)	6.5 (25°C)	5-9	-
BIOCHEMICAL OXYGEN DEMAND ^{a c}	mg/L	AZIDE MODIFICATION METHOD (SM: 4500-O C AND 5210 B)	ND	≤ 20	2.0
SUSPENDED SOLIDS ^{a d}	mg/L	SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: 2540 D)	ND	≤ 30	5.0
TOTAL DISSOLVED SOLIDS ^b	mg/L	IN-HOUSE METHOD: UAE.TP.WAO.007 (TOTAL DISSOLVED SOLIDS DRIED AT 103-105 °C); SM 2540 C	448	500*	25
SETTLABLE SOLIDS ^c	mL/L	IMHOFF CONE (SM: 2540 F)	< 0.1	≤ 0.5	0.1
SULPHIDE ^b	mg/L	IODOMETRIC METHOD (SM: 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: 4500-Norg C	6.8	≤ 35	1.5
FAT, OIL AND GREASE ^a	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: 5520 B)	ND	≤ 20	3



PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			EFFLUENT (KOR 1) T22AT311-0001		
MICROBIOLOGY					
COLIFORM BACTERIA ^b	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: 9221 B)	330	-	1.8
FAECAL COLIFORM BACTERIA ^b	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: 9221 E)	240	-	1.8
SAMPLE CONDITION					
WATER'S COLOUR/TURBID			YELLOW/TURBID		
SEDIMENT			BROWN		

^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, 23RD EDITION, 2017.

SM : STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 23RD EDITION, 2017.

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 122,
PART 125 D, DATED DECEMBER 29, 2005.

500[°] : PERMITTED EXCESS VALUE TO TOTAL DISSOLVED SOLIDS OF ACTUAL TAP WATER USED
(TOTAL DISSOLVED SOLIDS STANDARD VALUE OF TAP WATER QUALITY IS 1,000 mg/L).

ND : NON-DETECTABLE.

^A : SAMPLING ON OCTOBER 27, 2022, ANALYSIS NO. T22AV428-0001 (ANALYTICAL DATE : OCTOBER 28 - NOVEMBER 4, 2022)

THE REASON FOR ISSUING THE NEW REPORT IS SUBSTITUTE RESULT

SUBSTITUTED REPORT FOR REPORT NO. 2022-U079527, DATED OCTOBER 10, 2022.

Piyapat S.

(MRS PIYAPAT SUTTAMANUTWONG)
LABORATORY SUPERVISOR

NOVEMBER 14, 2022

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 28, 2022
SAMPLING TIME : -
SAMPLING METHOD : -
SAMPLING BY : CUSTOMER
ANALYZED BY : MISS PORNPIMOL WAENTHONG

RECEIVED DATE : SEPTEMBER 29, 2022
ANALYTICAL DATE : SEPTEMBER 29 - OCTOBER 4, 2022
REPORT NO. : 2022-U079528
WORK NO. : 2022-007076
ANALYSIS NO. : T22AT311-0002

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			WATER SUPPLY T22AT311-0002		
TOTAL DISSOLVED SOLIDS ^b	mg/L	TOTAL DISSOLVED SOLIDS DRIED AT 180 °C (SM: 2540 C)	194	≤ 600	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, 23rd EDITION, 2017.

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

OCTOBER 10, 2022

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• REPORTED ANALYSIS REFERS TO SUBMITTED SAMPLE ONLY.

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ผลวิเคราะห์คุณภาพน้ำสระว่ายนํ้า

โครงการโรงแรมแคนทารี โคราช

ประจำเดือน กันยายนและธันวาคม 2565

(ส่วนลึก)

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 28, 2022
SAMPLING TIME : -
SAMPLING METHOD : -
SAMPLING BY : CUSTOMER
ANALYZED BY : MISS ITSARIYAPORN BUATIB

RECEIVED DATE : SEPTEMBER 29, 2022
ANALYTICAL DATE : SEPTEMBER 29 - OCTOBER 6, 2022
REPORT NO. : 2022-U079824
WORK NO. : 2022-007078
ANALYSIS NO. : T22AT313-0001

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			SWIMMING POOL (DEEP ZONE) T22AT313-0001		
MICROBIOLOGY					
COLIFORM BACTERIA ^b	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: 9221 B)	< 1.1	< 10	1.1
<i>E. coli</i> ^b	/100 mL	FLUOROGENIC SUBSTRATE TEST (SM: 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 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, 23rd EDITION, 2017.

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

OCTOBER 12, 2022



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 28, 2022
SAMPLING TIME : -
SAMPLING METHOD : -
SAMPLING BY : CUSTOMER
ANALYZED BY : MISS ITSARIYAPORN BUATIB

RECEIVED DATE : SEPTEMBER 29, 2022
ANALYTICAL DATE : SEPTEMBER 29 - OCTOBER 5, 2022
REPORT NO. : 2022-U079825
WORK NO. : 2022-007078
ANALYSIS NO. : T22AT313-0001

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			SWIMMING POOL (DEEP ZONE) T22AT313-0001		
MICROBIOLOGY					
<i>Staphylococcus aureus</i> ^a	/100 mL	MEMBRANE FILTER TECHNIQUE (SM: 9213 B)	NOT DETECTED	1/	-
SAMPLE CONDITION					
WATER'S COLOUR/TURBID			COLOURLESS/CLEAR		
SEDIMENT			-		

^a : ISO/IEC 17025 ACCREDITED BY DEPARTMENT OF MEDICAL SCIENCE (DMSC)

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

SM : STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 23rd EDITION, 2017.

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

OCTOBER 12, 2022



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 : DECEMBER 12, 2022
SAMPLING TIME : -
SAMPLING METHOD : -
SAMPLING BY : CUSTOMER
ANALYZED BY : MISS ITSARIYAPORN BUATIB

RECEIVED DATE : DECEMBER 13, 2022
ANALYTICAL DATE : DECEMBER 13-19, 2022
REPORT NO. : 2022-U102884
WORK NO. : 2022-009603
ANALYSIS NO. : T22AY787-0001

ANALYZED BY : MISS T1 SAKITAPORN BOATIB

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			SWIMMING POOL (DEEP ZONE) T22AY787-0001		
MICROBIOLOGY					
COLIFORM BACTERIA ^b	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: 9221B)	< 1.1	< 10	1.1
<i>E. coli</i> ^b	/100 mL	FLUOROGENIC SUBSTRATE TEST (SM: 9221D AND F)	NOT DETECTED	NOT DETECTED	-
<i>Pseudomonas aeruginosa</i> ^c	/100 mL	MEMBRANE FILTER TECHNIQUE (ISO 16266)	NOT DETECTED	1/	-
SAMPLE CONDITION			COLOURLESS/CLEAR		
WATER'S COLOUR/TURBID					
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, 23rd EDITION, 2017.

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

DECEMBER 28, 2022

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- THIS ANALYSIS REPORT APPROVES ONLY FOR SUBMITTED SAMPLES.

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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 : DECEMBER 12, 2022
SAMPLING TIME : -
SAMPLING METHOD : -
SAMPLING BY : CUSTOMER
ANALYZED BY : MISS ITSARIYAPORN BUATTB

RECEIVED DATE : DECEMBER 13, 2022
ANALYTICAL DATE : DECEMBER 13-18, 2022
REPORT NO. : 2022-U102885
WORK NO. : 2022-009603
ANALYSIS NO. : T22AY787-0001

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			SWIMMING POOL (DEEP ZONE) T22AY787-0001		
MICROBIOLOGY					
<i>Staphylococcus aureus</i> #	/100 mL	MEMBRANE FILTER TECHNIQUE (SM: 9213 B)	NOT DETECTED	1/	-
SAMPLE CONDITION					
WATER'S COLOUR/TURBID			COLOURLESS/CLEAR		
SEDIMENT			-		

: ISO/IEC 17025 ACCREDITED BY DEPARTMENT OF MEDICAL SCIENCE (DMS)
* : VERIFIED BY OWN LABORATORY QUALITY SYSTEM, BUT STILL NOT ACCREDITED

SM : STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 23rd EDITION, 2017.
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

DECEMBER 28, 2022

