

รายงานผลการตรวจวัดคุณภาพน้ำทิ้ง
เดือนมกราคม พ.ศ.2565

ภาคผนวก ค
รายงานผลการตรวจวัดคุณภาพน้ำทิ้ง

ANALYSIS REPORT

PROJECT NAME : การตรวจวัดคุณภาพสิ่งแวดล้อม และการตรวจสอบการปฏิบัติตามมาตรฐานการป้องกันและแก้ไขผลกระทบสิ่งแวดล้อม
โครงการ GRANDE CENTRE POINT HOTEL RATCHADAMRI ประจำปี 2565

CUSTOMER NAME : L&H HOTEL MANAGEMENT COMPANY LIMITED

ADDRESS : 153/2 SOI MAHATLEK LUANG 1 RATCHADAMRI ROAD LUMPHINI PATHUM WAN BANGKOK 10330

CONTACT INFORMATION : TEL : 08 1926 3779 e-mail : pornchai.k@gcphotels.com

SAMPLING SOURCE : GRANDE CENTRE POINT HOTEL RATCHADAMRI

SAMPLE TYPE : WASTEWATER

SAMPLING DATE : JANUARY 5, 2022

SAMPLING TIME : 15:10 HOUR

SAMPLING METHOD : GRAB, GRAB AND STERILE TECHNIQUE

SAMPLING BY : MR WEERAYUT MOKKAEW

ANALYZED BY : MISS AMONRAT PUTTALEE

RECEIVED DATE : JANUARY 6, 2022

ANALYTICAL DATE : JANUARY 6-11, 2022

REPORT NO. : 2022-U004035

WORK NO. : 2021-006040

ANALYSIS NO. : T22AA119-0001

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT
			บอปรับสภาพน้ำ T22AA119-0001	
pH ^a	-	ELECTROMETRIC METHOD AT SITE (SM:4500-H ⁺ B)	7.0 (30°C)	-
BIOCHEMICAL OXYGEN DEMAND ^c	mg/L	AZIDE MODIFICATION METHOD (SM: 4500-O C AND 5210 B)	152	2.0
SUSPENDED SOLIDS ^a	mg/L	SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: 2540 D)	557	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	367	25
TOTAL KJELDAHL NITROGEN ^b	mg/L	IN-HOUSE METHOD: UAE.TP.WAS.001 (KJELDAHL METHOD); SM: 4500-Norg C	51.5	1.5
SULPHIDE ^c	mg/L	IODOMETRIC METHOD (SM: 4500-S ²⁻ F)	7.00	0.50
FAT, OIL AND GREASE ^a	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: 5520 B)	6	3
MICROBIOLOGY				
COLIFORM BACTERIA ^b	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: 9221 B)	>160,000	1.8
SAMPLE CONDITION				
WATER'S COLOUR/TURBID SEDIMENT			GREY/TURBID BLACK	

^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.

Piyapat S.

(MRS PIYAPAT SUTTAMANUTWONG)
LABORATORY SUPERVISOR

JANUARY 25, 2022



ANALYSIS REPORT

PROJECT NAME : การตรวจวัดคุณภาพสิ่งแวดล้อม และการตรวจสอบการปฏิบัติตามมาตรฐานการป้องกันและแก้ไขผลกระทบสิ่งแวดล้อม
โครงการ GRANDE CENTRE POINT HOTEL RATCHADAMRI ประจำปี 2565

CUSTOMER NAME : L&H HOTEL MANAGEMENT COMPANY LIMITED

ADDRESS : 153/2 SOI MAHATLEK LUANG 1 RATCHADAMRI ROAD LUMPHINI PATHUM WAN BANGKOK 10330

CONTACT INFORMATION : TEL : 08 1926 3779 e-mail : pornchai.k@gcphotels.com

SAMPLING SOURCE : GRANDE CENTRE POINT HOTEL RATCHADAMRI

SAMPLE TYPE : EFFLUENT

SAMPLING DATE : JANUARY 5, 2022

SAMPLING TIME : 15:05 HOUR

SAMPLING METHOD : GRAB, GRAB AND STERILE TECHNIQUE

SAMPLING BY : MR WEERAYUT MOKKAEW

ANALYZED BY : MISS AMONRAT PUTTALEE

RECEIVED DATE : JANUARY 6, 2022

ANALYTICAL DATE : JANUARY 6-11, 2022

REPORT NO. : 2022-U004036

WORK NO. : 2021-006040

ANALYSIS NO. : T22AA119-0002

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			ปอสูบนน้ำทั้ง T22AA119-0002		
pH ^a	-	ELECTROMETRIC METHOD AT SITE (SM:4500-H ⁺ B)	6.8 (29°C)	5-9	-
BIOCHEMICAL OXYGEN DEMAND ^c	mg/L	AZIDE MODIFICATION METHOD (SM: 4500-O C AND 5210 B)	16.1	≤ 20	2.0
SUSPENDED SOLIDS ^a	mg/L	SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: 2540 D)	16.3	≤ 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	368	500*	25
SETTLEABLE SOLIDS ^c	mL/L	IMHOFF CONE (SM: 2540 F)	< 0.1	≤ 0.5	0.1
SULPHIDE ^c	mg/L	IODOMETRIC METHOD (SM: 4500-S ²⁻ F)	ND	≤ 1.0	0.50
TOTAL KJELDAHL NITROGEN ^b	mg/L	IN-HOUSE METHOD: UAE.TP.WAS.001 (KJELDAHL METHOD); SM: 4500-Norg C	12.8	≤ 35	1.5
FAT, OIL AND GREASE ^a	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: 5520 B)	ND	≤ 20	3
RESIDUAL CHLORINE ^c	mg/L Cl ₂	MODIFIED DPD COLOURIMETRIC METHOD (AT SITE)	0.1	-	0.1



PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			ปอสูบน้ำทิ้ง T22AA119-0002		
MICROBIOLOGY					
COLIFORM BACTERIA ^b	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: 9221B)	>160,000	-	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, 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.

Piyapat S.

(MRS PIYAPAT SUTTAMANUTWONG)
LABORATORY SUPERVISOR

JANUARY 25, 2022

ANALYSIS REPORT

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โครงการ GRANDE CENTRE POINT HOTEL RATCHADAMRI ประจำปี 2565
CUSTOMER NAME : L&H HOTEL MANAGEMENT COMPANY LIMITED
ADDRESS : 153/2 SOI MAHATLEK LUANG 1 RATCHADAMRI ROAD LUMPHINI PATHUM WAN BANGKOK 10330
CONTACT INFORMATION : TEL : 08 1926 3779 e-mail : pornchai.k@gcphotels.com
SAMPLING SOURCE : GRANDE CENTRE POINT HOTEL RATCHADAMRI
SAMPLE TYPE : WATER SAMPLE FROM SWIMMING POOL
SAMPLING DATE : JANUARY 5, 2022
SAMPLING TIME : 15:00 HOUR
SAMPLING METHOD ^c : STERILE TECHNIQUE
SAMPLING BY ^c : MR WEERAYUT MOKKAEW
ANALYZED BY : MISS ITSARIYAPORN BUATIB

RECEIVED DATE : JANUARY 6, 2022
ANALYTICAL DATE : JANUARY 6-9, 2022
REPORT NO. : 2022-U004037
WORK NO. : 2021-006040
ANALYSIS NO. : T22AA119-0003

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			SWIMMING POOL T22AA119-0003		
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)	ABSENCE	ABSENCE	-
STANDARD PLATE COUNT ^b	CFU/mL	STANDARD PLATE COUNT (SM: 9215 B)	6.7x10 ²	-	-
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 DISTRIEMENTAL TO HEALTH, B.E. 2530 (1987).



(MISS CHAWEEWAN BOONLA)
LABORATORY SUPERVISOR

JANUARY 25, 2022



ANALYSIS REPORT

PROJECT NAME : การตรวจวัดคุณภาพสิ่งแวดล้อม และการตรวจสอบการปฏิบัติตามมาตรฐานการป้องกันและแก้ไขผลกระทบสิ่งแวดล้อม
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CONTACT INFORMATION : TEL : 08 1926 3779 e-mail : pornchai.k@gcphotels.com

SAMPLING SOURCE : GRANDE CENTRE POINT HOTEL RATCHADAMRI

SAMPLE TYPE : WATER SUPPLY

SAMPLING DATE : JANUARY 5, 2022

SAMPLING TIME : 14:50 HOUR

SAMPLING METHOD : STERILE TECHNIQUE

SAMPLING BY : MR WEERAYUT MOKKAEW

ANALYZED BY : MR PITTAPAN LAEKOOD

RECEIVED DATE : JANUARY 6, 2022

ANALYTICAL DATE : JANUARY 6-13, 2022

REPORT NO. : 2022-U004038

WORK NO. : 2021-006040

ANALYSIS NO. : T22AA119-0004

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT
			ROOF TANK T22AA119-0004
MICROBIOLOGY			
Legionella spp.	CFU/L	ISO 11731:2017-05 (E)	NOT DETECTED
SAMPLE CONDITION			COLOURLESS/CLEAR -
WATER'S COLOUR/TURBID			
SEDIMENT			



(MISS CHAWEEWAN BOONLA)
LABORATORY SUPERVISOR

JANUARY 25, 2022



ANALYSIS REPORT

PROJECT NAME : การตรวจวัดคุณภาพสิ่งแวดล้อม และการตรวจสอบการปฏิบัติตามมาตรฐานการป้องกันและแก้ไขผลกระทบสิ่งแวดล้อม
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CUSTOMER NAME : L&H HOTEL MANAGEMENT COMPANY LIMITED

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CONTACT INFORMATION : TEL : 08 1926 3779 e-mail : pornchai.k@gcphotels.com

SAMPLING SOURCE : GRANDE CENTRE POINT HOTEL RATCHADAMRI

SAMPLE TYPE : WATER SUPPLY **RECEIVED DATE** : JANUARY 6, 2022

SAMPLING DATE : JANUARY 5, 2022 **ANALYTICAL DATE** : JANUARY 6-13, 2022

SAMPLING TIME : 14:55 HOUR **REPORT NO.** : 2022-U004039

SAMPLING METHOD : STERILE TECHNIQUE **WORK NO.** : 2021-006040

SAMPLING BY : MR WEERAYUT MOKKAEW **ANALYSIS NO.** : T22AA119-0005

ANALYZED BY : MR PITTAPAN LAEKOOD

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT
			ห้องพักแขก NO.1018 T22AA119-0005
MICROBIOLOGY			
Legionella spp.	CFU/L	ISO 11731:2017-05 (E)	NOT DETECTED
SAMPLE CONDITION WATER'S COLOUR/TURBID SEDIMENT			YELLOW/CLEAR -



(MISS CHAWEEWAN BOONLA)
LABORATORY SUPERVISOR

JANUARY 25, 2022

