

ภาคผนวก ค

ใบรายงานผลการติดตามตรวจสอบ



ANALYSIS REPORT

PROJECT NAME : การตรวจวัดคุณภาพสิ่งแวดล้อม และการตรวจสอบการปฏิบัติตามมาตรฐานการป้องกันและแก้ไขผลกระทบสิ่งแวดล้อม
โครงการ GRANDE CENTRE POINT HOTEL PLOENCHIT ประจำปี 2566

CUSTOMER NAME : L&H PROPERTY COMPANY LIMITED

ADDRESS : 100 WIRELESS ROAD LUMPHINI PATHUM WAN BANGKOK 10330

CONTACT INFORMATION : TEL : 08 9939 6326 e-mail : teerayuth.k@gcphotels.com

SAMPLING SOURCE : WASTEWATER TREATMENT PLANT OF GRANDE CENTRE POINT HOTEL PLOENCHIT

SAMPLE TYPE : WASTEWATER **RECEIVED DATE** : JANUARY 11, 2023

SAMPLING DATE : JANUARY 11, 2023 **ANALYTICAL DATE** : JANUARY 11-19, 2023

SAMPLING TIME : 1/ **REPORT NO.** : 2023-U005771

SAMPLING METHOD : GRAB, GRAB AND STERILE TECHNIQUE **WORK NO.** : 2022-008319

SAMPLING BY : MR WEERAYUT MOKKAEW **ANALYSIS NO.** : T23AA489-0001 - T23AA489-0002

ANALYZED BY : MISS KALLAYA SOMPHONG

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT		REGULATORY STANDARD	DETECTION LIMIT
			1 16:20 HOUR 1/ T23AA489-0001	2 16:15 HOUR 1/ T23AA489-0002		
pH ^a	-	ELECTROMETRIC METHOD AT SITE (SM:4500-H ⁺ B)	7.0 (27°C)	7.2 (27°C)	5-9	-
BIOCHEMICAL OXYGEN DEMAND ^a	mg/L	MEMBRANE ELECTRODE METHOD (SM: 4500-O ₂ G AND 5210 B)	124	6.2	≤ 20	2.0
SUSPENDED SOLIDS ^a	mg/L	SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: 2540 D)	563	11.8	≤ 30	5.0
SULPHIDE ^b	mg/L	IODOMETRIC METHOD (SM: 4500-S ²⁻ F)	< 0.50	< 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	48.5	7.7	≤ 35	1.5
FAT, OIL AND GREASE ^a	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: 5520 B)	ND	ND	≤ 20	3
RESIDUAL CHLORINE ^c	mg/L Cl ₂	MODIFIED DPD COLOURIMETRIC METHOD (AT SITE)	ND	ND	-	0.1



PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT		REGULATORY STANDARD	DETECTION LIMIT
			1 16:20 HOUR 1/ T23AA489-0001	2 16:15 HOUR 1/ T23AA489-0002		
MICROBIOLOGY						
COLIFORM BACTERIA ^b	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: 9221 B)	>160,000	24,000	-	1.8
SAMPLE CONDITION						
WATER'S COLOUR/TURBID			YELLOW/TURBID	YELLOW/TURBID		
SEDIMENT			BROWN	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.

RESULT 1 : ถึงปริมณภาพ (ระบบบำนัด)

RESULT 2 : ถึงน้ำใส (ระบบบำนัด)

REGULATORY STANDARD : RANGE OR MAXIMUM PERMITTED VALUE FOR BUILDING EFFLUENT STANDARDS CLASS B, NOTIFICATION OF THE
MINISTRY OF RESOURCES AND ENVIRONMENT, PUBLISHED IN THE ROYAL GOVERNMENT GAZETTE, VOL 122,
PART 125 D, DATED DECEMBER 29, 2005 AND VOL 139 SPECIAL PART 171 D, DATED JULY 21, 2022.

ND : NON-DETECTABLE.



(MISS BENJAWAN VIRIYOTHAI)
LABORATORY SUPERVISOR

JANUARY 26, 2023

ANALYSIS REPORT

PROJECT NAME : การตรวจวัดคุณภาพสิ่งแวดล้อม และการตรวจสอบการปฏิบัติตามมาตรการป้องกันและแก้ไขผลกระทบสิ่งแวดล้อม
โครงการ GRANDE CENTRE POINT HOTEL PLOENCHIT ประจำปี 2566

CUSTOMER NAME : L&H PROPERTY COMPANY LIMITED

ADDRESS : 100 WIRELESS ROAD LUMPHINI PATHUM WAN BANGKOK 10330

CONTACT INFORMATION : TEL : 08 9939 6326 e-mail : teerayuth.k@gcphotels.com

SAMPLING SOURCE : WASTEWATER TREATMENT PLANT OF GRANDE CENTRE POINT HOTEL PLOENCHIT

SAMPLE TYPE : WASTEWATER

SAMPLING DATE : FEBRUARY 1, 2023

SAMPLING TIME : 1/

SAMPLING METHOD : GRAB, GRAB AND STERILE TECHNIQUE

SAMPLING BY : MR WEERAYUT MOKKAEW

ANALYZED BY : MISS KALLAYA SOMPHONG

RECEIVED DATE : FEBRUARY 1, 2023

ANALYTICAL DATE : FEBRUARY 1-7, 2023

REPORT NO. : 2023-U009795

WORK NO. : 2022-008319

ANALYSIS NO. : T23AB673-0001 - T23AB673-0002

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT		REGULATORY STANDARD	DETECTION LIMIT
			1 15:40 HOUR 1/ T23AB673-0001	2 15:35 HOUR 1/ T23AB673-0002		
pH ^a	-	ELECTROMETRIC METHOD AT SITE (SM:4500-H ⁺ B)	6.8 (26°C)	7.2 (26°C)	5-9	-
BIOCHEMICAL OXYGEN DEMAND ^a	mg/L	MEMBRANE ELECTRODE METHOD (SM: 4500-O G AND 5210 B)	100	18.4	≤ 20	2.0
SUSPENDED SOLIDS ^a	mg/L	SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: 2540 D)	564	17.7	≤ 30	5.0
SULPHIDE ^b	mg/L	IODOMETRIC METHOD (SM: 4500-S ²⁻ F)	< 0.50	< 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	44.1	7.1	≤ 35	1.5
FAT, OIL AND GREASE ^a	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: 5520 B)	ND	ND	≤ 20	3
RESIDUAL CHLORINE ^c	mg/L Cl ₂	MODIFIED DPD COLOURIMETRIC METHOD (AT SITE)	ND	ND	-	0.1



PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT		REGULATORY STANDARD	DETECTION LIMIT
			1 15:40 HOUR 1/ T23AB673-0001	2 15:35 HOUR 1/ T23AB673-0002		
MICROBIOLOGY						
COLIFORM BACTERIA ^b	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: 9221 B)	>160,000	1,300	-	1.8
SAMPLE CONDITION						
WATER'S COLOUR/TURBID SEDIMENT			YELLOW/TURBID BROWN	YELLOW/TURBID 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.

RESULT 1 : ถึงปรีภสภพ (รบนบนำบัด)

RESULT 2 : ถึงน้ำใส (รบนบนำบัด)

REGULATORY STANDARD : RANGE OR MAXIMUM PERMITTED VALUE FOR BUILDING EFFLUENT STANDARDS CLASS B, NOTIFICATION OF THE
MINISTRY OF RESOURCES AND ENVIRONMENT, PUBLISHED IN THE ROYAL GOVERNMENT GAZETTE, VOL 122,
PART 125 D, DATED DECEMBER 29, 2005 AND VOL 139 SPECIAL PART 171 D, DATED JULY 21, 2022.

ND : NON-DETECTABLE.

[REDACTED]

(MISS BENJAWAN VIRIYOTHA)
LABORATORY SUPERVISOR

FEBRUARY 14, 2023

ANALYSIS REPORT

PROJECT NAME	: การตรวจวัดคุณภาพสิ่งแวดล้อม และการตรวจสอบการปฏิบัติตามมาตรการป้องกันและแก้ไขผลกระทบสิ่งแวดล้อม โครงการ GRANDE CENTRE POINT HOTEL PLOENCHIT ประจำปี 2566		
CUSTOMER NAME	: L&H PROPERTY COMPANY LIMITED		
ADDRESS	: 100 WIRELESS ROAD LUMPHINI PATHUM WAN BANGKOK 10330		
CONTACT INFORMATION	: TEL : 08 9939 6326 e-mail : teerayuth.k@gcphotels.com		
SAMPLING SOURCE	: WASTEWATER TREATMENT PLANT OF GRANDE CENTRE POINT HOTEL PLOENCHIT		
SAMPLE TYPE	: WASTEWATER	RECEIVED DATE	: MARCH 2, 2023
SAMPLING DATE	: MARCH 2, 2023	ANALYTICAL DATE	: MARCH 2-12, 2023
SAMPLING TIME	: 1/	REPORT NO.	: 2023-U018001
SAMPLING METHOD	: GRAB, GRAB AND STERILE TECHNIQUE	WORK NO.	: 2022-008319
SAMPLING BY	: MR WEERAYUT MOKKAEW	ANALYSIS NO.	: T23AD715-0001 - T23AD715-0002
ANALYZED BY	: MISS KALLAYA SOMPHONG		

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT		REGULATORY STANDARD	DETECTION LIMIT
			1 15:50 HOUR 1/ T23AD715-0001	2 15:45 HOUR 1/ T23AD715-0002		
pH ^a	-	ELECTROMETRIC METHOD AT SITE (SM: PART 4500-H ⁺ B)	6.6 (26°C)	7.0 (26°C)	5-9	-
BIOCHEMICAL OXYGEN DEMAND ^a	mg/L	MEMBRANE ELECTRODE METHOD (SM: PART 4500-O ₂ G AND PART 5210 B)	33.0	8.8	≤ 20	2.0
SUSPENDED SOLIDS ^a	mg/L	SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: PART 2540 D)	169	35.4	≤ 30	5.0
SULPHIDE ^b	mg/L	IODOMETRIC METHOD (SM: PART 4500-S ₂ -F)	< 0.50	< 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	11.7	< LOQ	≤ 35	1.5
FAT, OIL AND GREASE ^c	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: PART 5520 B)	ND	ND	≤ 20	3
RESIDUAL CHLORINE ^c	mg/L Cl ₂	MODIFIED DPD COLOURIMETRIC METHOD (AT SITE)	ND	ND	-	0.1



PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT		REGULATORY STANDARD	DETECTION LIMIT
			1 15:50 HOUR 1/ T23AD715-0001	2 15:45 HOUR 1/ T23AD715-0002		
MICROBIOLOGY						
COLIFORM BACTERIA ^b	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: PART 9221B)	17,000	7,900	-	1.8
SAMPLE CONDITION						
WATER'S COLOUR/TURBID SEDIMENT			YELLOW/TURBID BROWN	YELLOW/TURBID 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.

RESULT 1 : ถึงปริมณภาพ (ระบบบำนัด)

RESULT 2 : ถึงน้ำใส (ระบบบำนัด)

REGULATORY STANDARD : RANGE OR MAXIMUM PERMITTED VALUE FOR BUILDING EFFLUENT STANDARDS CLASS B, NOTIFICATION OF THE
MINISTRY OF RESOURCES AND ENVIRONMENT, PUBLISHED IN THE ROYAL GOVERNMENT GAZETTE, VOL 122,
PART 125 D, DATED DECEMBER 29, 2005 AND VOL 139 SPECIAL PART 171 D, DATED JULY 21, 2022.

ND : NON-DETECTABLE.

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

[REDACTED]

(MISS BENJAWAN VIRIYOTHAI)
LABORATORY SUPERVISOR

MARCH 16, 2023

ANALYSIS REPORT

PROJECT NAME : การตรวจวัดคุณภาพสิ่งแวดล้อม และการตรวจสอบการปฏิบัติตามมาตรการป้องกันและแก้ไขผลกระทบสิ่งแวดล้อม
โครงการ GRANDE CENTRE POINT HOTEL PLOENCHIT ประจำปี 2566

CUSTOMER NAME : L&H PROPERTY COMPANY LIMITED

ADDRESS : 100 WIRELESS ROAD LUMPHINI PATHUM WAN BANGKOK 10330

CONTACT INFORMATION : TEL : 0 2055 9000, 08 8353 0900 e-mail : manorod.k@gcphotels.com

SAMPLING SOURCE : WASTEWATER TREATMENT PLANT OF GRANDE CENTRE POINT HOTEL PLOENCHIT

SAMPLE TYPE : EFFLUENT **RECEIVED DATE** : MARCH 24, 2023

SAMPLING DATE : MARCH 24, 2023 **ANALYTICAL DATE** : MARCH 24-29, 2023

SAMPLING TIME : 13:05 HOUR **REPORT NO.** : 2023-U023752

SAMPLING METHOD ^c : GRAB **WORK NO.** : 2023-002490

SAMPLING BY ^c : MR SUKSAN BOONLEANG **ANALYSIS NO.** : T23AF358-0001

ANALYZED BY : MISS NAPAPORN KHUNNOKKHUM

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			ถังพักน้ำใส (ระบบบำบัด) T23AF358-0001		
TOTAL SUSPENDED SOLIDS ^a	mg/L	TOTAL SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: PART 2540 D)	13.3	≤ 30	5.0
SAMPLE CONDITION WATER'S COLOUR/TURBID SEDIMENT			YELLOW/CLEAR 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

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 B, NOTIFICATION OF THE MINISTRY OF RESOURCES AND ENVIRONMENT, PUBLISHED IN THE ROYAL GOVERNMENT GAZETTE, VOL 122, PART 125 D, DATED DECEMBER 29, 2005 AND VOL 139 SPECIAL PART 171 D, DATED JULY 21, 2022.



(MISS SIRIPHAPORN MUANRAE)
LABORATORY SUPERVISOR

APRIL 3, 2023



ANALYSIS REPORT

PROJECT NAME : การตรวจวัดคุณภาพสิ่งแวดล้อม และการตรวจสอบการปฏิบัติตามมาตรการป้องกันและแก้ไขผลกระทบสิ่งแวดล้อม
โครงการ GRANDE CENTRE POINT HOTEL PLOENCHIT ประจำปี 2566

CUSTOMER NAME : L&H PROPERTY COMPANY LIMITED

ADDRESS : 100 WIRELESS ROAD LUMPHINI PATHUM WAN BANGKOK 10330

CONTACT INFORMATION : TEL : 08 9939 6326 e-mail : teerayuth.k@gcphotels.com

SAMPLING SOURCE : WASTEWATER TREATMENT PLANT OF GRANDE CENTRE POINT HOTEL PLOENCHIT

SAMPLE TYPE : WASTEWATER **RECEIVED DATE** : APRIL 7, 2023

SAMPLING DATE : APRIL 7, 2023 **ANALYTICAL DATE** : APRIL 7-21, 2023

SAMPLING TIME : 1/ **REPORT NO.** : 2023-U029482

SAMPLING METHOD : GRAB, GRAB AND STERILE TECHNIQUE **WORK NO.** : 2022-008319

SAMPLING BY : MR PHATSAWUT THOSAKOON **ANALYSIS NO.** : T23AG301-0001 - T23AG301-0002

ANALYZED BY : MISS KALLAYA SOMPHONG

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT		REGULATORY STANDARD	DETECTION LIMIT
			1 10:55 HOUR 1/ T23AG301-0001	2 11:05 HOUR 1/ T23AG301-0002		
pH ^a	-	ELECTROMETRIC METHOD AT SITE (SM: PART 4500-H ⁺ B)	6.6 (29°C)	6.5 (29°C)	5-9	-
BIOCHEMICAL OXYGEN DEMAND ^c	mg/L	MEMBRANE ELECTRODE METHOD (SM: PART 5210 B AND PART 4500-O G)	6.4	ND	≤ 20	2.0
SUSPENDED SOLIDS ^c	mg/L	SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: PART 2540 D)	6.3	ND	≤ 30	5.0
SULPHIDE ^b	mg/L	IODOMETRIC METHOD (SM: PART 4500-S ²⁻ F)	< 0.50	< 0.50	≤ 1.0	0.50
TOTAL KJELDAHL NITROGEN ^c	mg/L	IN-HOUSE METHOD: UAE.TP.WAS.001 (KJELDAHL METHOD); SM: PART 4500-Norg C	< LOQ	ND	≤ 35	1.5
FAT, OIL AND GREASE ^c	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: PART 5520 B)	ND	ND	≤ 20	3
RESIDUAL CHLORINE ^c	mg/L Cl ₂	MODIFIED DPD COLOURIMETRIC METHOD (AT SITE)	ND	ND	-	0.1



PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT		REGULATORY STANDARD	DETECTION LIMIT
			1 10:55 HOUR 1/ T23AG301-0001	2 11:05 HOUR 1/ T23AG301-0002		
MICROBIOLOGY						
COLIFORM BACTERIA ^b	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: PART 9221B)	11,000	160,000	-	1.8
SAMPLE CONDITION						
WATER'S COLOUR/TURBID SEDIMENT			YELLOW/CLEAR BROWN	YELLOW/CLEAR 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.

RESULT 1 : ถึงปรับสภาพ (ระบอบน้ำดิบ)

RESULT 2 : ถึงน้ำใส (ระบอบน้ำดิบ)

REGULATORY STANDARD : RANGE OR MAXIMUM PERMITTED VALUE FOR BUILDING EFFLUENT STANDARDS CLASS B, NOTIFICATION OF THE
MINISTRY OF RESOURCES AND ENVIRONMENT, PUBLISHED IN THE ROYAL GOVERNMENT GAZETTE, VOL 122,
PART 125 D, DATED DECEMBER 29, 2005 AND VOL 139 SPECIAL PART 171 D, DATED JULY 21, 2022.

ND : NON-DETECTABLE.

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

(MRS PIYAPAT SUTTAMANUTWONG)
LABORATORY SUPERVISOR

APRIL 24, 2023

ANALYSIS REPORT

PROJECT NAME : การตรวจวัดคุณภาพสิ่งแวดล้อม และการตรวจสอบการปฏิบัติตามมาตรฐานการป้องกันและแก้ไขผลกระทบสิ่งแวดล้อม
โครงการ GRANDE CENTRE POINT HOTEL PLOENCHIT ประจำปี 2566

CUSTOMER NAME : L&H PROPERTY COMPANY LIMITED

ADDRESS : 100 WIRELESS ROAD LUMPHINI PATHUM WAN BANGKOK 10330

CONTACT INFORMATION : TEL : 08 9939 6326 e-mail : teerayuth.k@gcphotels.com

SAMPLING SOURCE : WASTEWATER TREATMENT PLANT OF GRANDE CENTRE POINT HOTEL PLOENCHIT

SAMPLE TYPE : WASTEWATER **RECEIVED DATE** : MAY 3, 2023

SAMPLING DATE : MAY 3, 2023 **ANALYTICAL DATE** : MAY 3-16, 2023

SAMPLING TIME : 1/ **REPORT NO.** : 2023-U036886

SAMPLING METHOD : GRAB, GRAB AND STERILE TECHNIQUE **WORK NO.** : 2022-008319

SAMPLING BY : MR SUKSAN BOONLEANG **ANALYSIS NO.** : T23AH900-0001 - T23AH900-0002

ANALYZED BY : MISS KALLAYA SOMPHONG

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT		REGULATORY STANDARD	DETECTION LIMIT
			1 15:15 HOUR 1/ T23AH900-0001	2 15:10 HOUR 1/ T23AH900-0002		
pH ^a	-	ELECTROMETRIC METHOD AT SITE (SM: PART 4500-H ⁺ B)	6.1 (30°C)	7.5 (31°C)	5-9	-
BIOCHEMICAL OXYGEN DEMAND ^a	mg/L	MEMBRANE ELECTRODE METHOD (SM: PART 5210 B AND PART 4500-O G)	138	2.8	≤ 20	2.0
SUSPENDED SOLIDS ^a	mg/L	SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: PART 2540 D)	321	7.2	≤ 30	5.0
SULPHIDE ^b	mg/L	IODOMETRIC METHOD (SM: PART 4500-S ²⁻ F)	< 0.50	< 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	37.9	9.6	≤ 35	1.5
FAT, OIL AND GREASE ^c	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: PART 5520 B)	4	ND	≤ 20	3
RESIDUAL CHLORINE ^c	mg/L Cl ₂	MODIFIED DPD COLOURIMETRIC METHOD (AT SITE)	ND	ND	-	0.1



PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT		REGULATORY STANDARD	DETECTION LIMIT
			1 15:15 HOUR 1/ T23AH900-0001	2 15:10 HOUR 1/ T23AH900-0002		
MICROBIOLOGY						
COLIFORM BACTERIA ^b	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: PART 9221 B)	160,000	170	-	1.8
SAMPLE CONDITION						
WATER'S COLOUR/TURBID SEDIMENT			YELLOW/TURBID BROWN	YELLOW/CLEAR 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.

RESULT 1 : ดังปรีณสภพ (รณบณนำบัด)

RESULT 2 : ดังน้ำใส (รณบณนำบัด)

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 AND VOL 139 SPECIAL PART 171 D, DATED JULY 21, 2022.

ND : NON-DETECTABLE.

[REDACTED]

(MRS PIYAPAT SUTTAMANUTWONG)
LABORATORY SUPERVISOR

MAY 22, 2023

ANALYSIS REPORT

PROJECT NAME : การตรวจวัดคุณภาพสิ่งแวดล้อม และการตรวจสอบการปฏิบัติตามมาตรการป้องกันและแก้ไขผลกระทบสิ่งแวดล้อม
โครงการ GRANDE CENTRE POINT HOTEL PLOENCHIT ประจำปี 2566

CUSTOMER NAME : L&H PROPERTY COMPANY LIMITED

ADDRESS : 100 WIRELESS ROAD LUMPHINI PATHUM WAN BANGKOK 10330

CONTACT INFORMATION : TEL : 08 9939 6326 e-mail : teerayuth.k@gcphotels.com

SAMPLING SOURCE : WASTEWATER TREATMENT PLANT OF GRANDE CENTRE POINT HOTEL PLOENCHIT

SAMPLE TYPE : WASTEWATER **RECEIVED DATE** : JUNE 8, 2023

SAMPLING DATE : JUNE 7, 2023 **ANALYTICAL DATE** : JUNE 8-20, 2023

SAMPLING TIME : 1/ **REPORT NO.** : 2023-U049615

SAMPLING METHOD : GRAB, GRAB AND STERILE TECHNIQUE **WORK NO.** : 2022-008319

SAMPLING BY : MR SUKSAN BOONLEANG **ANALYSIS NO.** : T23AK575-0001 - T23AK575-0002

ANALYZED BY : MISS KALLAYA SOMPHONG

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT		REGULATORY STANDARD	DETECTION LIMIT
			1 15:05 HOUR 1/ T23AK575-0001	2 15:00 HOUR 1/ T23AK575-0002		
pH ^a	-	ELECTROMETRIC METHOD AT SITE (SM: PART 4500-H ⁺ B)	7.1 (30°C)	7.0 (30°C)	5-9	-
BIOCHEMICAL OXYGEN DEMAND ^a	mg/L	MEMBRANE ELECTRODE METHOD (SM: PART 5210 B AND PART 4500-O G)	63.9	6.2	≤ 20	2.0
SUSPENDED SOLIDS ^a	mg/L	SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: PART 2540 D)	70.6	ND	≤ 30	5.0
SULPHIDE ^b	mg/L	IODOMETRIC METHOD (SM: PART 4500-S ²⁻ F)	< 0.50	< 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	12.2	< LOQ	≤ 35	1.5
FAT, OIL AND GREASE ^c	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: PART 5520 B)	ND	ND	≤ 20	3
RESIDUAL CHLORINE ^c	mg/L Cl ₂	MODIFIED DPD COLOURIMETRIC METHOD (AT SITE)	ND	ND	-	0.1



PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT		REGULATORY STANDARD	DETECTION LIMIT
			1 15:05 HOUR 1/ T23AK575-0001	2 15:00 HOUR 1/ T23AK575-0002		
MICROBIOLOGY						
COLIFORM BACTERIA ^b	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: PART 9221 B)	>160,000	4,900	-	1.8
SAMPLE CONDITION						
WATER'S COLOUR/TURBID SEDIMENT			YELLOW/TURBID BROWN	YELLOW/CLEAR 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.

RESULT 1 : สังเกตสภาพ (ระบบบำบัด)

RESULT 2 : สังเกตน้ำใส (ระบบบำบัด)

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 AND VOL 139 SPECIAL PART 171 D, DATED JULY 21, 2022.

ND : NON-DETECTABLE.

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

(MRS PIYAPAT SUTTAMANUTWONG)
LABORATORY SUPERVISOR

JUNE 21, 2023