

ผลวิเคราะห์คุณภาพน้ำทิ้ง อาคาร A

ประจำเดือน กรกฎาคม 2567



United Analyst and Engineering Consultant Co., Ltd.

3 Soi Udomsuk 41, Sukhumvit Road, Bangchak, Phrakhanong, Bangkok 10260

Tel.0 2763 2828 Fax 0 2763 2800 www.uaec consultant.com E-mail: uae@uaec consultant.com



NSC-TISI-TIS 17025
TESTING 0207



TESTING
No. 0063

ANALYSIS REPORT

CUSTOMER NAME : KASEMKIJ COMPANY LIMITED (KANTARY HILLS HOTEL CHIANG MAI)
ADDRESS : 44, 44 / 1-4 NIMMANHEMIN ROAD SUTHEP MUEANG CHIANG MAI CHIANG MAI 50200
CONTACT INFORMATION : TEL : 0 2233 8989-98 e-mail : kj-qc@kasemkij.com
SAMPLING SOURCE : WASTEWATER TREATMENT PLANT OF KANTARY HILLS HOTEL CHIANGMAI
SAMPLE TYPE : WASTEWATER
SAMPLING DATE : JULY 10, 2024
SAMPLING TIME : -
SAMPLING METHOD : -
SAMPLING BY : CUSTOMER
ANALYZED BY : MISS ARIYA THARAROM
RECEIVED DATE : JULY 12, 2024
ANALYTICAL DATE : JULY 12-18, 2024
ISSUE DATE : JULY 23, 2024
REPORT NO. : 2024-U067216
WORK NO. : 2024-006306
ANALYSIS NO. : T24AP859-0001 - T24AP859-0002

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT		REGULATORY STANDARD	DETECTION LIMIT
			1 T24AP859-0001	2 T24AP859-0002		
pH ^c	-	ELECTROMETRIC METHOD (SM: PART 4500 -H ⁺ B)	6.4 (25°C)	6.8 (25°C)	5-9	-
BIOCHEMICAL OXYGEN DEMAND ^c	mg/L	AZIDE MODIFICATION METHOD (SM: PART 5210 B AND PART 4500-O C)	760	13.5	≤ 30	2.0
SUSPENDED SOLIDS ^a	mg/L	SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: PART 2540 D)	2,113	10.3	≤ 40	5.0
TOTAL KJELDAHL NITROGEN ^b	mg/L	IN-HOUSE METHOD: UAE.TP.WAS.001 (KJELDAHL METHOD); SM: PART 4500-Norg C	64.5	8.4	≤ 35	1.5
FAT, OIL AND GREASE ^c	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: PART 5520 B)	216	ND	≤ 20	3
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, 24TH EDITION, 2023.

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

RESULT 1 : INFLUENT (BUILDING A)

RESULT 2 : EFFLUENT (BUILDING A)

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.

ND : NOT DETECTED.

Piyapat S.

(MRS PIYAPAT SUTTAMANUTWONG)
LABORATORY SUPERVISOR

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ISO 14001:2015 CERTIFIED
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CUSTOMER NAME : KASEMKIJ COMPANY LIMITED (KANTARY HILLS HOTEL CHIANG MAI)
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CONTACT INFORMATION : TEL : 0 2233 8989-98 e-mail : kj-qc@kasemkij.com
SAMPLING SOURCE : WASTEWATER TREATMENT PLANT OF KANTARY HILLS HOTEL CHIANGMAI
SAMPLE TYPE : WASTEWATER
SAMPLING DATE : AUGUST 14, 2024
SAMPLING TIME : -
SAMPLING METHOD : -
SAMPLING BY : CUSTOMER
ANALYZED BY : MISS NAPAPORN KHUNNOKKHUM
RECEIVED DATE : AUGUST 15, 2024
ANALYTICAL DATE : AUGUST 15-22, 2024
ISSUE DATE : AUGUST 23, 2024
REPORT NO. : 2024-U077489
WORK NO. : 2024-007358
ANALYSIS NO. : T24AS490-0001 - T24AS490-0002

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT		REGULATORY STANDARD	DETECTION LIMIT
			1 T24AS490-0001	2 T24AS490-0002		
pH ^a	-	ELECTROMETRIC METHOD (SM: PART 4500 -H+ B)	7.0 (25°C)	6.9 (25°C)	5-9	-
BIOCHEMICAL OXYGEN DEMAND ^c	mg/L	AZIDE MODIFICATION METHOD (SM: PART 5210 B AND PART 4500-O C)	160	7.9	≤ 30	2.0
SUSPENDED SOLIDS ^a	mg/L	SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: PART 2540 D)	222	22.7	≤ 40	5.0
TOTAL KJELDAHL NITROGEN ^b	mg/L	IN-HOUSE METHOD: UAE.TP.WAS.001 (KJELDAHL METHOD); SM: PART 4500-Norg C	63.3	9.0	≤ 35	1.5
FAT, OIL AND GREASE ^c	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: PART 5520 B)	34	ND	≤ 20	3
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, 24th EDITION, 2023.

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

RESULT 1 : INFLUENT (BUILDING A)

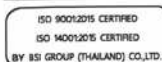
RESULT 2 : EFFLUENT (BUILDING A)

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.

ND : NOT DETECTED.

Piyapat S.

(MRS PIYAPAT SUTTAMANUTWONG)
LABORATORY SUPERVISOR



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ANALYSIS REPORT

CUSTOMER NAME : KASEMKIJ COMPANY LIMITED (KANTARY HILLS HOTEL CHIANG MAI)
ADDRESS : 44, 44 / 1-4 NIMMANHEMIN ROAD SUTHEP MUEANG CHIANG MAI CHIANG MAI 50200
CONTACT INFORMATION : TEL : 0 2233 8989-98 e-mail : kj-qc@kasemkij.com
SAMPLING SOURCE : WASTEWATER TREATMENT PLANT OF KANTARY HILLS HOTEL CHIANGMAI
SAMPLE TYPE : WASTEWATER
SAMPLING DATE : SEPTEMBER 16, 2024
SAMPLING TIME : -
SAMPLING METHOD : -
SAMPLING BY : CUSTOMER
ANALYZED BY : MISS NAPAPORN KHUNNOKKHAM
RECEIVED DATE : SEPTEMBER 18, 2024
ANALYTICAL DATE : SEPTEMBER 18-26, 2024
ISSUE DATE : SEPTEMBER 26, 2024
REPORT NO. : 2024-U089722
WORK NO. : 2024-008280
ANALYSIS NO. : T24AV703-0005 - T24AV703-0006

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT		REGULATORY STANDARD	DETECTION LIMIT
			1 T24AV703-0005	2 T24AV703-0006		
pH ^a	-	ELECTROMETRIC METHOD (SM: PART 4500 -H ⁺ B)	7.0 (25°C)	6.8 (25°C)	5.5-9.0	-
BIOCHEMICAL OXYGEN DEMAND ^c	mg/L	5-DAY BOD TEST, AZIDE MODIFICATION METHOD (SM: PART 5210 B AND PART 4500-O C)	192	< 2.0	≤ 30	2.0
TOTAL SUSPENDED SOLIDS ^c	mg/L	DRIED FROM 103 TO 105 °C (SM: PART 2540 D)	468	ND	≤ 40	5.0
TOTAL KJELDAHL NITROGEN ^c	mg/L	SEMI-MICRO-KJELDAHL METHOD (SM: PART 4500-Norg C)	96.0	< LOQ	≤ 35	1.5
OIL AND GREASE ^c	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: PART 5520 B)	21	ND	≤ 20	3
SAMPLE CONDITION WATER'S COLOUR/TURBID SEDIMENT			YELLOW/TURBID BROWN	YELLOW/TURBID BROWN		

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^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.

RESULT 1 : INFLUENT (BUILDING C)

RESULT 2 : EFFLUENT (BUILDING C)

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. 141, PART 233 D, DATED AUGUST 27, 2024.

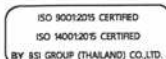
BIOCHEMICAL OXYGEN DEMAND (T24AV703-0006) : ADDITION OF NITRIFICATION INHIBITION (TCMP) FOLLOW TO THE SM: 5210B,5(e).

ND : NOT DETECTED.

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

Piyapat S.

(MRS PIYAPAT SUTTAMANUTWONG)
LABORATORY SUPERVISOR



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NSC-TISI-TIS 17025
TESTING 0207

ANALYSIS REPORT

CUSTOMER NAME : KASEMKIJ COMPANY LIMITED (KANTARY HILLS HOTEL CHIANG MAI)
ADDRESS : 44, 44 / 1-4 NIMMANHEMIN ROAD SUTHEP MUEANG CHIANG MAI CHIANG MAI 50200
CONTACT INFORMATION : TEL : 0 2233 8989-98 e-mail : kj-qc@kasemkij.com
SAMPLING SOURCE : WASTEWATER TREATMENT PLANT OF KANTARY HILLS HOTEL CHIANGMAI
SAMPLE TYPE : WASTEWATER
SAMPLING DATE : OCTOBER 28, 2024
SAMPLING TIME : -
SAMPLING METHOD : -
SAMPLING BY : CUSTOMER
ANALYZED BY : MISS NAPAPORN KHUNNOKKHUM

RECEIVED DATE : OCTOBER 30, 2024
ANALYTICAL DATE : OCTOBER 30 - NOVEMBER 5, 2024
ISSUE DATE : NOVEMBER 7, 2024
REPORT NO. : 2024-U103978
WORK NO. : 2024-009298
ANALYSIS NO. : T24AZ418-0001 - T24AZ418-0002

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT		REGULATORY STANDARD	DETECTION LIMIT	LIMIT OF QUANTITATION (LOQ)
			1 T24AZ418-0001	2 T24AZ418-0002			
pH ^a	-	ELECTROMETRIC METHOD (SM: PART 4500-H ⁺ B)	6.8 (25°C)	6.8 (25°C)	5.5-9.0	-	-
BIOCHEMICAL OXYGEN DEMAND ^c	mg/L	5-DAY BOD TEST, AZIDE MODIFICATION METHOD (SM: PART 5210 B AND PART 4500-O C)	196	15.6	≤ 30	-	2.0
TOTAL SUSPENDED SOLIDS ^a	mg/L	DRIED FROM 103 TO 105 °C (SM: PART 2540 D)	58.0	12.8	≤ 40	5.0	-
TOTAL KJELDAHL NITROGEN ^c	mg/L	SEMI-MICRO-KJELDAHL METHOD (SM: PART 4500-Norg C)	37.7	6.6	≤ 35	1.5	5.0
OIL AND GREASE ^c	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: PART 5520 B)	27	ND	≤ 20	-	3
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

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

RESULT 1 : INFLUENT (BUILDING A)

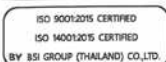
RESULT 2 : EFFLUENT (BUILDING A)

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. 141, PART 233 D, DATED AUGUST 27, 2024.

ND : NOT DETECTED.

Piyapat S.

(MRS PIYAPAT SUTTAMANUTWONG)
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No. 0063

ANALYSIS REPORT

CUSTOMER NAME : KASEMKIJ COMPANY LIMITED (KANTARY HILLS HOTEL CHIANG MAI)
ADDRESS : 44, 44 / 1-4 NIMMANHEMIN ROAD SUTHEP MUEANG CHIANG MAI CHIANG MAI 50200
CONTACT INFORMATION : TEL : 0 2233 8989-98 e-mail : kj-qc@kasemkij.com
SAMPLING SOURCE : WASTEWATER TREATMENT PLANT OF KANTARY HILLS HOTEL CHIANGMAI
SAMPLE TYPE : WASTEWATER
SAMPLING DATE : NOVEMBER 11, 2024
SAMPLING TIME : -
SAMPLING METHOD : -
SAMPLING BY : CUSTOMER
ANALYZED BY : MISS NAPAPORN KHUNNOKKHUM
RECEIVED DATE : NOVEMBER 14, 2024
ANALYTICAL DATE : NOVEMBER 14-21, 2024
ISSUE DATE : NOVEMBER 25, 2024
REPORT NO. : 2024-U109824
WORK NO. : 2024-010314
ANALYSIS NO. : T24BA761-0001 - T24BA761-0002

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT		REGULATORY STANDARD	DETECTION LIMIT	LIMIT OF QUANTITATION (LOQ)
			1 T24BA761-0001	2 T24BA761-0002			
pH ^a	-	ELECTROMETRIC METHOD (SM: PART 4500-H ⁺ B)	6.7 (25°C)	6.9 (25°C)	5.5-9.0	-	-
BIOCHEMICAL OXYGEN DEMAND ^c	mg/L	AZIDE MODIFICATION METHOD (SM: PART 5210 B AND PART 4500-O C)	441	63	≤ 30	-	2.0
TOTAL SUSPENDED SOLIDS ^a	mg/L	TOTAL SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: PART 2540 D)	181	7.4	≤ 40	-	5.0
TOTAL KJELDAHL NITROGEN ^b	mg/L	IN-HOUSE METHOD: UAE.TP.WAS.001 (KJELDAHL METHOD); SM: PART 4500-Norg C	68.2	< LOQ	≤ 35	1.5	5.0
OIL AND GREASE ^a	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: PART 5520 B)	61	< 3	≤ 20	-	3
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, 24th EDITION, 2023.

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

RESULT 1 : INFLUENT (BUILDING A)

RESULT 2 : EFFLUENT (BUILDING A)

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 141, PART 233 D, DATED AUGUST 27, 2024.

BIOCHEMICAL OXYGEN DEMAND (T24BA761-0002) : ADDITION OF NITRIFICATION INHIBITION (TCMP) FOLLOW TO THE SM: 5210B,5(e).

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

Piyapat S.

(MRS PIYAPAT SUTTAMANUTWONG)
LABORATORY SUPERVISOR

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TESTING 0207



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No. 0063

ANALYSIS REPORT

CUSTOMER NAME	: KASEMKIJ COMPANY LIMITED (KANTARY HILLS HOTEL CHIANG MAI)	RECEIVED DATE	: DECEMBER 19, 2024
ADDRESS	: 44, 44 / 1-4 NIMMANHEMIN ROAD SUTHEP MUEANG CHIANG MAI CHIANG MAI 50200	ANALYTICAL DATE	: DECEMBER 19-26, 2024
CONTACT INFORMATION	: TEL : 0 2233 8989-98 e-mail : kj-qc@kasemkij.com	ISSUE DATE	: JANUARY 2, 2025
SAMPLING SOURCE	: WASTEWATER TREATMENT PLANT OF KANTARY HILLS HOTEL CHIANGMAI	REPORT NO.	: 2024-U123388
SAMPLE TYPE	: WASTEWATER	WORK NO.	: 2024-011304
SAMPLING DATE	: DECEMBER 16, 2024	ANALYSIS NO.	: T24BD825-0001 - T24BD825-0002
SAMPLING TIME	: -		
SAMPLING METHOD	: -		
SAMPLING BY	: CUSTOMER		
ANALYZED BY	: MISS NAPAPORN KHUNNOKKHUM		

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT		REGULATORY STANDARD	DETECTION LIMIT	LIMIT OF QUANTITATION (LOQ)
			1 T24BD825-0001	2 T24BD825-0002			
pH ^a	-	ELECTROMETRIC METHOD (SM: PART 4500-H ⁺ B)	6.9 (25°C)	7.1 (25°C)	5.5-9.0	-	-
BIOCHEMICAL OXYGEN DEMAND ^c	mg/L	AZIDE MODIFICATION METHOD (SM: PART 5210 B AND PART 4500-O C)	904	19.7	≤ 30	-	2.0
TOTAL SUSPENDED SOLIDS ^a	mg/L	TOTAL SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: PART 2540 D)	590	7.2	≤ 40	-	5.0
TOTAL KJELDAHL NITROGEN ^b	mg/L	IN-HOUSE METHOD: UAE.TP.WAS.001 (KJELDAHL METHOD); SM: PART 4500-Norg C	39.8	13.6	≤ 35	1.5	5.0
OIL AND GREASE ^a	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: PART 5520 B)	114	< 3	≤ 20	-	3
SAMPLE CONDITION							
WATER'S COLOUR/TURBID			YELLOW/TURBID	YELLOW/TURBID			
SEDIMENT			BROWN	BROWN			

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

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

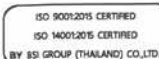
RESULT 1 : INFLUENT (BUILDING A)

RESULT 2 : EFFLUENT (BUILDING A)

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 141, PART 233 D, DATED AUGUST 27, 2024.

Piyapat S.

(MRS PIYAPAT SUTTAMANUTWONG)
LABORATORY SUPERVISOR



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CUSTOMER NAME : KASEMKIJ COMPANY LIMITED (KANTARY HILLS HOTEL CHIANG MAI)
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CONTACT INFORMATION : TEL : 0 2233 8989-98 e-mail : kj-qc@kasemkij.com
SAMPLING SOURCE : WASTEWATER TREATMENT PLANT OF KANTARY HILLS HOTEL CHIANGMAI
SAMPLE TYPE : WASTEWATER
SAMPLING DATE : JULY 10, 2024
SAMPLING TIME : -
SAMPLING METHOD : -
SAMPLING BY : CUSTOMER
ANALYZED BY : MISS ARIYA THARAROM
RECEIVED DATE : JULY 12, 2024
ANALYTICAL DATE : JULY 12-18, 2024
ISSUE DATE : JULY 23, 2024
REPORT NO. : 2024-U067217
WORK NO. : 2024-006306
ANALYSIS NO. : T24AP859-0003 - T24AP859-0004

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT		REGULATORY STANDARD	DETECTION LIMIT
			1 T24AP859-0003	2 T24AP859-0004		
pH ^c	-	ELECTROMETRIC METHOD (SM: PART 4500 -H ⁺ B)	7.0 (25°C)	6.1 (25°C)	5-9	-
BIOCHEMICAL OXYGEN DEMAND ^c	mg/L	AZIDE MODIFICATION METHOD (SM: PART 5210 B AND PART 4500-O C)	287	6.6	≤ 30	2.0
SUSPENDED SOLIDS ^a	mg/L	SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: PART 2540 D)	419	10.3	≤ 40	5.0
TOTAL KJELDAHL NITROGEN ^b	mg/L	IN-HOUSE METHOD: UAE.TP.WAS.001 (KJELDAHL METHOD); SM: PART 4500-Norg C	169	11.1	≤ 35	1.5
FAT, OIL AND GREASE ^c	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: PART 5520 B)	23	ND	≤ 20	3
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, 24th EDITION, 2023.

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

RESULT 1 : INFLUENT (BUILDING B)

RESULT 2 : EFFLUENT (BUILDING B)

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.

ND : NOT DETECTED.

Piyapat S.

(MRS PIYAPAT SUTTAMANUTWONG)
LABORATORY SUPERVISOR

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Tel.0 2763 2828 Fax 0 2763 2800 www.uaeconsultant.com E-mail: uae@uaeconsultant.com



NSC-TISI-TIS 17025
TESTING 0207



TESTING
No. 0063

ANALYSIS REPORT

CUSTOMER NAME : KASEMKIJ COMPANY LIMITED (KANTARY HILLS HOTEL CHIANG MAI)
ADDRESS : 44, 44 / 1-4 NIMMANHEMIN ROAD SUTHEP MUEANG CHIANG MAI CHIANG MAI 50200
CONTACT INFORMATION : TEL : 0 2233 8989-98 e-mail : kj-qc@kasemkij.com
SAMPLING SOURCE : WASTEWATER TREATMENT PLANT OF KANTARY HILLS HOTEL CHIANGMAI
SAMPLE TYPE : WASTEWATER **RECEIVED DATE** : AUGUST 15, 2024
SAMPLING DATE : AUGUST 14, 2024 **ANALYTICAL DATE** : AUGUST 15-22, 2024
SAMPLING TIME : - **ISSUE DATE** : SEPTEMBER 26, 2024
SAMPLING METHOD : - **REPORT NO.** : 2024-U089450
SAMPLING BY : CUSTOMER **WORK NO.** : 2024-007358
ANALYZED BY : MISS NAPAPORN KHUNNOKKHUM **ANALYSIS NO.** : T24AS490-0003 - T24AS490-0004

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT		REGULATORY STANDARD	DETECTION LIMIT
			1 T24AS490-0003	2 T24AS490-0004		
pH ^a	-	ELECTROMETRIC METHOD (SM: PART 4500 -H ⁺ B)	6.4 (25°C)	7.0 (25°C) [^]	5-9	-
BIOCHEMICAL OXYGEN DEMAND ^c	mg/L	AZIDE MODIFICATION METHOD (SM: PART 5210 B AND PART 4500-O C)	196	< 2.0	≤ 30	2.0
SUSPENDED SOLIDS ^a	mg/L	SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: PART 2540 D)	652	110	≤ 40	5.0
TOTAL KJELDAHL NITROGEN ^b	mg/L	IN-HOUSE METHOD: UAE.TP.WAS.001 (KJELDAHL METHOD); SM: PART 4500-Norg C	60.6	5.0	≤ 35	1.5
FAT, OIL AND GREASE ^c	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: PART 5520 B)	9	ND	≤ 20	3
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, 24th EDITION, 2023.

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

RESULT 1 : INFLUENT (BUILDING B)

RESULT 2 : EFFLUENT (BUILDING B)

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.

ND : NOT DETECTED.

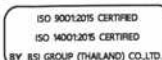
[^] : SAMPLING BY CUSTOMER ON SEPTEMBER 16, 2024, ANALYSIS NO. T24AV705-0001 (ANALYTICAL DATE: SEPTEMBER 18-20, 2024).

THE REASON FOR ISSUING THE NEW REPORT IS SUBSTITUTE RESULT.

SUBSTITUTED REPORT FOR REPORT NO. 2024-U077490, ISSUE DATE AUGUST 23, 2024.

Piyapat S.

(MRS PIYAPAT SUTTAMANUTWONG)
LABORATORY SUPERVISOR



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 Tel.0 2763 2828 Fax 0 2763 2800 www.uaconsultant.com E-mail: uae@uaconsultant.com



ANALYSIS REPORT

CUSTOMER NAME : KASEMKIJ COMPANY LIMITED (KANTARY HILLS HOTEL CHIANG MAI)
ADDRESS : 44, 44 / 1-4 NIMMANHEMIN ROAD SUTHEP MUEANG CHIANG MAI CHIANG MAI 50200
CONTACT INFORMATION : TEL : 0 2233 8989-98 e-mail : kj-qc@kasemkij.com
SAMPLING SOURCE : WASTEWATER TREATMENT PLANT OF KANTARY HILLS HOTEL CHIANGMAI
SAMPLE TYPE : WASTEWATER
SAMPLING DATE : SEPTEMBER 16, 2024
SAMPLING TIME : 00:00 HOUR
SAMPLING METHOD : -
SAMPLING BY : CUSTOMER
ANALYZED BY : MISS NAPAPORN KHUNNOKKHUM

RECEIVED DATE : SEPTEMBER 18, 2024
ANALYTICAL DATE : SEPTEMBER 18-26, 2024
ISSUE DATE : NOVEMBER 1, 2024
REPORT NO. : 2024-U102192
WORK NO. : 2024-008280
ANALYSIS NO. : T24AV703-0003 - T24AV703-0004

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT		REGULATORY STANDARD	DETECTION LIMIT
			1 T24AV703-0003	2 T24AV703-0004		
pH °	-	ELECTROMETRIC METHOD (SM: PART 4500 -H+ B)	6.1 (25°C)	6.4 (25°C)	5.5-9.0	-
BIOCHEMICAL OXYGEN DEMAND °	mg/L	AZIDE MODIFICATION METHOD (SM: PART 5210 B AND PART 4500-O C)	431	2.7	≤ 30	2.0
TOTAL SUSPENDED SOLIDS °	mg/L	SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: PART 2540 D)	477	14.1	≤ 40	5.0
TOTAL KJELDAHL NITROGEN °	mg/L	IN-HOUSE METHOD: UAE.TP.WAS.001 (KJELDAHL METHOD); SM: PART 4500-Norg C	125	7.8	≤ 35	1.5

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PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT		REGULATORY STANDARD	DETECTION LIMIT
			1 T24AV703-0003	2 T24AV703-0004		
OIL AND GREASE ^c	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: PART 5520 B)	20	ND	≤ 20	3
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, 24th EDITION, 2023.

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

RESULT 1 : INFLUENT (BUILDING B)

RESULT 2 : EFFLUENT (BUILDING B)

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.141, PART 233 D, DATED AUGUST 27, 2024.

BIOCHEMICAL OXYGEN DEMAND (T24AV703-0004) : ADDITION OF NITRIFICATION INHIBITION (TCMP) FOLLOW TO THE SM: 5210B.5(e).

ND : NOT DETECTED.

^A : PARAMETER ANALYSED OF THE EFFLUENT IS SAMPLING ON OCTOBER 24, 2024, ANALYSIS NO. T24AZ056-0001 (ANALYTICAL DATE : OCTOBER 25, 2024).

THE REASON FOR ISSUING THE NEW REPORT IS SUBSTITUTE RESULT.

SUBSTITUTED REPORT FOR REPORT NO. 2024-089721, ISSUE DATE SEPTEMBER 26, 2024.

Piyapat S.

(MRS PIYAPAT SUTTAMANUTWONG)
LABORATORY SUPERVISOR



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 Tel.0 2763 2828 Fax 0 2763 2800 www.uaec consultant.com E-mail: uae@uaec consultant.com



ANALYSIS REPORT

CUSTOMER NAME : KASEMKIJ COMPANY LIMITED (KANTARY HILLS HOTEL CHIANG MAI)
ADDRESS : 44, 44 / 1-4 NIMMANHEMIN ROAD SUTHEP MUEANG CHIANG MAI CHIANG MAI 50200
CONTACT INFORMATION : TEL : 0 2233 8989-98 e-mail : kj-qc@kasemkij.com
SAMPLING SOURCE : WASTEWATER TREATMENT PLANT OF KANTARY HILLS HOTEL CHIANGMAI
SAMPLE TYPE : WASTEWATER **RECEIVED DATE** : OCTOBER 30, 2024
SAMPLING DATE : OCTOBER 28, 2024 **ANALYTICAL DATE** : OCTOBER 30 - NOVEMBER 5, 2024
SAMPLING TIME : - **ISSUE DATE** : NOVEMBER 7, 2024
SAMPLING METHOD : - **REPORT NO.** : 2024-U103979
SAMPLING BY : CUSTOMER **WORK NO.** : 2024-009298
ANALYZED BY : MISS NAPAPORN KHUNNOKKHUM **ANALYSIS NO.** : T24AZ418-0003 - T24AZ418-0004

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT		REGULATORY STANDARD	DETECTION LIMIT	LIMIT OF QUANTITATION (LOQ)
			1 T24AZ418-0003	2 T24AZ418-0004			
pH ^a	-	ELECTROMETRIC METHOD (SM: PART 4500-H ⁺ B)	6.4 (25°C)	7.2 (25°C)	5.5-9.0	-	-
BIOCHEMICAL OXYGEN DEMAND ^c	mg/L	5-DAY BOD TEST, AZIDE MODIFICATION METHOD (SM: PART 5210 B AND PART 4500-O C)	622	2.2	≤ 30	-	2.0
TOTAL SUSPENDED SOLIDS ^a	mg/L	DRIED FROM 103 TO 105 °C (SM: PART 2540 D)	697	5.6	≤ 40	5.0	-
TOTAL KJELDAHL NITROGEN ^c	mg/L	SEMI-MICRO-KJELDAHL METHOD (SM: PART 4500-Norg C)	130	29.0	≤ 35	1.5	5.0
OIL AND GREASE ^c	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: PART 5520 B)	40	ND	≤ 20	-	3
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

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

RESULT 1 : INFLUENT (BUILDING B)

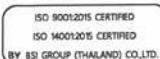
RESULT 2 : EFFLUENT (BUILDING B)

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 141, PART 233 D, DATED AUGUST 27, 2024.

ND : NOT DETECTED.

Piyapat S.

(MRS PIYAPAT SUTTAMANUTWONG)
 LABORATORY SUPERVISOR



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NSC - TISI - TIS 17025
TESTING 0207



TESTING
No. 0063

ANALYSIS REPORT

CUSTOMER NAME : KASEMKIJ COMPANY LIMITED (KANTARY HILLS HOTEL CHIANG MAI)
ADDRESS : 44, 44 / 1-4 NIMMANHEMIN ROAD SUTHEP MUEANG CHIANG MAI CHIANG MAI 50200
CONTACT INFORMATION : TEL : 0 2233 8989-98 e-mail : kj-qc@kasemkij.com
SAMPLING SOURCE : WASTEWATER TREATMENT PLANT OF KANTARY HILLS HOTEL CHIANGMAI
SAMPLE TYPE : WASTEWATER
SAMPLING DATE : NOVEMBER 11, 2024
SAMPLING TIME : -
SAMPLING METHOD : -
SAMPLING BY : CUSTOMER
ANALYZED BY : MISS NAPAPORN KHUNNOKKHUM
RECEIVED DATE : NOVEMBER 14, 2024
ANALYTICAL DATE : NOVEMBER 14-21, 2024
ISSUE DATE : NOVEMBER 25, 2024
REPORT NO. : 2024-U109825
WORK NO. : 2024-010314
ANALYSIS NO. : T24BA761-0003 - T24BA761-0004

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT		REGULATORY STANDARD	DETECTION LIMIT	LIMIT OF QUANTITATION (LOQ)
			1 T24BA761-0003	2 T24BA761-0004			
pH ^a	-	ELECTROMETRIC METHOD (SM: PART 4500-H ⁺ B)	6.6 (25°C)	6.4 (25°C)	5.5-9.0	-	-
BIOCHEMICAL OXYGEN DEMAND ^c	mg/L	AZIDE MODIFICATION METHOD (SM: PART 5210 B AND PART 4500-O C)	266	3.2	≤ 30	-	2.0
TOTAL SUSPENDED SOLIDS ^a	mg/L	TOTAL SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: PART 2540 D)	73.4	7.4	≤ 40	-	5.0
TOTAL KJELDAHL NITROGEN ^b	mg/L	IN-HOUSE METHOD: UAE.TP.WAS.001 (KJELDAHL METHOD); SM: PART 4500-Norg C	57.4	< LOQ	≤ 35	1.5	5.0
OIL AND GREASE ^a	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: PART 5520 B)	15	< 3	≤ 20	-	3
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, 24th EDITION, 2023.

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

RESULT 1 : INFLUENT (BUILDING B)

RESULT 2 : EFFLUENT (BUILDING B)

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. 141, PART 233 D, DATED AUGUST 27, 2024.

BIOCHEMICAL OXYGEN DEMAND (T24BA761-0004) : ADDITION OF NITRIFICATION INHIBITION (TCMP) FOLLOW TO THE SM: 5210B.5(e).

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

Piyapat S.

(MRS PIYAPAT SUTTAMANUTWONG)
LABORATORY SUPERVISOR

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NSC-TISI-TIS 17025
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TESTING
No. 0063

ANALYSIS REPORT

CUSTOMER NAME : KASEMKIJ COMPANY LIMITED (KANTARY HILLS HOTEL CHIANG MAI)
ADDRESS : 44, 44 / 1-4 NIMMANHEMIN ROAD SUTHEP MUEANG CHIANG MAI CHIANG MAI 50200
CONTACT INFORMATION : TEL : 0 2233 8989-98 e-mail : kj-qc@kasemkij.com
SAMPLING SOURCE : WASTEWATER TREATMENT PLANT OF KANTARY HILLS HOTEL CHIANGMAI
SAMPLE TYPE : WASTEWATER
SAMPLING DATE : DECEMBER 16, 2024
SAMPLING TIME : -
SAMPLING METHOD : -
SAMPLING BY : CUSTOMER
ANALYZED BY : MISS NAPORN KHUNNOKKHUM
RECEIVED DATE : DECEMBER 19, 2024
ANALYTICAL DATE : DECEMBER 19-26, 2024
ISSUE DATE : JANUARY 2, 2025
REPORT NO. : 2024-U123390
WORK NO. : 2024-011304
ANALYSIS NO. : T24BD825-0003 - T24BD825-0004

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT		REGULATORY STANDARD	DETECTION LIMIT	LIMIT OF QUANTITATION (LOQ)
			1 T24BD825-0003	2 T24BD825-0004			
pH ^a	-	ELECTROMETRIC METHOD (SM. PART 4500-H ⁺ B)	6.7 (25°C)	6.6 (25°C)	5.5-9.0	-	-
BIOCHEMICAL OXYGEN DEMAND ^c	mg/L	AZIDE MODIFICATION METHOD (SM. PART 5210 B AND PART 4500-O C)	392	2.6	≤ 30	-	2.0
TOTAL SUSPENDED SOLIDS ^a	mg/L	TOTAL SUSPENDED SOLIDS DRIED AT 103-105 °C (SM. PART 2540 D)	601	< 5.0	≤ 40	-	5.0
TOTAL KJELDAHL NITROGEN ^b	mg/L	IN-HOUSE METHOD: UAE TP WAS.001 (KJELDAHL METHOD); SM. PART 4500-Norg C	105	< LOQ	≤ 35	1.5	5.0
OIL AND GREASE ^a	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM. PART 5520 B)	30	< 3	≤ 20	-	3
SAMPLE CONDITION							
WATER'S COLOUR/TURBID			YELLOW/TURBID	YELLOW/CLEAR			
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

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

RESULT 1 : INFLUENT (BUILDING B)

RESULT 2 : EFFLUENT (BUILDING B)

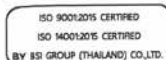
REGULATORY STANDARD : RANGE OR MAXIMUM PERMITTED VALUE FOR BUILDING EFFLUENT STANDARDS CLASS B, NOTIFICATION OF THE MINISTRY OF RESOURCES AND ENVIRONMENT, PUBLISHED IN THE ROYAL GOVERNMENT GAZETTE, VOL. 141, PART 233 D, DATED AUGUST 27, 2024.

BIOCHEMICAL OXYGEN DEMAND (T24BD825-0004) : ADDITION OF NITRIFICATION INHIBITION (TCMP) FOLLOW TO THE SM: 5210B.5(e).

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

Piyapat S.

(MRS PIYAPAT SUTTAMANUTWONG)
LABORATORY SUPERVISOR



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Tel.0 2763 2828 Fax 0 2763 2800 www.uaeconsultant.com E-mail: uae@uaeconsultant.com



TESTING
No.0063

ANALYSIS REPORT

CUSTOMER NAME : KASEMKIJ COMPANY LIMITED (KANTARY HILLS HOTEL CHIANG MAI)
ADDRESS : 44, 44 / 1-4 NIMMANHEMIN ROAD SUTHEP MUEANG CHIANG MAI CHIANG MAI 50200
CONTACT INFORMATION : TEL : 0 2233 8989-98 e-mail : kj-qc@kasemkij.com
SAMPLING SOURCE : WASTEWATER TREATMENT PLANT OF KANTARY HILLS HOTEL CHIANGMAI
SAMPLE TYPE : WASTEWATER
SAMPLING DATE : JULY 10, 2024
SAMPLING TIME : -
SAMPLING METHOD : -
SAMPLING BY : CUSTOMER
ANALYZED BY : MISS ARIYA THARAROM
RECEIVED DATE : JULY 12, 2024
ANALYTICAL DATE : JULY 12-18, 2024
ISSUE DATE : JULY 23, 2024
REPORT NO. : 2024-U067219
WORK NO. : 2024-006306
ANALYSIS NO. : T24AP859-0005 - T24AP859-0006

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT		REGULATORY STANDARD	DETECTION LIMIT
			1 T24AP859-0005	2 T24AP859-0006		
pH ^c	-	ELECTROMETRIC METHOD (SM: PART 4500 -H ⁺ B)	7.3 (25°C)	6.1 (25°C)	5-9	-
BIOCHEMICAL OXYGEN DEMAND ^c	mg/L	AZIDE MODIFICATION METHOD (SM: PART 5210 B AND PART 4500-O C)	125	< 2.0	≤ 30	2.0
SUSPENDED SOLIDS ^c	mg/L	SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: PART 2540 D)	138	ND	≤ 40	5.0
TOTAL KJELDAHL NITROGEN ^b	mg/L	IN-HOUSE METHOD: UAE.TP.WAS.001 (KJELDAHL METHOD); SM: PART 4500-Norg C	107	5.9	≤ 35	15
FAT, OIL AND GREASE ^c	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: PART 5520 B)	15	ND	≤ 20	3
SAMPLE CONDITION						
WATER'S COLOUR/TURBID			YELLOW/TURBID	YELLOW/CLEAR		
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, 24th EDITION, 2023.

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

RESULT 1 : INFLUENT (BUILDING C)

RESULT 2 : EFFLUENT (BUILDING C)

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.

ND : NOT DETECTED.

Piyapat S.

(MRS PIYAPAT SUTTAMANUTWONG)
LABORATORY SUPERVISOR

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NSC-TISI-TIS 17025
TESTING 0207



TESTING
No. 0063

ANALYSIS REPORT

CUSTOMER NAME : KASEMKIJ COMPANY LIMITED (KANTARY HILLS HOTEL CHIANG MAI)
ADDRESS : 44, 44 / 1-4 NIMMANHEMIN ROAD SUTHEP MUEANG CHIANG MAI CHIANG MAI 50200
CONTACT INFORMATION : TEL : 0 2233 8989-98 e-mail : kj-qc@kasemkij.com
SAMPLING SOURCE : WASTEWATER TREATMENT PLANT OF KANTARY HILLS HOTEL CHIANGMAI
SAMPLE TYPE : WASTEWATER
SAMPLING DATE : AUGUST 14, 2024
SAMPLING TIME : -
SAMPLING METHOD : -
SAMPLING BY : CUSTOMER
ANALYZED BY : MISS ARIYA THARAROM
RECEIVED DATE : AUGUST 15, 2024
ANALYTICAL DATE : AUGUST 15-22, 2024
ISSUE DATE : AUGUST 23, 2024
REPORT NO. : 2024-U077491
WORK NO. : 2024-007358
ANALYSIS NO. : T24AS490-0005 - T24AS490-0006

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT		REGULATORY STANDARD	DETECTION LIMIT
			1 T24AS490-0005	2 T24AS490-0006		
pH ^a	-	ELECTROMETRIC METHOD (SM: PART 4500 -H ⁺ B)	7.1 (25°C)	5.8 (25°C)	5-9	-
BIOCHEMICAL OXYGEN DEMAND ^c	mg/L	AZIDE MODIFICATION METHOD (SM: PART 5210 B AND PART 4500-O C)	86.4	< 2.0	≤ 30	2.0
SUSPENDED SOLIDS ^c	mg/L	SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: PART 2540 D)	159	ND	≤ 40	5.0
TOTAL KJELDAHL NITROGEN ^b	mg/L	IN-HOUSE METHOD: UAE.TP.WAS.001 (KJELDAHL METHOD); SM: PART 4500-Norg C	77.5	< LOQ	≤ 35	1.5
FAT, OIL AND GREASE ^c	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: PART 5520 B)	8	ND	≤ 20	3
SAMPLE CONDITION						
WATER'S COLOUR/TURBID			YELLOW/TURBID	YELLOW/CLEAR		
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, 24th EDITION, 2023.

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

RESULT 1 : INFLUENT (BUILDING C)

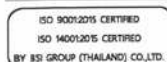
RESULT 2 : EFFLUENT (BUILDING C)

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.

ND : NOT DETECTED.

Piyapat S.

(MRS PIYAPAT SUTTAMANUTWONG)
LABORATORY SUPERVISOR



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ANALYSIS REPORT

CUSTOMER NAME : KASEMKIJ COMPANY LIMITED (KANTARY HILLS HOTEL CHIANG MAI)
ADDRESS : 44, 44 / 1-4 NIMMANHEMIN ROAD SUTHEP MUEANG CHIANG MAI CHIANG MAI 50200
CONTACT INFORMATION : TEL : 0 2233 8989-98 e-mail : kj-qc@kasemkij.com
SAMPLING SOURCE : WASTEWATER TREATMENT PLANT OF KANTARY HILLS HOTEL CHIANGMAI
SAMPLE TYPE : WASTEWATER
SAMPLING DATE : SEPTEMBER 16, 2024
SAMPLING TIME : -
SAMPLING METHOD : -
SAMPLING BY : CUSTOMER
ANALYZED BY : MISS NAPAPORN KHUNNOKKHUM
RECEIVED DATE : SEPTEMBER 18, 2024
ANALYTICAL DATE : SEPTEMBER 18-26, 2024
ISSUE DATE : SEPTEMBER 26, 2024
REPORT NO. : 2024-U089722
WORK NO. : 2024-008280
ANALYSIS NO. : T24AV703-0005 - T24AV703-0006

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT		REGULATORY STANDARD	DETECTION LIMIT
			1 T24AV703-0005	2 T24AV703-0006		
pH ^a	-	ELECTROMETRIC METHOD (SM: PART 4500 -H ⁺ B)	7.0 (25°C)	6.8 (25°C)	5.5-9.0	-
BIOCHEMICAL OXYGEN DEMAND ^c	mg/L	5-DAY BOD TEST, AZIDE MODIFICATION METHOD (SM: PART 5210 B AND PART 4500-O C)	192	< 2.0	≤ 30	2.0
TOTAL SUSPENDED SOLIDS ^c	mg/L	DRIED FROM 103 TO 105 °C (SM: PART 2540 D)	468	ND	≤ 40	5.0
TOTAL KJELDAHL NITROGEN ^c	mg/L	SEMI-MICRO-KJELDAHL METHOD (SM: PART 4500-Norg C)	96.0	< LOQ	≤ 35	1.5
OIL AND GREASE ^c	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: PART 5520 B)	21	ND	≤ 20	3
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

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

RESULT 1 : INFLUENT (BUILDING C)

RESULT 2 : EFFLUENT (BUILDING C)

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. 141, PART 233 D, DATED AUGUST 27, 2024.

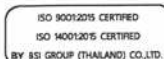
BIOCHEMICAL OXYGEN DEMAND (T24AV703-0006) : ADDITION OF NITRIFICATION INHIBITION (TCMP) FOLLOW TO THE SM: 5210B,5(e).

ND : NOT DETECTED.

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

Piyapat S.

(MRS PIYAPAT SUTTAMANUTWONG)
LABORATORY SUPERVISOR



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NSC-TISI-TIS 17025
TESTING 0207

ANALYSIS REPORT

CUSTOMER NAME : KASEMKIJ COMPANY LIMITED (KANTARY HILLS HOTEL CHIANG MAI)
ADDRESS : 44, 44 / 1-4 NIMMANHEMIN ROAD SUTHEP MUEANG CHIANG MAI CHIANG MAI 50200
CONTACT INFORMATION : TEL : 0 2233 8989-98 e-mail : kj-qc@kasemkij.com
SAMPLING SOURCE : WASTEWATER TREATMENT PLANT OF KANTARY HILLS HOTEL CHIANGMAI
SAMPLE TYPE : WASTEWATER
SAMPLING DATE : OCTOBER 28, 2024
SAMPLING TIME : -
SAMPLING METHOD : -
SAMPLING BY : CUSTOMER
ANALYZED BY : MISS NAPAPORN KHUNNOKKHUM

RECEIVED DATE : OCTOBER 30, 2024
ANALYTICAL DATE : OCTOBER 30 - NOVEMBER 5, 2024
ISSUE DATE : NOVEMBER 7, 2024
REPORT NO. : 2024-U103980
WORK NO. : 2024-009298
ANALYSIS NO. : T24AZ418-0005 - T24AZ418-0006

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT		REGULATORY STANDARD	DETECTION LIMIT	LIMIT OF QUANTITATION (LOQ)
			1 T24AZ418-0005	2 T24AZ418-0006			
pH ^a	-	ELECTROMETRIC METHOD (SM: PART 4500-H ⁺ B)	7.2 (25°C)	6.6 (25°C)	5.5-9.0	-	-
BIOCHEMICAL OXYGEN DEMAND ^c	mg/L	5-DAY BOD TEST, AZIDE MODIFICATION METHOD (SM: PART 5210 B AND PART 4500-O C)	133	< 2.0	≤ 30	-	2.0
TOTAL SUSPENDED SOLIDS ^c	mg/L	DRIED FROM 103 TO 105 °C (SM: PART 2540 D)	176	ND	≤ 40	5.0	-
TOTAL KJELDAHL NITROGEN ^c	mg/L	SEM-MICRO-KJELDAHL METHOD (SM: PART 4500-Norg C)	107	14.4	≤ 35	15	5.0
OIL AND GREASE ^c	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: PART 5520 B)	11	ND	≤ 20	-	3
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

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

RESULT 1 : INFLUENT (BUILDING C)

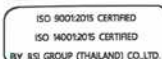
RESULT 2 : EFFLUENT (BUILDING C)

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. 141, PART 233 D, DATED AUGUST 27, 2024.

ND : NOT DETECTED.

Piyapat S.

(MRS PIYAPAT SUTTAMANUTWONG)
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NSC-TISI-TIS 17025
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TESTING
No. 0063

ANALYSIS REPORT

CUSTOMER NAME	: KASEMKIJ COMPANY LIMITED (KANTARY HILLS HOTEL CHIANG MAI)		
ADDRESS	: 44, 44 / 1-4 NIMMANHEMIN ROAD SUTHEP MUEANG CHIANG MAI CHIANG MAI 50200		
CONTACT INFORMATION	: TEL : 0 2233 8989-98 e-mail : kj-qc@kasemkij.com		
SAMPLING SOURCE	: WASTEWATER TREATMENT PLANT OF KANTARY HILLS HOTEL CHIANGMAI		
SAMPLE TYPE	: WASTEWATER	RECEIVED DATE	: NOVEMBER 14, 2024
SAMPLING DATE	: NOVEMBER 11, 2024	ANALYTICAL DATE	: NOVEMBER 14-21, 2024
SAMPLING TIME	: -	ISSUE DATE	: NOVEMBER 25, 2024
SAMPLING METHOD	: -	REPORT NO.	: 2024-U109826
SAMPLING BY	: CUSTOMER	WORK NO.	: 2024-010314
ANALYZED BY	: MISS NAPAPORN KHUNNOKKHUM	ANALYSIS NO.	: T24BA761-0005 - T24BA761-0006

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT		REGULATORY STANDARD	DETECTION LIMIT	LIMIT OF QUANTIFICATION (LOQ)
			1 T24BA761-0005	2 T24BA761-0006			
pH ^a	-	ELECTROMETRIC METHOD (SM: PART 4500-H ⁺ B)	7.1 (25°C)	6.4 (25°C)	5.5-9.0	-	-
BIOCHEMICAL OXYGEN DEMAND ^c	mg/L	AZIDE MODIFICATION METHOD (SM: PART 5210 B AND PART 4500-O C)	174	2.4	≤ 30	-	2.0
TOTAL SUSPENDED SOLIDS ^a	mg/L	TOTAL SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: PART 2540 D)	186	< 5.0	≤ 40	-	5.0
TOTAL KJELDAHL NITROGEN ^b	mg/L	IN-HOUSE METHOD: UAE TP WAS.001 (KJELDAHL METHOD); SM: PART 4500-Norg C	103	14.1	≤ 35	15	5.0
OIL AND GREASE ^a	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: PART 5520 B)	14	< 3	≤ 20	-	3
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, 24th EDITION, 2023.

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

RESULT 1 : INFLUENT (BUILDING C)

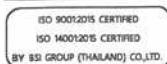
RESULT 2 : EFFLUENT (BUILDING C)

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. 141, PART 233 D, DATED AUGUST 27, 2024.

BIOCHEMICAL OXYGEN DEMAND (T24BA761-0006) : ADDITION OF NITRIFICATION INHIBITION (TCMP) FOLLOW TO THE SM: 5210B.5(e).

Piyapat S.

(MRS PIYAPAT SUTTAMANUTWONG)
LABORATORY SUPERVISOR



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NSC-TISI-TIS 17025
TESTING 0207



TESTING
No. 0063

ANALYSIS REPORT

CUSTOMER NAME	: KASEMKIJ COMPANY LIMITED (KANTARY HILLS HOTEL CHIANG MAI)	RECEIVED DATE	: DECEMBER 19, 2024
ADDRESS	: 44, 44 / 1-4 NIMMANHEMIN ROAD SUTHEP MUEANG CHIANG MAI CHIANG MAI 50200	ANALYTICAL DATE	: DECEMBER 19-26, 2024
CONTACT INFORMATION	: TEL : 0 2233 8989-98 e-mail : kj-qc@kasemkij.com	ISSUE DATE	: JANUARY 17, 2025
SAMPLING SOURCE	: WASTEWATER TREATMENT PLANT OF KANTARY HILLS HOTEL CHIANGMAI	REPORT NO.	: 2025-U003965
SAMPLE TYPE	: WASTEWATER	WORK NO.	: 2024-011304
SAMPLING DATE	: DECEMBER 16, 2024	ANALYSIS NO.	: T24BD825-0005 - T24BD825-0006
SAMPLING TIME	: -		
SAMPLING METHOD	: -		
SAMPLING BY	: CUSTOMER		
ANALYZED BY	: MISS NAPAPORN KHUNNOKKHUM		

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT		REGULATORY STANDARD	DETECTION LIMIT	LIMIT OF QUANTITATION (LOQ)
			1 T24BD825-0005	2 T24BD825-0006			
pH ^c	-	ELECTROMETRIC METHOD (SM: PART 4500-H ⁺ B)	7.2 (25°C)	6.4 (25°C) ^a	5.5-9.0	-	-
BIOCHEMICAL OXYGEN DEMAND ^c	mg/L	AZIDE MODIFICATION METHOD (SM: PART 5210 B AND PART 4500-O C)	152	2.5	≤ 30	-	2.0
TOTAL SUSPENDED SOLIDS ^a	mg/L	TOTAL SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: PART 2540 D)	269	5.7	≤ 40	-	5.0
TOTAL KJELDAHL NITROGEN ^b	mg/L	IN-HOUSE METHOD: UAE.TP.WAS.001(KJELDAHL METHOD); SM: PART 4500-Norg C	109	15.5	≤ 35	15	5.0

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NSC-TISI-TIS 17025
TESTING 0207



TESTING
No. 0063

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT		REGULATORY STANDARD	DETECTION LIMIT	LIMIT OF QUANTITATION (LOQ)
			1 T24BD825-0005	2 T24BD825-0006			
OIL AND GREASE ^a	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: PART 5520 B)	14	< 3	≤ 20	-	3
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

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

RESULT 1 : INFLUENT (BUILDING C)

RESULT 2 : EFFLUENT (BUILDING C)

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.141,
PART 233 D, DATED AUGUST 27, 2024.

BIOCHEMICAL OXYGEN DEMAND (T24BD825-0006) : ADDITION OF NITRIFICATION INHIBITION (TCMP) FOLLOW TO THE SM: 5210B,5(e).

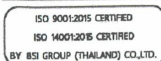
[^] : SAMPLING ON JANUARY 9, 2025, ANALYSIS NO. T25AA556-0001 (ANALYTICAL DATE: JANUARY 10-13, 2025).

THE REASON FOR ISSUING THE NEW REPORT IS TO SUBSTITUTE THE RESULT OF THE pH PARAMETER.

SUBSTITUTED REPORT FOR REPORT NO. 2024-U123391, ISSUE DATE JANUARY 2, 2025.

Piyapat S.

(MRS PIYAPAT SUTTAMANUTWONG)
LABORATORY SUPERVISOR



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