

ผลวิเคราะห์คุณภาพน้ำทั้งโครงการ KANTARY BAY RAYONG อาคาร 2



United Analyst and Engineering Consultant Co., Ltd.

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

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 : KASEMKI COMPANY LIMITED (KANTARY BAY HOTEL RAYONG)
ADDRESS : 50, 50/2 RIEPJAFANG ROAD PAK NAM MUEANG RAYONG RAYONG 21000
CONTACT INFORMATION : TEL : 0 2233 8989-98 e-mail : kj-qc@kasemki.com
SAMPLING SOURCE : WASTEWATER TREATMENT PLANT OF KANTARY BAY, RAYONG
SAMPLE TYPE : WASTEWATER
SAMPLING DATE : JANUARY 20, 2021
SAMPLING TIME : -
SAMPLING METHOD : -
SAMPLING BY : CUSTOMER
ANALYZED BY : MISS AMONRAT PUTTALEE

RECEIVED DATE : JANUARY 21, 2021
ANALYTICAL DATE : JANUARY 21-27, 2021
REPORT NO. : 2021-U05212
WORK NO. : 2020-009024
ANALYSIS NO. : T21AA958-0003 - T21AA958-0004

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT		REGULATORY STANDARD	DETECTION LIMIT
			1 T21AA958-0003	2 T21AA958-0004		
pH ^a	-	ELECTROMETRIC METHOD (SM 4500-H ⁺ B)	6.7 (25°C)	6.8 (25°C)	5-9	-
BIOCHEMICAL OXYGEN DEMAND ^b	mg/L	AZIDE MODIFICATION METHOD (SM 4500-O C AND 5210 B)	15.7	3.5	≤ 30	2.0
SUSPENDED SOLIDS ^a	mg/L	SUSPENDED SOLIDS DRIED AT 103-105 °C (SM 2540 D)	47.3	7.1	≤ 40	5.0
TOTAL KJELDAHL NITROGEN ^b	mg/L	IN-HOUSE METHOD UAE.TP.TN.02 (KJELDAHL METHOD); SM 4500-Norg C	29.8	20.2	≤ 35	1.5
FAT, OIL AND GREASE ^a	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM 5520 B)	ND	ND	≤ 20	3
MICROBIOLOGY						
FAECAL COLIFORM BACTERIA ^b	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: 9221 E)	>160,000	< 1.8	-	1.8
SAMPLE CONDITION						
WATER'S COLOUR/TURBID			YELLOW/CLEAR	YELLOW/CLEAR		
SEDIMENT			BROWN	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.

RESULT 1 : INFLUENT (RYG 2)

RESULT 2 : EFFLUENT (RYG 2)

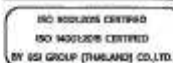
REGULATORY STANDARD : RANGE OR MAXIMUM PERMITTED VALUE FOR BUILDING EFFLUENT STANDARDS CLASS B, NOTIFICATION OF THE MINISTRY OF RESOURCES AND ENVIRONMENT, PUBLISHED IN THE ROYAL GOVERNMENT GAZETTE, VOL. 122, PART 125 D, DATED DECEMBER 29, 2005.

ND : NON-DETECTABLE

Piyapat S.

(MRS PIYAPAT SUTTAMANUTWONG)
LABORATORY SUPERVISOR

FEBRUARY 2, 2021



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ANALYSIS REPORT

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ADDRESS : 50, 50/2 RIEPJAIFANG ROAD PAK NAM MUEANG RAYONG RAYONG 21000
CONTACT INFORMATION : TEL : 0 2233 8989-98 e-mail : kj-qc@kasemij.com
SAMPLING SOURCE : WASTEWATER TREATMENT PLANT OF KANTARY BAY, RAYONG
SAMPLE TYPE : WASTEWATER
SAMPLING DATE : FEBRUARY 3, 2021
SAMPLING TIME : -
SAMPLING METHOD : -
SAMPLING BY : CUSTOMER
ANALYZED BY : MISS AMONRAT PUTTALEE

RECEIVED DATE : FEBRUARY 4, 2021
ANALYTICAL DATE : FEBRUARY 4-10, 2021
REPORT NO. : 2021-U08803
WORK NO. : 2021-000633
ANALYSIS NO. : T21AB726-0003 - T21AB726-0004

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT		REGULATORY STANDARD	DETECTION LIMIT
			1 T21AB726-0003	2 T21AB726-0004		
pH ^a	-	ELECTROMETRIC METHOD (SM 4500-H ⁺ B)	6.3 (25°C)	5.8 (25°C)	5-9	-
BIOCHEMICAL OXYGEN DEMAND ^b	mg/L	AZIDE MODIFICATION METHOD (SM 4500-O C AND 5210 B)	8.1	2.0	≤ 30	2.0
SUSPENDED SOLIDS ^b	mg/L	SUSPENDED SOLIDS DRIED AT 103-105 °C (SM 2540 D)	319	115	≤ 40	5.0
TOTAL KJELDAHL NITROGEN ^c	mg/L	IN-HOUSE METHOD UAE.TP.TN.02 (KJELDAHL METHOD); SM 4500-Norg C	23.4	13.4	≤ 35	15
FAT, OIL AND GREASE ^a	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM 5520 B)	ND	ND	≤ 20	3
MICROBIOLOGY						
FAECAL COLIFORM BACTERIA ^b	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM 9221 E)	>160,000	< 15	-	15
SAMPLE CONDITION						
WATER'S COLOUR/TURBID			YELLOW/CLEAR	YELLOW/CLEAR		
SEDIMENT			BROWN	BROWN		

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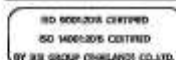
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Piyapat S.

(MRS PIYAPAT SUTTAMANUTWONG)
LABORATORY SUPERVISOR

FEBRUARY 16, 2021



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NSC-TISI-TIS 17025
TESTING Q207



TESTING
No. 0053

ANALYSIS REPORT

CUSTOMER NAME : KASEMKIJ COMPANY LIMITED (KANTARY BAY HOTEL RAYONG)
ADDRESS : 50, 50/2 RIEPJAIFANG ROAD PAK NAM MUEANG RAYONG RAYONG 21000
CONTACT INFORMATION : TEL : 0 2233 8989-98 e-mail : kj-qc@kasemkij.com
SAMPLING SOURCE : WASTEWATER TREATMENT PLANT OF KANTARY BAY, RAYONG
SAMPLE TYPE : WASTEWATER
SAMPLING DATE : MARCH 30, 2021
SAMPLING TIME : -
SAMPLING METHOD : -
SAMPLING BY : CUSTOMER
ANALYZED BY : MISS AMONRAT PUTTALEE

RECEIVED DATE : MARCH 30, 2021
ANALYTICAL DATE : MARCH 30 - APRIL 5, 2021
REPORT NO. : 2021-U22103
WORK NO. : 2021-001477
ANALYSIS NO. : T21AF356-0003 - T21AF356-0004

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT		REGULATORY STANDARD	DETECTION LIMIT
			1 T21AF356-0003	2 T21AF356-0004		
pH ^c	-	ELECTROMETRIC METHOD (SM: 4500-H ⁺ B)	8.8 (25°C)	7.1 (25°C)	5-9	-
BIOCHEMICAL OXYGEN DEMAND ^c	mg/L	AZIDE MODIFICATION METHOD (SM: 4500-O ₂ C AND 5210 B)	112	4.4	≤ 30	2.0
SUSPENDED SOLIDS ^a	mg/L	SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: 2540 D)	78.6	ND	≤ 40	5.0
TOTAL KJELDAHL NITROGEN ^c	mg/L	IN-HOUSE METHOD UAE.TP.TN.02 (KJELDAHL METHOD); SM: 4500-Norg C	24.6	15.2	≤ 35	1.5
FAT, OIL AND GREASE ^a	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: 5520 B)	ND	ND	≤ 20	3
MICROBIOLOGY						
FAECAL COLIFORM BACTERIA ^b	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: 9221 E)	54,000	4.5	-	1.8
SAMPLE CONDITION						
WATER'S COLOUR/TURBID			BROWN/CLEAR	BROWN/CLEAR		
SEDIMENT			BROWN	BROWN		

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

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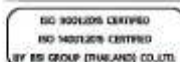
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Piyapat S.

(MRS PIYAPAT SUTTAMANUTWONG)
LABORATORY SUPERVISOR

APRIL 9, 2021



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CONTACT INFORMATION : TEL : 0 2233 8989-98 e-mail : kj-qc@kasemkij.com
SAMPLING SOURCE : WASTEWATER TREATMENT PLANT OF KANTARY BAY, RAYONG
SAMPLE TYPE : WASTEWATER
SAMPLING DATE : APRIL 21, 2021
SAMPLING TIME : -
SAMPLING METHOD : -
SAMPLING BY : CUSTOMER
ANALYZED BY : MISS AMONRAT PUTTALEE

RECEIVED DATE : APRIL 22, 2021
ANALYTICAL DATE : APRIL 22-23, 2021
REPORT NO. : 2021-U27267
WORK NO. : 2021-002374
ANALYSIS NO. : T21AG693-0001 - T21AG693-0002

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT		REGULATORY STANDARD	DETECTION LIMIT
			1 T21AG693-0001	2 T21AG693-0002		
pH ^c	-	ELECTROMETRIC METHOD (SM: 4500-H ⁺ B)	6.1 (25°C)	6.4 (25°C)	5-9	-
BIOCHEMICAL OXYGEN DEMAND ^a	mg/L	AZIDE MODIFICATION METHOD (SM: 4500-O ₂ C AND 5210 B)	10.3	6.9	≤ 30	2.0
SUSPENDED SOLIDS ^a	mg/L	SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: 2540 D)	6.3	ND	≤ 40	5.0
TOTAL KJELDAHL NITROGEN ^c	mg/L	IN-HOUSE METHOD: UAE:TP:TN.02 (KJELDAHL METHOD); SM: 4500-Norg C	15.5	6.4	≤ 35	1.5
FAT, OIL AND GREASE ^a	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: 5520 B)	ND	ND	≤ 20	3
MICROBIOLOGY						
Faecal COLIFORM BACTERIA ^b	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: 9221 E)	35,000	7,900	-	1.8
SAMPLE CONDITION						
WATER'S COLOUR/TURBID			YELLOW/CLEAR	YELLOW/CLEAR		
SEDIMENT			YELLOW	YELLOW		

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RESULT 2 : EFFLUENT (RYG 2)

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 : NON-DETECTABLE



(MISS BENJAWAN VIRIYOTHA)
LABORATORY SUPERVISOR

MAY 7, 2021





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NSC-TISI-TIS 17025
TESTING 0207



TESTING
No. 0063

ANALYSIS REPORT

CUSTOMER NAME : KASEMKI COMPANY LIMITED (KANTARY BAY HOTEL RAYONG)
ADDRESS : 50, 50/2 RIEPJAFANG ROAD PAK NAM MUEANG RAYONG RAYONG 21000
CONTACT INFORMATION : TEL : 0 2233 8989-98 e-mail : kj-qc@kasemki.com
SAMPLING SOURCE : WASTEWATER TREATMENT PLANT OF KANTARY BAY, RAYONG
SAMPLE TYPE : WASTEWATER
SAMPLING DATE : MAY 12, 2021
SAMPLING TIME : -
SAMPLING METHOD : -
SAMPLING BY : CUSTOMER
ANALYZED BY : MISS AMONRAT PUTTALEE
RECEIVED DATE : MAY 13, 2021
ANALYTICAL DATE : MAY 13-19, 2021
REPORT NO. : 2021-U33413
WORK NO. : 2021-003212
ANALYSIS NO. : T21AD069-0003 - T21AD069-0004

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT		REGULATORY STANDARD	DETECTION LIMIT
			1 T21AD069-0003	2 T21AD069-0004		
pH ^a	-	ELECTROMETRIC METHOD (SM: 4500-H ⁺ B)	6.0 (25°C)	6.0 (25°C)	5-9	-
BIOCHEMICAL OXYGEN DEMAND ^b	mg/L	AZIDE MODIFICATION METHOD (SM: 4500-O C AND 5210 B)	113	3.1	≤ 30	20
SUSPENDED SOLIDS ^c	mg/L	SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: 2540 D)	8.5	ND	≤ 40	50
TOTAL KJELDAHL NITROGEN ^b	mg/L	IN-HOUSE METHOD: UAE:TP.WAS.001 (KJELDAHL METHOD); SM: 4500-Norg C	8.0	< LOQ	≤ 35	15
FAT, OIL AND GREASE ^d	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: 5520 B)	ND	ND	≤ 20	3

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PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT		REGULATORY STANDARD	DETECTION LIMIT
			1 T21A1069-0003	2 T21A1069-0004		
MICROBIOLOGY						
FAECAL COLIFORM BACTERIA ^b	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM 9221E)	>160,000	6.8	-	1.8
SAMPLE CONDITION						
WATER'S COLOUR/TURBID			YELLOW/CLEAR	YELLOW/CLEAR		
SEDIMENT			BROWN	BROWN		

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

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RESULT 1 : INFLUENT (RYG 2)

RESULT 2 : EFFLUENT (RYG 2)

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.

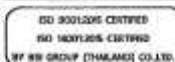
ND : NON-DETECTABLE

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

Piyapat S.

(MRS. PIYAPAT SUTTAMANUTWONG)
LABORATORY SUPERVISOR

MAY 27, 2021



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2021-U33413

ANALYSIS REPORT

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ADDRESS : 50, 50/2 RIEPJAIFANG ROAD PAK NAM MUEANG RAYONG RAYONG 21000
CONTACT INFORMATION : TEL : 0 2233 8989-98 e-mail : kj-qc@kasemkij.com
SAMPLING SOURCE : WASTEWATER TREATMENT PLANT OF KANTARY BAY, RAYONG
SAMPLE TYPE : WASTEWATER
SAMPLING DATE : JUNE 9, 2021
SAMPLING TIME : -
SAMPLING METHOD : -
SAMPLING BY : CUSTOMER
ANALYZED BY : MISS AMONRAT PUTTALEE

RECEIVED DATE : JUNE 10, 2021
ANALYTICAL DATE : JUNE 10-18, 2021
REPORT NO. : 2021-U41144
WORK NO. : 2021-003736
ANALYSIS NO. : T21A890-0003 - T21A890-0004

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT		REGULATORY STANDARD	DETECTION LIMIT
			1 T21A890-0003	2 T21A890-0004		
pH ^c	-	ELECTROMETRIC METHOD (SM: 4500-H ⁺ B)	6.3 (25°C)	6.3 (25°C)	5-9	-
BIOCHEMICAL OXYGEN DEMAND ^c	mg/L	AZIDE MODIFICATION METHOD (SM: 4500-O C AND 5210 B)	78.9	7.1	≤ 30	2.0
SUSPENDED SOLIDS ^a	mg/L	SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: 2540 D)	68.9	ND	≤ 40	5.0
TOTAL KJELDAHL NITROGEN ^b	mg/L	IN-HOUSE METHOD: UAE.TP.WAS.001 (KJELDAHL METHOD); SM: 4500-Norg C	10.6	6.0	≤ 35	15
FAT, OIL AND GREASE ^a	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: 5520 B)	5	ND	≤ 20	3
MICROBIOLOGY						
FAECAL COLIFORM BACTERIA ^b	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: 9221 E)	160,000	170	-	1.8
SAMPLE CONDITION						
WATER'S COLOUR/TURBID			YELLOW/TURBID	YELLOW/CLEAR		
SEDIMENT			GREY	YELLOW		

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

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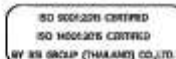
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Piyapat S.

(MRS PIYAPAT SUTTAMANUTWONG)
LABORATORY SUPERVISOR

JUNE 22, 2021



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