

ภาคผนวก ก ผลการตรวจวิเคราะห์คุณภาพน้ำ



ผลการติดตามตรวจสอบคุณภาพน้ำเสีย และน้ำทิ้ง
ระหว่างเดือนกรกฎาคม ถึงธันวาคม พ.ศ. 2565



กลุ่มอาคาร ออลซีซั่น พรีเมียมเพอร์ตี

(M-Thai, CRC, Capital)



ANALYSIS REPORT

CUSTOMER NAME : ALL SEASON PROPERTY COMPANY LIMITED
ADDRESS : 19TH FLOOR, M THAI TOWER ALL SEASON PLACE, 87 LUMPHINI PATHUM WAN BANGKOK 10330
CONTACT INFORMATION : TEL : 0 2625 1841 e-mail : Kiatisakp@asp.th.com
SAMPLING SOURCE : WASTEWATER TREATMENT PLANT OF M-THAI BUILDING
SAMPLE TYPE : WASTEWATER
SAMPLING DATE : AUGUST 20, 2022
SAMPLING TIME : 1/
SAMPLING METHOD ° : GRAB, GRAB AND STERILE TECHNIQUE
SAMPLING BY ° : MR ACHITA SAENGJAN
ANALYZED BY : MISS AMONRAT PUTTALEE

RECEIVED DATE : AUGUST 20, 2022
ANALYTICAL DATE : AUGUST 20-27, 2022
REPORT NO. : 2022-U067038
WORK NO. : 2022-000786
ANALYSIS NO. : T22AQ372-0001 - T22AQ372-0002

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT		REGULATORY STANDARD	DETECTION LIMIT
			1 09:50 HOUR 1/ T22AQ372-0001	2 10:00 HOUR 1/ T22AQ372-0002		
pH °	-	ELECTROMETRIC METHOD AT SITE (SM:4500-H ⁺ B)	7.4 (28°C)	7.4 (28°C)	5-9	-
BIOCHEMICAL OXYGEN DEMAND °	mg/L	AZIDE MODIFICATION METHOD (SM: 4500-O C AND 5210 B)	22.6	7.8	≤ 30	2.0
SUSPENDED SOLIDS °	mg/L	SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: 2540 D)	16.8	ND	≤ 40	5.0
TOTAL DISSOLVED SOLIDS °	mg/L	IN-HOUSE METHOD: UAE.TP.WAO.007 (TOTAL DISSOLVED SOLIDS DRIED AT 103-105 °C); SM 2540 C	308	260	500*	25
SETTLABLE SOLIDS °	mL/L	IMHOFF CONE (SM: 2540 F)	< 0.1	< 0.1	≤ 0.5	0.1
AMMONIA-NITROGEN °	mg/L NH ₃ -N	KJELDAHL METHOD (SM: 4500-NH ₃ B AND 4500-NH ₃ C)	34.6	12.9	-	1.5
PHOSPHATE °	mg/L PO ₄ ³⁻	ASCORBIC ACID METHOD (SM: 4500-P E)	10.6	6.67	-	0.03
SULPHIDE °	mg/L	IODOMETRIC METHOD (SM: 4500-S ²⁻ F)	< 0.50	< 0.50	≤ 1.0	0.50
TOTAL KJELDAHL NITROGEN °	mg/L	IN-HOUSE METHOD: UAE.TP.WAS.001 (KJELDAHL METHOD); SM: 4500-Norg C	45.4	28.4	≤ 35	1.5
FAT, OIL AND GREASE °	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: 5520 B)	ND	ND	≤ 20	3



PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT		REGULATORY STANDARD	DETECTION LIMIT
			1	2		
			09:50 HOUR 1/ T22AQ372-0001	10:00 HOUR 1/ T22AQ372-0002		
MICROBIOLOGY						
FAECAL COLIFORM BACTERIA b	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: 9221 E)	35,000	35,000	-	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)

^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 : EQUALIZATION TANK

RESULT 2 : EFFLUENT

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.

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.

COMMENT : ALL TESTED PARAMETERS OF THE EFFLUENT ARE COMPLIED WITH REGULATORY STANDARD. FOR FAECAL COLIFORM BACTERIA, IT SHOULD BE DISINFECTED BEFORE DISCHARGING INTO THE PUBLIC WATERWAY ALTHOUGH REGULATORY STANDARD IS NOT NOTIFIED.

(MRS PIYAPAT SUTTAMANUTWONG)
LABORATORY SUPERVISOR

AUGUST 31, 2022

ANALYSIS REPORT

CUSTOMER NAME : ALL SEASON PROPERTY COMPANY LIMITED
ADDRESS : 19TH FLOOR, M THAI TOWER ALL SEASON PLACE, 87 LUMPHINI PATHUM WAN BANGKOK 10330
CONTACT INFORMATION : TEL : 0 2625 1841 e-mail : Kiatisakp@asp.th.com
SAMPLING SOURCE : WASTEWATER TREATMENT PLANT OF CAPITAL TOWER
SAMPLE TYPE : WASTEWATER
SAMPLING DATE : AUGUST 20, 2022
SAMPLING TIME : 1/
SAMPLING METHOD ° : GRAB, GRAB AND STERILE TECHNIQUE
SAMPLING BY ° : MR ACHITA SAENGJAN
ANALYZED BY : MISS AMONRAT PUTTALEE

RECEIVED DATE : AUGUST 20, 2022
ANALYTICAL DATE : AUGUST 20-27, 2022
REPORT NO. : 2022-U067039
WORK NO. : 2022-000786
ANALYSIS NO. : T22AQ372-0003 - T22AQ372-0004

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT		REGULATORY STANDARD	DETECTION LIMIT
			1 10:10 HOUR 1/ T22AQ372-0003	2 10:20 HOUR 1/ T22AQ372-0004		
pH °	-	ELECTROMETRIC METHOD AT SITE (SM:4500-H ⁺ B)	7.2 (27°C)	7.1 (28°C)	5-9	-
BIOCHEMICAL OXYGEN DEMAND °	mg/L	AZIDE MODIFICATION METHOD (SM: 4500-O C AND 5210 B)	45.6	17.5	≤ 30	2.0
SUSPENDED SOLIDS ^a	mg/L	SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: 2540 D)	22.9	ND	≤ 40	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	278	272	500*	25
SETTLEABLE SOLIDS °	mL/L	IMHOFF CONE (SM: 2540 F)	< 0.1	< 0.1	≤ 0.5	0.1
AMMONIA-NITROGEN °	mg/L NH ₃ -N	KJELDAHL METHOD (SM: 4500-NH ₃ B AND 4500-NH ₃ C)	43.1	5.7	-	1.5
PHOSPHATE °	mg/L PO ₄ ³⁻	ASCORBIC ACID METHOD (SM: 4500-P E)	9.03	3.40	-	0.03
SULPHIDE ^b	mg/L	IODOMETRIC METHOD (SM: 4500-S ²⁻ F)	1.7	< 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	56.6	210	≤ 35	1.5
FAT, OIL AND GREASE ^a	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: 5520 B)	ND	ND	≤ 20	3



PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT		REGULATORY STANDARD	DETECTION LIMIT
			1 10:10 HOUR 1/ T22AQ372-0003	2 10:20 HOUR 1/ T22AQ372-0004		
MICROBIOLOGY						
FAECAL COLIFORM BACTERIA b	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: 9221 E)	>160,000	1,300	-	1.8
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, 23rd EDITION, 2017.

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

RESULT 1 : EQUALIZATION TANK

RESULT 2 : EFFLUENT

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.

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.

COMMENT : ALL TESTED PARAMETERS OF THE EFFLUENT ARE COMPLIED WITH REGULATORY STANDARD. FOR FAECAL COLIFORM BACTERIA, IT SHOULD BE DISINFECTED BEFORE DISCHARGING INTO THE PUBLIC WATERWAY ALTHOUGH REGULATORY STANDARD IS NOT NOTIFIED.

(MRS PIYAPAT SUTTAMANUTWONG)
LABORATORY SUPERVISOR

AUGUST 31, 2022

ANALYSIS REPORT

CUSTOMER NAME : ALL SEASON PROPERTY COMPANY LIMITED
ADDRESS : 19TH FLOOR, M THAI TOWER ALL SEASON PLACE, 87 LUMPHINI PATHUM WAN BANGKOK 10330
CONTACT INFORMATION : TEL : 0 2625 1841 e-mail : Kiatisakp@asp.th.com
SAMPLING SOURCE : WASTEWATER TREATMENT PLANT OF CRC TOWER
SAMPLE TYPE : WASTEWATER
SAMPLING DATE : AUGUST 20, 2022
SAMPLING TIME : 1/
SAMPLING METHOD ° : GRAB, GRAB AND STERILE TECHNIQUE
SAMPLING BY ° : MR ACHITA SAENGJAN
ANALYZED BY : MISS AMONRAT PUTTALEE

RECEIVED DATE : AUGUST 20, 2022
ANALYTICAL DATE : AUGUST 20-27, 2022
REPORT NO. : 2022-U067040
WORK NO. : 2022-000786
ANALYSIS NO. : T22AQ372-0005 - T22AQ372-0006

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT		REGULATORY STANDARD	DETECTION LIMIT
			1 10:40 HOUR 1/ T22AQ372-0005	2 10:30 HOUR 1/ T22AQ372-0006		
pH °	-	ELECTROMETRIC METHOD AT SITE (SM:4500-H° B)	6.7 (28°C)	7.0 (28°C)	5-9	-
BIOCHEMICAL OXYGEN DEMAND °	mg/L	AZIDE MODIFICATION METHOD (SM: 4500-O C AND 5210 B)	224	6.4	≤ 20	2.0
SUSPENDED SOLIDS °	mg/L	SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: 2540 D)	77.5	6.7	≤ 30	5.0
TOTAL DISSOLVED SOLIDS °	mg/L	IN-HOUSE METHOD: UAE.TP.WAO.007 (TOTAL DISSOLVED SOLIDS DRIED AT 103-105 °C); SM 2540 C	392	234	500*	25
SETTLABLE SOLIDS °	mL/L	IMHOFF CONE (SM: 2540 F)	0.6	< 0.1	≤ 0.5	0.1
AMMONIA-NITROGEN °	mg/L NH ₃ -N	KJELDAHL METHOD (SM: 4500-NH ₃ B AND 4500-NH ₃ C)	52.2	11.9	-	1.5
PHOSPHATE °	mg/L PO ₄ ³⁻	ASCORBIC ACID METHOD (SM: 4500-P E)	6.18	2.88	-	0.03
SULPHIDE °	mg/L	IODOMETRIC METHOD (SM: 4500-S ²⁻ F)	6.7	< 0.50	≤ 1.0	0.50
TOTAL KJELDAHL NITROGEN °	mg/L	IN-HOUSE METHOD: UAE.TP.WAS.001 (KJELDAHL METHOD); SM: 4500-Norg C	69.9	33.8	≤ 35	1.5
FAT, OIL AND GREASE °	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: 5520 B)	6	ND	≤ 20	3



PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT		REGULATORY STANDARD	DETECTION LIMIT
			1 10:40 HOUR 1/ T22AQ372-0005	2 10:30 HOUR 1/ T22AQ372-0006		
MICROBIOLOGY						
FAECAL COLIFORM BACTERIA b	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: 9221 E)	>160,000	92,000	-	1.8
SAMPLE CONDITION						
WATER'S COLOUR/TURBID			GREY/TURBID	YELLOW/CLEAR		
SEDIMENT			GREY	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 : EQUALIZATION TANK

RESULT 2 : EFFLUENT

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.

COMMENT : ALL TESTED PARAMETERS OF THE EFFLUENT ARE COMPLIED WITH REGULATORY STANDARD. FOR FAECAL COLIFORM BACTERIA, IT SHOULD BE DISINFECTED BEFORE DISCHARGING INTO THE PUBLIC WATERWAY ALTHOUGH REGULATORY STANDARD IS NOT NOTIFIED.

(MRS PIYAPAT SUTTAMANUTWONG)
LABORATORY SUPERVISOR

AUGUST 31, 2022

ANALYSIS REPORT

CUSTOMER NAME : ALL SEASON PROPERTY COMPANY LIMITED
ADDRESS : 19TH FLOOR, M THAI TOWER ALL SEASON PLACE, 87 LUMPHINI PATHUM WAN BANGKOK 10330
CONTACT INFORMATION : TEL : 0 2625 1841 e-mail : Kiatisakp@asp.th.com
SAMPLING SOURCE : WASTEWATER TREATMENT PLANT OF M-THAI BUILDING
SAMPLE TYPE : WASTEWATER
SAMPLING DATE : DECEMBER 17, 2022
SAMPLING TIME : 1/
SAMPLING METHOD ^c : GRAB, GRAB AND STERILE TECHNIQUE
SAMPLING BY ^c : MR PHATSAWUT THOSAKOON
ANALYZED BY : MISS AMONRAT PUTTALEE
RECEIVED DATE : DECEMBER 17, 2022
ANALYTICAL DATE : DECEMBER 17-26, 2022
REPORT NO. : 2022-U103434
WORK NO. : 2022-000786
ANALYSIS NO. : T22AZ248-0001 - T22AZ248-0002

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT		REGULATORY STANDARD	DETECTION LIMIT
			1 10:30 HOUR 1/ T22AZ248-0001	2 10:05 HOUR 1/ T22AZ248-0002		
pH ^c	-	ELECTROMETRIC METHOD AT SITE (SM:4500-H ⁺ B)	7.7 (30°C)	7.6 (29°C)	5-9	-
BIOCHEMICAL OXYGEN DEMAND ^c	mg/L	AZIDE MODIFICATION METHOD (SM: 4500-O C AND 5210 B)	101	29.2	≤ 30	2.0
SUSPENDED SOLIDS ^a	mg/L	SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: 2540 D)	83.6	9.1	≤ 40	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	335	356	500*	25
SETTLABLE SOLIDS ^c	mL/L	IMHOFF CONE (SM: 2540 F)	2.5	< 0.1	≤ 0.5	0.1
AMMONIA-NITROGEN ^b	mg/L NH ₃ -N	KJELDAHL METHOD (SM: 4500-NH ₃ B AND 4500-NH ₃ C)	25.5	20.1	-	1.5
PHOSPHATE ^c	mg/L PO ₄ ³⁻	ASCORBIC ACID METHOD (SM: 4500-P E)	9.24	10.6	-	0.03
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	28.0	25.9	≤ 35	1.5
FAT, OIL AND GREASE ^a	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: 5520 B)	ND	ND	≤ 20	3



PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT		REGULATORY STANDARD	DETECTION LIMIT
			1	2		
			10:30 HOUR 1/ T22AZ248-0001	10:05 HOUR 1/ T22AZ248-0002		
MICROBIOLOGY						
FAECAL COLIFORM BACTERIA b	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: 9221 E)	24,000	7,000	-	1.8
SAMPLE CONDITION						
WATER'S COLOUR/TURBID			GREY/TURBID	YELLOW/TURBID		
SEDIMENT			GREY	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 : EQUALIZATION TANK

RESULT 2 : EFFLUENT

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.

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.

COMMENT : ALL TESTED PARAMETERS OF THE EFFLUENT ARE COMPLIED WITH REGULATORY STANDARD. FOR FAECAL COLIFORM BACTERIA, IT SHOULD BE DISINFECTED BEFORE DISCHARGING INTO THE PUBLIC WATERWAY ALTHOUGH REGULATORY STANDARD IS NOT NOTIFIED.

(MISS BENJAWAN VIRIYOTHAJ)
LABORATORY SUPERVISOR

DECEMBER 29, 2022

ANALYSIS REPORT

CUSTOMER NAME : ALL SEASON PROPERTY COMPANY LIMITED
ADDRESS : 19TH FLOOR, M THAI TOWER ALL SEASON PLACE, 87 LUMPHINI PATHUM WAN BANGKOK 10330
CONTACT INFORMATION : TEL : 0 2625 1841 e-mail : Kiatisakp@asp.th.com
SAMPLING SOURCE : WASTEWATER TREATMENT PLANT OF CAPITAL TOWER
SAMPLE TYPE : WASTEWATER
SAMPLING DATE : DECEMBER 17, 2022
SAMPLING TIME : 1/
SAMPLING METHOD : GRAB, GRAB AND STERILE TECHNIQUE
SAMPLING BY : MR PHATSAWUT THOSAKOON
ANALYZED BY : MISS AMONRAT PUTTALEE

RECEIVED DATE : DECEMBER 17, 2022
ANALYTICAL DATE : DECEMBER 17-26, 2022
REPORT NO. : 2022-U103437
WORK NO. : 2022-000786
ANALYSIS NO. : T22AZ248-0003 - T22AZ248-0004

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT		REGULATORY STANDARD	DETECTION LIMIT
			1 10:15 HOUR 1/ T22AZ248-0003	2 10:10 HOUR 1/ T22AZ248-0004		
pH ^c		ELECTROMETRIC METHOD AT SITE (SM:4500-H ⁺ B)	7.5 (30°C)	7.4 (30°C)	5-9	-
BIOCHEMICAL OXYGEN DEMAND ^c	mg/L	AZIDE MODIFICATION METHOD (SM: 4500-O C AND 5210 B)	34.6	12.3	≤ 30	2.0
SUSPENDED SOLIDS ^a	mg/L	SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: 2540 D)	19.0	22.5	≤ 40	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	354	364	500*	25
SETTLABLE SOLIDS ^c	mL/L	IMHOFF CONE (SM: 2540 F)	< 0.1	1.0	≤ 0.5	0.1
AMMONIA-NITROGEN ^b	mg/L NH ₃ -N	KJELDAHL METHOD (SM: 4500-NH ₃ B AND 4500-NH ₃ C)	33.2	16.1	-	1.5
PHOSPHATE ^c	mg/L PO ₄ ³⁻	ASCORBIC ACID METHOD (SM: 4500-P E)	10.3	9.33	-	0.03
SULPHIDE ^b	mg/L	IODOMETRIC METHOD (SM: 4500-S ²⁻ F)	2.9	< 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	38.9	23.2	≤ 35	1.5
FAT, OIL AND GREASE ^a	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: 5520 B)	ND	ND	≤ 20	3



PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT		REGULATORY STANDARD	DETECTION LIMIT
			1	2		
			10:15 HOUR 1/ T22AZ248-0003	10:10 HOUR 1/ T22AZ248-0004		
MICROBIOLOGY						
FAECAL COLIFORM BACTERIA b	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: 9221 E)	>160,000	1,300	-	1.8
SAMPLE CONDITION						
WATER'S COLOUR/TURBID			GREY/TURBID	YELLOW/TURBID		
SEDIMENT			GREY	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 : EQUALIZATION TANK

RESULT 2 : EFFLUENT

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.

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.

COMMENT : ALL TESTED PARAMETERS OF THE EFFLUENT ARE COMPLIED WITH REGULATORY STANDARD EXCEPT SETTLEBLE SOLIDS. FOR FAECAL COLIFORM BACTERIA, IT SHOULD BE DISINFECTED BEFORE DISCHARGING INTO THE PUBLIC WATERWAY ALTHOUGH REGULATORY STANDARD IS NOT NOTIFIED.

(MISS BENJAWAN VIRIYOTHAI)
LABORATORY SUPERVISOR

DECEMBER 29, 2022

ANALYSIS REPORT

CUSTOMER NAME	: ALL SEASON PROPERTY COMPANY LIMITED	RECEIVED DATE	: DECEMBER 17, 2022
ADDRESS	: 19TH FLOOR, M THAI TOWER ALL SEASON PLACE, 87 LUMPHINI PATHUM WAN BANGKOK 10330	ANALYTICAL DATE	: DECEMBER 17-26, 2022
CONTACT INFORMATION	: TEL : 0 2625 1841 e-mail : Kiatisakp@asp.th.com	REPORT NO.	: 2022-U103441
SAMPLING SOURCE	: WASTEWATER TREATMENT PLANT OF CRC TOWER	WORK NO.	: 2022-000786
SAMPLE TYPE	: WASTEWATER	ANALYSIS NO.	: T22AZ248-0005 - T22AZ248-0006
SAMPLING DATE	: DECEMBER 17, 2022		
SAMPLING TIME	: 1/		
SAMPLING METHOD °	: GRAB, GRAB AND STERILE TECHNIQUE		
SAMPLING BY °	: MR PHATSAWUT THOSAKOON		
ANALYZED BY	: MISS AMONRAT PUTTALEE		

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT		REGULATORY STANDARD	DETECTION LIMIT
			1 10:25 HOUR 1/ T22AZ248-0005	2 10:20 HOUR 1/ T22AZ248-0006		
pH °	-	ELECTROMETRIC METHOD AT SITE (SM:4500-H° B)	6.9 (29°C)	7.1 (30°C)	5-9	-
BIOCHEMICAL OXYGEN DEMAND °	mg/L	AZIDE MODIFICATION METHOD (SM: 4500-O C AND 5210 B)	221	28.6	≤ 20	2.0
SUSPENDED SOLIDS °	mg/L	SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: 2540 D)	72.2	37.1	≤ 30	5.0
TOTAL DISSOLVED SOLIDS °	mg/L	IN-HOUSE METHOD: UAE.TP.WAO.007 (TOTAL DISSOLVED SOLIDS DRIED AT 103-105 °C); SM 2540 C	490	398	500*	25
SETTLABLE SOLIDS °	mL/L	IMHOFF CONE (SM: 2540 F)	< 0.1	0.2	≤ 0.5	0.1
AMMONIA-NITROGEN °	mg/L NH ₃ -N	KJELDAHL METHOD (SM: 4500-NH ₃ B AND 4500-NH ₃ C)	46.6	44.3	-	1.5
PHOSPHATE °	mg/L PO ₄ ³⁻	ASCORBIC ACID METHOD (SM: 4500-P E)	13.1	14.6	-	0.03
SULPHIDE °	mg/L	IODOMETRIC METHOD (SM: 4500-S ²⁻ F)	5.8	0.88	≤ 1.0	0.50
TOTAL KJELDAHL NITROGEN °	mg/L	IN-HOUSE METHOD: UAE.TP.WAS.001 (KJELDAHL METHOD); SM: 4500-Norg C	59.8	55.9	≤ 35	1.5
FAT, OIL AND GREASE °	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: 5520 B)	6	ND	≤ 20	3



PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT		REGULATORY STANDARD	DETECTION LIMIT
			1 10:25 HOUR 1/ T22AZ248-0005	2 10:20 HOUR 1/ T22AZ248-0006		
MICROBIOLOGY						
FAECAL COLIFORM BACTERIA b	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: 9221 E)	>160,000	>160,000	-	1.8
SAMPLE CONDITION						
WATER'S COLOUR/TURBID			BLACK/TURBID	YELLOW/TURBID		
SEDIMENT			BLACK	GREY		

^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 : EQUALIZATION TANK

RESULT 2 : EFFLUENT

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.

COMMENT : ALL TESTED PARAMETERS OF THE EFFLUENT ARE COMPLIED WITH REGULATORY STANDARD EXCEPT BIOCHEMICAL OXYGEN DEMAND, SUSPENDED SOLIDS AND TOTAL KJELDAHL NITROGEN. FOR FAECAL COLIFORM BACTERIA, IT SHOULD BE DISINFECTED BEFORE DISCHARGING INTO THE PUBLIC WATERWAY ALTHOUGH REGULATORY STANDARD IS NOT NOTIFIED.

(MISS BENJAWAN VIRIYOTHAI)
LABORATORY SUPERVISOR

DECEMBER 29, 2022



อาคาร ออลซีซั่น แมนชั่น





บริษัท ศูนย์วิเคราะห์น้ำ จำกัด
WATER ANALYSIS CENTER COMPANY LIMITED
 1/94 หมู่ 5 ต. คันลำ อ. อุทัย จ. พระนครศรีอยุธยา 13210
 1/94 Moo 5, T. Kanlam, A.U. Thai, Ayutthaya 13210, Thailand
 Tel : 035-226-383, 035-800-583 Fax : 035-800-594



TESTING
No.0029

ANALYSIS REPORT

Page 1 of 1

Customer Name : นิติบุคคลอาคารชุด ALL SEASONS MANSION
Address : 87/210 ถนนวิภาวดี แขวงจตุจักร เขตปทุมวัน กรุงเทพมหานคร 10330
Contact : K. Moriton **Phone** : 02-654-1078, 084-439-9337 **E.mail** : Moriton.Pattano@ap.jll.com
Sample Type : Waste water **Sample Site#** : โครงการ ALL SEASONS MANSION **Sampling Method#** : Grab
Sampling Date# : 23/08/2022 **Sampling By#** : MANOP (ว-190-จ-7585) **Receive Date** : 23/08/2022
Analysis Date : 23-30/08/2022 **Report Date** : 30/08/2022 **Report No.** : R 05640/65

Parameter	Unit	Method	WC 07433/65 น้ำเสีย EQ	WC 07434/65 น้ำเสีย Effluent	Standard *
pH	-	In-house method: TM 001	7.5 (25°C)	6.7 (25°C)	5.0-9.0
BOD	mg/L	Azide Modification	49 #	12 #	≤ 30
Total Suspended Solid	mg/L	In-house method: TM 016	20	14	≤ 40
Total Dissolved Solid	mg/L	Dried at 103-105 °C	216 #	304 #	≤ 500
Settleable Solids	mL/L	Volumetric	< 0.1 #	< 0.1 #	≤ 0.5
Oil & Grease	mg/L	In-house Method : TM 020	4	< 2	≤ 20
Total Kjeldahl Nitrogen	mg/L as N	In-house method : TM 023	34	7	≤ 35
Total Phosphorus	mg/L as P	Ascorbic acid	1.8 #	1.8 #	-
Ammonia Nitrogen	mg/L as NH ₃ -N	Titrimetric	20 #	< 0.10 #	-
Sulfide	mg/L as S ²⁻	Iodometric	5.6 #	< 0.10 #	≤ 1.0
Fecal Coliform Bacteria	MPN/100 mL	Thermotolerant (Fecal) Coliform Procedure	7.9 x 10 ⁶ #	2.3 x 10 ⁴ #	-

Sample Characterization	Observation	พารามิเตอร์	ขุ่นมีตะกอน
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Remark : In-house method : TM 020 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 5520 D
 In-house method : TM 023 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 4500-N_{org} B, 4500-NH₃ C
 In-house method : TM 001 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 4500-H⁺ B
 In-house method : TM 016 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D
 Limit of Quantitation : LOQ (SS=10 mg/L, Oil & Grease=2 mg/L, TKN=5 mg/L as N,)
 * It is outside the scope of ISO/IEC 17025
 * อ้างอิงประกาศกระทรวงทรัพยากรธรรมชาติและสิ่งแวดล้อม เรื่อง กำหนดมาตรฐานควบคุมการระบายน้ำทิ้งจากอาคารบางประเภทและบางขนาด (อาคารประเภท ข)

- End Of Report -

Laboratory Staff
 (Miss. Orawan Sritai)
 Chemist
 ว-190-จ-6766

Approved By
 (Mrs. Neeramol Phadungsong)
 General Manager
 ว-190-ค-4128

The results relate only to the items tested. Test report shall not be reproduced except in full, without written approval of the laboratory
 FO.LAB 7.8.1/1 รายงานผลการทดสอบ
 แก้ไขครั้งที่ 0 วันที่บังคับใช้ : 1 พ.ค. 2562 หน้า 1/1



บริษัท ศูนย์วิเคราะห์น้ำ จำกัด
WATER ANALYSIS CENTER COMPANY LIMITED
 1/94 หมู่ 5 ต. คันหนาม อ. อุทัย จ. พระนครศรีอยุธยา 13210
 1/94 Moo 5, T.Kanham, A.U-Thai, Ayutthaya 13210, Thailand
 Tel : 035-226-383 , 035-800-593 Fax : 035-800-594



TESTING
No.0029

ANALYSIS REPORT

Page 1 of 1

Customer Name : นิติบุคคลอาคารชุด ALL SEASONS MANSION
Address : 87/210 ถนนวิทย์ แขวงลุมพินี เขตปทุมวัน กรุงเทพมหานคร 10330
Contact : K. Monton **Phone** : 02-654-1078,084-439-9337 **E.mail** : Monton.Phattano@ap.jil.com
Sample Type : Waste water **Sample Site#** : โครงการ ALL SEASONS MANSION **Sampling Method#** : Grab
Sampling Date# : 29/12/2022 **Sampling By#** : JATUMET (ว-190-จ-0012) **Receive Date** : 29/12/2022
Analysis Date : 29/12/2022-11/01/2023 **Report Date** : 11/01/2023 **Report No.** : R 08640/65

Parameter	Unit	Method	WC 11472/65 น้ำเสียป่อ EQ	WC 11473/65 น้ำเสียป่อ Effluent	Standard *
pH	-	In-house method: TM 001	7.6 (25°C)	7.1 (25°C)	5.0-9.0
BOD	mg/L	In-house method : TM 013	54 #	10 #	≤ 30
Total Suspended Solid	mg/L	APHA, AWWA, WEF Edition 23rd 2017, part 2540 D	14	< 10	≤ 40
Total Dissolved Solid	mg/L	Dried at 103-105 °C	432 #	408 #	≤ 500
Settleable Solids	mL/L	Volumetric	< 0.1 #	< 0.1 #	≤ 0.5
Oil & Grease	mg/L	APHA, AWWA, WEF Edition 23rd 2017, part 5520 D	5	< 2	≤ 20
Total Kjeldahl Nitrogen	mg/L as N	APHA, AWWA, WEF Edition 23rd 2017, part 4500-NorgB, NH ₃ C	46	17	≤ 35
Total Phosphorus	mg/L as P	Ascorbic acid	3.4 #	3.2 #	-
Ammonia Nitrogen	mg/L as NH ₃ -N	Titrimetric	37 #	0.90 #	-
Sulfide	mg/L as S ²⁻	Iodometric	1.3 #	< 0.10 #	≤ 1.0
Fecal Coliform Bacteria	MPN/100 mL	Thermotolerant (Fecal) Coliform Procedure	1.3 x 10 ⁶ #	2.0 x 10 ⁶ #	-

Sample Characterization	Observation	จนมีตะกอน	ใสมีตะกอน
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Remark : In-house method : TM 013 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF 23rd 2017, part 5210B, 4500-O C

In-house method : TM 001 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd 2017, part 4500-H B

Limit of Quantitation : LOQ (BOD=4 mg/L, SS=10 mg/L, Oil & Grease=2 mg/L, TKN=5 mg/L as N,)

* If it is outside the scope of ISO/IEC 17025

* อ้างอิงประกาศกระทรวงทรัพยากรธรรมชาติและสิ่งแวดล้อม เรื่อง กำหนดมาตรฐานควบคุมการระบายน้ำทิ้งจากอาคารบางประเภทและมาตรฐาน (อาคารประเภท ข)

:- End Of Report :-

Laboratory Staff

(Miss. Orawan Sritai)

Chemist

ว-190-จ-0007

Approved By

(Mrs. Neeramol Phadungsong)

General Manager

ว-190-จ-0001

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โรงแรมคอนราด





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1048/2 Soi Sukhumvit 66/1, Sukhumvit Rd., Prakanong Tai, Prakanong, Bangkok 10260 TEL. 0-2744-9911 FAX 0-2393-0165

No. 1998/65

WASTE WATER ANALYSIS REPORT

Date : 23/8/65

Analysis Date : 16/8/65-22/8/65

Customer : บริษัท ออล ซีซั่นส์ พร็อพเพอร์ตี้ส์ จำกัด (โรงแรมคอนราด (สาขาที่ 00001)

Sampling Date : 15/8/65

Address : 87/3 ถนนวิทย์ แขวงจตุจักร เขตปทุมวัน กรุงเทพฯ 10330

Sampling Time : 11.00

Received Date : 16/8/65

Tel : 02-6909591

Reference Number	WP/NM 4071/65			
Parameter	Unit	Influent		Method of Analysis
Appearance		ขุ่นดำมีตะกอน		
pH		@ 26.5 °C = 6.4		Electrometric (SM 2017:4500-H ⁺ B.)
Biochemical Oxygen Demand	(mg/l)	414		5-Day BOD Test, Azide Modification (SM 2017:5210 B.)
Total Suspended Solids	(mg/l)	1147		Dried at 103-105°C (SM 2017:2540 D.)
Oil & Grease	(mg/l)	793.00		Soxhlet Extraction (SM 2017:5520 D.)
Faecal Coliform	(MPN/100ml)	> 16000		Multiple Tube Technique

SM : Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23 rd Edition, 2017.

❖ The results relate only to the samples tested and apply to customer's self-drawn samples only.

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Approved by

(๐/๐ อัญญารัตน์ พลอยกระจ่าง)



บริษัท วิศวกรรมเคมี จำกัด

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1048/2 Soi Sukhumvit 66/1, Sukhumvit Rd., Prakanong Tai, Prakanong, Bangkok 10260 TEL. 0-2744-9911 FAX 0-2393-0165

No. 1999/65

WASTE WATER ANALYSIS REPORT

Date : 23/8/65
 Customer : บริษัท ออด ซีเอ็นที พร็อพเพอร์ตี้ส์ จำกัด (โรงแรมคอนราด สาขาที่ 00001)
 Address : 87/3 ถนนวิทยุ แขวงลุมพินี เขตปทุมวัน กรุงเทพฯ 10330
 Tel : 02-6909591

Analysis Date : 16/8/65-22/8/65
 Sampling Date : 15/8/65
 Sampling Time : 11.05
 Received Date : 16/8/65

Reference Number	WP/NM 4072/65			
Parameter	Unit	Effluent	Standard	Method of Analysis
Appearance		เหลืองค่อนข้างใส		
pH		@ 26.3 °C = 6.6	5-9	Electrometric (SM 2017:4500-H ⁺ B.)
Biochemical Oxygen Demand	(mg/l)	5	< 20	5-Day BOD Test, Azide Modification (SM 2017:5210 B.)
Total Suspended Solids	(mg/l)	21	< 30	Dried at 103-105°C (SM 2017:2540 D.)
Total Dissolved Solids		306	< 500	Dried at 180°C (SM 2017:2540 C.)
Oil & Grease	(mg/l)	< 5.00	< 20	Soxhlet Extraction (SM 2017:5520 D.)
Total Kjeldahl Nitrogen	(mg/l)	1.62	< 35	Macro-Kjeldahl, Titrimetric (SM 2017:4500-N(org) B.)
Sulfide	(mg/l)	Not detected	< 1.0	ZnS Precipitation, Iodometric (SM 2017:4500-S ²⁻ F.)
Settleable Solids	(ml/l)	< 0.5	< 0.5	Imhoff Cone, Volumetric (SM 2017:2540 F.)
Faecal Coliform	(MPN/100 ml)	5400	-	Multiple Tube Technique

SM : Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23 rd Edition, 2017.

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Approved by

(ธีรยุทธธรณ์ พลอยกระจำจ)



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No. 3034/65

WASTE WATER ANALYSIS REPORT

Date : 15/12/65

Analysis Date : 08/12/65-15/12/65

Customer : บริษัท ออล ซีซั่นส์ พร็อพเพอร์ตี้ส์ จำกัด (โรงแรมคอนราด (สาขาที่ 00001)

Sampling Date : 07/12/65

Address : 87/3 ถนนวิฑู แขวงลุมพินี เขตปทุมวัน กรุงเทพฯ 10330

Sampling Time : 10.30

Received Date : 08/12/65

Tel : 02-6909591

Reference Number	WP/NM 5990/65			Method of Analysis
Parameter	Unit	Influent		
Appearance		ขุ่นดำมีตะกอน		
pH		@ 24.8 °C = 6.8		Electrometric (SM 2017:4500-H ⁺ B.)
Biochemical Oxygen Demand	(mg/l)	412		5-Day BOD Test, Azide Modification (SM 2017:5210 B.)
Total Suspended Solids	(mg/l)	700		Dried at 103-105°C (SM 2017:2540 D.)
Oil & Grease	(mg/l)	118.04		Soxhlet Extraction (SM 2017:5520 D.)
Faecal Coliform	(MPN/100ml)	> 16000		Multiple Tube Technique

SM : Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23 rd Edition, 2017.

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Approved by

(ธีณรัตน์ พลอยกระจำจ)



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THAI CHEMICAL & ENGINEERING CO., LTD.

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1048/2 Soi Sukhumvit 66/1, Sukhumvit Rd., Prakanong Tai, Prakanong, Bangkok 10260 TEL. 0-2744-9911 FAX 0-2393-0165

No. 3238/65

WASTE WATER ANALYSIS REPORT

Date : 03/01/66

Analysis Date : 26/12/65-03/01/66

Customer : บริษัท ออล ซีซั่นส์ พร็อพเพอร์ตี้ส์ จำกัด (โรงแรมคอนราด (สาขาที่ 00001)

Sampling Date : 23/12/65

Address : 87/3 ถนนวิทยุ แขวงลุมพินี เขตปทุมวัน กรุงเทพฯ 10330

Sampling Time : 12.30

Received Date : 26/12/65

Tel : 02-6909591

Reference Number	WP/NM 6348/65			
Parameter	Unit	Effluent	Standard	Method of Analysis
Appearance		เหลืองใส		
pH		@ 24.3 °C = 7.1	5-9	Electrometric (SM 2017:4500-H ⁺ B.)
Biochemical Oxygen Demand	(mg/l)	3	< 20	5-Day BOD Test, Azide Modification (SM 2017:5210 B.)
Total Suspended Solids	(mg/l)	< 10	< 30	Dried at 103-105°C (SM 2017:2540 D.)
Total Dissolved Solids		358	< 500	Dried at 180°C (SM 2017:2540 C.)
Oil & Grease	(mg/l)	< 5.00	< 20	Soxhlet Extraction (SM 2017:5520 D.)
Total Kjeldahl Nitrogen	(mg/l)	1.47	< 35	Macro-Kjeldahl, Titrimetric (SM 2017:4500-N(org) B.)
Sulfide	(mg/l)	Not detected	< 1.0	ZnS Precipitation, Iodometric (SM 2017:4500-S ²⁻ F.)
Settleable Solids	(ml/l)	< 0.5	< 0.5	Imhoff Cone, Volumetric (SM 2017:2540 F.)

SM : Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23 rd Edition, 2017.

❖ The results relate only to the samples tested and apply to customer's self-drawn samples only.

❖ This analysis report may not be reproduced other than in full, except with the prior written approval of the technical manager.

Approved by

(ธีฎณารัตน์ พลอยกระจำจ)

คุณภาพน้ำทิ้ง

ที่ระบายออกนอกพื้นที่โครงการ (Manhole)



ANALYSIS REPORT

CUSTOMER NAME : ALL SEASON PROPERTY COMPANY LIMITED
ADDRESS : 19TH FLOOR, M THAI TOWER ALL SEASON PLACE, 87 LUMPHINI PATHUM WAN BANGKOK 10330
CONTACT INFORMATION : TEL : 0 2625 1841 e-mail : Kiatisakp@asp.th.com
SAMPLING SOURCE : WASTEWATER TREATMENT PLANT OF M-THAI BUILDING
SAMPLE TYPE : EFFLUENT
SAMPLING DATE : SEPTEMBER 17, 2022
SAMPLING TIME : 10:20 HOUR
SAMPLING METHOD : GRAB, GRAB AND STERILE TECHNIQUE
SAMPLING BY : MR ACHITA SAENGJAN
ANALYZED BY : MISS AMONRAT PUTTALAE

RECEIVED DATE : SEPTEMBER 17, 2022
ANALYTICAL DATE : SEPTEMBER 17-24, 2022
REPORT NO. : 2022-U075644
WORK NO. : 2022-000786
ANALYSIS NO. : T22AS429-0007

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			EXIT GATE T22AS429-0007		
pH ^c	-	ELECTROMETRIC METHOD AT SITE (SM:4500-H ⁺ B)	7.3 (32°C)	5-9	-
BIOCHEMICAL OXYGEN DEMAND ^c	mg/L	AZIDE MODIFICATION METHOD (SM: 4500-O ₂ C AND 5210 B)	49.5	≤ 30	2.0
SUSPENDED SOLIDS ^a	mg/L	SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: 2540 D)	61.6	≤ 40	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	322	500*	25
SETTLABLE SOLIDS ^d	mL/L	IMHOFF CONE (SM: 2540 F)	< 0.1	≤ 0.5	0.1
AMMONIA-NITROGEN ^b	mg/L NH ₃ -N	KJELDAHL METHOD (SM: 4500-NH ₃ B AND 4500-NH ₃ C)	50.0	-	1.5
PHOSPHATE ^c	mg/L PO ₄ ³⁻	ASCORBIC ACID METHOD (SM: 4500-P E)	12.7	-	0.03
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	61.2	≤ 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
			EXIT GATE T22AS429-0007		
MICROBIOLOGY					
FAECAL COLIFORM BACTERIA ^b	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: 9221 E)	>160,000	-	1.8
SAMPLE CONDITION					
WATER'S COLOUR/TURBID SEDIMENT			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.

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.

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.

COMMENT : ALL TESTED PARAMETERS ARE COMPLIED WITH REGULATORY STANDARD EXCEPT BIOCHEMICAL OXYGEN DEMAND,
SUSPENDED SOLIDS AND TOTAL KJELDAHL NITROGEN. FOR FAECAL COLIFORM BACTERIA, IT SHOULD BE DISINFECTED
BEFORE DISCHARGING INTO THE PUBLIC WATERWAY ALTHOUGH REGULATORY STANDARD IS NOT NOTIFIED.

(MRS PIYAPAT SUTTAMANUTWONG)
LABORATORY SUPERVISOR

SEPTEMBER 29, 2022

ANALYSIS REPORT

CUSTOMER NAME : ALL SEASON PROPERTY COMPANY LIMITED
ADDRESS : 19TH FLOOR, M THAI TOWER ALL SEASON PLACE, 87 LUMPHINI PATHUM WAN BANGKOK 10330
CONTACT INFORMATION : TEL : 0 2625 1841 e-mail : Kiatisakp@asp.th.com
SAMPLING SOURCE : WASTEWATER TREATMENT PLANT OF CAPITAL TOWER
SAMPLE TYPE : EFFLUENT
SAMPLING DATE : SEPTEMBER 17, 2022
SAMPLING TIME : 10:40 HOUR
SAMPLING METHOD ^c : GRAB, GRAB AND STERILE TECHNIQUE
SAMPLING BY ^c : MR ACHITA SAENGJAN
ANALYZED BY : MISS AMONRAT PUTTALAE

RECEIVED DATE : SEPTEMBER 17, 2022
ANALYTICAL DATE : SEPTEMBER 17-24, 2022
REPORT NO. : 2022-U075646
WORK NO. : 2022-000786
ANALYSIS NO. : T22AS429-0008

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			ENTRANCE GATE T22AS429-0008		
pH ^c	-	ELECTROMETRIC METHOD AT SITE (SM:4500-H ⁺ B)	7.5 (32°C)	5-9	-
BIOCHEMICAL OXYGEN DEMAND ^c	mg/L	AZIDE MODIFICATION METHOD (SM: 4500-O ₂ C AND 5210 B)	ND	≤ 30	2.0
SUSPENDED SOLIDS ^a	mg/L	SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: 2540 D)	ND	≤ 40	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	278	500*	25
SETTLABLE SOLIDS ^c	mL/L	IMHOFF CONE (SM: 2540 F)	< 0.1	≤ 0.5	0.1
AMMONIA-NITROGEN ^b	mg/L NH ₃ -N	KJELDAHL METHOD (SM: 4500-NH ₃ B AND 4500-NH ₃ C)	ND	-	1.5
PHOSPHATE ^c	mg/L PO ₄ ³⁻	ASCORBIC ACID METHOD (SM: 4500-P E)	0.12	-	0.03
SULPHIDE ^d	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	< LOQ	≤ 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
			ENTRANCE GATE T22AS429-0008		
MICROBIOLOGY					
FAECAL COLIFORM BACTERIA ^b	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: 9221 E)	< 1.8	-	1.8
SAMPLE CONDITION					
WATER'S COLOUR/TURBID SEDIMENT			YELLOW/CI FAR YF110W		

^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 B, 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

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

COMMENT : ALL TESTED PARAMETERS ARE COMPLIED WITH REGULATORY STANDARD. FOR FAECAL COLIFORM BACTERIA, IT SHOULD BE
DISINFECTED BEFORE DISCHARGING INTO THE PUBLIC WATERWAY ALTHOUGH REGULATORY STANDARD IS NOT NOTIFIED.

(MRS PIYAPAT SUTTAMANUTWONG)
LABORATORY SUPERVISOR

SEPTEMBER 29, 2022

ANALYSIS REPORT

CUSTOMER NAME : ALL SEASON PROPERTY COMPANY LIMITED
ADDRESS : 19TH FLOOR, M THAI TOWER ALL SEASON PLACE, 87 LUMPHINI PATHUM WAN BANGKOK 10330
CONTACT INFORMATION : TEL : 0 2625 1841 e-mail : Kiatisakp@asp.th.com
SAMPLING SOURCE : WASTEWATER TREATMENT PLANT OF M-THAI BUILDING
SAMPLE TYPE : EFFLUENT **RECEIVED DATE** : DECEMBER 17, 2022
SAMPLING DATE : DECEMBER 17, 2022 **ANALYTICAL DATE** : DECEMBER 17-26, 2022
SAMPLING TIME : 10:55 HOUR **REPORT NO.** : 2022-U103444
SAMPLING METHOD ^c : GRAB, GRAB AND STERILE TECHNIQUE **WORK NO.** : 2022-000786
SAMPLING BY ^c : MR PHATSAWUT THOSAKOON **ANALYSIS NO.** : T22AZ248-0007
ANALYZED BY : MISS AMONRAT PUTTALEE

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			EXIT GATE T22AZ248-0007		
pH ^c	-	ELECTROMETRIC METHOD AT SITE (SM:4500-H ⁺ B)	7.3 (30°C)	5-9	-
BIOCHEMICAL OXYGEN DEMAND ^c	mg/L	AZIDE MODIFICATION METHOD (SM: 4500-O C AND 5210 B)	36.7	≤ 30	2.0
SUSPENDED SOLIDS ^a	mg/L	SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: 2540 D)	33.2	≤ 40	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	414	500*	25
SETTLEABLE SOLIDS ^c	mL/L	IMHOFF CONE (SM: 2540 F)	< 0.1	≤ 0.5	0.1
AMMONIA-NITROGEN ^b	mg/L NH ₃ -N	KJELDAHL METHOD (SM: 4500-NH ₃ B AND 4500-NH ₃ C)	46.2	-	1.5
PHOSPHATE ^c	mg/L PO ₄ ³⁻	ASCORBIC ACID METHOD (SM: 4500-P E)	13.3	-	0.03
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	53.0	≤ 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
			EXIT GATE T22AZ248-0007		
MICROBIOLOGY					
FAECAL COLIFORM BACTERIA ^b	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: 9221 E)	>160,000	-	1.8
SAMPLE CONDITION					
WATER'S COLOUR/TURBID			GREY/TURBID		
SEDIMENT			GREY		

^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 B, 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.

COMMENT : ALL TESTED PARAMETERS ARE COMPLIED WITH REGULATORY STANDARD EXCEPT BIOCHEMICAL OXYGEN DEMAND
AND TOTAL KJELDAHL NITROGEN. FOR FAECAL COLIFORM BACTERIA, IT SHOULD BE DISINFECTED BEFORE DISCHARGING
INTO THE PUBLIC WATERWAY ALTHOUGH REGULATORY STANDARD IS NOT NOTIFIED.

(MISS BENJAWAN VIRIYOTHA)

LABORATORY SUPERVISOR

DECEMBER 29, 2022

ANALYSIS REPORT

CUSTOMER NAME : ALL SEASON PROPERTY COMPANY LIMITED
ADDRESS : 19TH FLOOR, M THAI TOWER ALL SEASON PLACE, 87 LUMPHINI PATHUM WAN BANGKOK 10330
CONTACT INFORMATION : TEL : 0 2625 1841 e-mail : Kiatisakp@asp.th.com
SAMPLING SOURCE : WASTEWATER TREATMENT PLANT OF CAPITAL TOWER
SAMPLE TYPE : EFFLUENT
SAMPLING DATE : DECEMBER 17, 2022
SAMPLING TIME : 11:07 HOUR
SAMPLING METHOD ° : GRAB, GRAB AND STERILE TECHNIQUE
SAMPLING BY ° : MR PHATSAWUT THOSAKOON
ANALYZED BY : MISS AMONRAT PUTTALEE

RECEIVED DATE : DECEMBER 17, 2022
ANALYTICAL DATE : DECEMBER 17-26, 2022
REPORT NO. : 2022-U103446
WORK NO. : 2022-000786
ANALYSIS NO. : T22AZ248-0008

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			ENTRANCE GATE T22AZ248-0008		
pH °	-	ELECTROMETRIC METHOD AT SITE (SM:4500-H° B)	7.4 (29°C)	5-9	-
BIOCHEMICAL OXYGEN DEMAND °	mg/L	AZIDE MODIFICATION METHOD (SM: 4500-O C AND 5210 B)	ND	≤ 30	2.0
SUSPENDED SOLIDS °	mg/L	SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: 2540 D)	ND	≤ 40	5.0
TOTAL DISSOLVED SOLIDS °	mg/L	IN-HOUSE METHOD: UAE.TP.WAO.007 (TOTAL DISSOLVED SOLIDS DRIED AT 103-105 °C); SM 2540 C	298	500*	25
SETTLEABLE SOLIDS °	mL/L	IMHOFF CONE (SM: 2540 F)	< 0.1	≤ 0.5	0.1
AMMONIA-NITROGEN °	mg/L NH ₃ -N	KJELDAHL METHOD (SM: 4500-NH ₃ B AND 4500-NH ₃ C)	3.4	-	1.5
PHOSPHATE °	mg/L PO ₄ ³⁻	ASCORBIC ACID METHOD (SM: 4500-P E)	1.84	-	0.03
SULPHIDE °	mg/L	IODOMETRIC METHOD (SM: 4500-S ²⁻ F)	< 0.50	≤ 1.0	0.50
TOTAL KJELDAHL NITROGEN °	mg/L	IN-HOUSE METHOD: UAE.TP.WAS.001 (KJELDAHL METHOD); SM: 4500-Norg C	7.0	≤ 35	1.5
FAT, OIL AND GREASE °	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: 5520 B)	ND	≤ 20	3



PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			ENTRANCE GATE T22AZ248-0008		
MICROBIOLOGY					
FAECAL COLIFORM BACTERIA ^b	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: 9221 E)	46	-	1.8
SAMPLE CONDITION					
WATER'S COLOUR/TURBID			YELLOW/CLEAR		
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 B, 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.

COMMENT : ALL TESTED PARAMETERS ARE COMPLIED WITH REGULATORY STANDARD. FOR FAECAL COLIFORM BACTERIA, IT SHOULD BE DISINFECTED BEFORE DISCHARGING INTO THE PUBLIC WATERWAY ALTHOUGH REGULATORY STANDARD IS NOT NOTIFIED.

(MISS BENJAWAN VIRIYOTHA)

LABORATORY SUPERVISOR

DECEMBER 29, 2022