

ภาคผนวก จ

ใบรายงานผลการวิเคราะห์ (Analysis Report)

ภาคผนวก จ-1
คุณภาพน้ำทิ้ง

ANALYSIS REPORT

CUSTOMER NAME : ALOFT BANGKOK SUKHUMVIT 11
ADDRESS : 35 SUKHUMVIT SOI 11 (CHAIYOT), SUKHUMVIT ROAD, KHLONG TOEI NUEA WATTHANA BANGKOK 10110
CONTACT INFORMATION : [REDACTED]
SAMPLING SOURCE : WASTEWATER TREATMENT PLANT
SAMPLE TYPE : WASTEWATER
SAMPLING DATE : JANUARY 9, 2024
SAMPLING TIME : 1/
SAMPLING METHOD : GRAB
SAMPLING BY : [REDACTED]
ANALYZED BY : [REDACTED]

RECEIVED DATE : JANUARY 9, 2024
ANALYTICAL DATE : JANUARY 9-16, 2024
ISSUE DATE : JANUARY 22, 2024
REPORT NO. : 2024-U005689
WORK NO. : 2023-010065
ANALYSIS NO. : T24AA389-0012 - T24AA389-0013

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT		REGULATORY STANDARD	DETECTION LIMIT
			1 14:40 HOUR 1/ T24AA389-0012	2 14:35 HOUR 1/ T24AA389-0013		
pH ^a	-	ELECTROMETRIC METHOD (AT SITE) SM: PART 4500-H ⁺ B AND 1060 B	7.4 (29°C)	8.2 (28°C)	5-9	-
BIOCHEMICAL OXYGEN DEMAND ^a	mg/L	MEMBRANE ELECTRODE METHOD (SM: PART 5210 B AND PART 4500-O G)	224	15.6	≤ 20	2.0
SUSPENDED SOLIDS ^a	mg/L	SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: PART 2540 D)	553	7.6	≤ 30	5.0
TOTAL DISSOLVED SOLIDS ^b	mg/L	IN-HOUSE METHOD: UAE.TP.WAO.007 (TOTAL DISSOLVED SOLIDS DRIED AT 103-105 °C); SM: PART 2540 C	482	403	500*	25
SETTLEABLE SOLIDS ^c	mL/L	IMHOFF CONE (SM: PART 2540 F)	13.0	< 0.1	≤ 0.5	0.1
SULPHIDE ^b	mg/L	IODOMETRIC METHOD (SM: PART 4500-S ₂ ⁻ F)	2.8	< 0.50	≤ 1.0	0.50
TOTAL KJELDAHL NITROGEN ^b	mg/L	IN-HOUSE METHOD: UAE.TP.WAS.001 (KJELDAHL METHOD); SM: PART 4500-Norg C	95.1	12.4	≤ 35	1.5
FAT, OIL AND GREASE ^c	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: PART 5520 B)	171	ND	≤ 20	3
RESIDUAL CHLORINE ^c	mg/L Cl ₂	DPD FERROUS TITRIMETRIC METHOD (SM: PART 4500-Cl F)	ND	ND	-	0.1



PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT		REGULATORY STANDARD	DETECTION LIMIT
			1 14:40 HOUR 1/ T24AA389-0012	2 14:35 HOUR 1/ T24AA389-0013		
MICROBIOLOGY						
COLIFORM BACTERIA °	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: PART 9221 B AND C)	>160,000	3,500	-	1.8
SAMPLE CONDITION						
WATER'S COLOUR/TURBID			BROWN/TURBID	YELLOW/TURBID		
SEDIMENT			BROWN	BROWN		

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

^b : ISO/IEC 17025 ACCREDITED BY DEPARTMENT OF SCIENCE SERVICE (DSS)

^c : VERIFIED BY OWN LABORATORY QUALITY SYSTEM, BUT STILL NOT ACCREDITED

IN-HOUSE : BASED ON STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 23rd EDITION, 2017.

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

RESULT 1 : INFLUENT

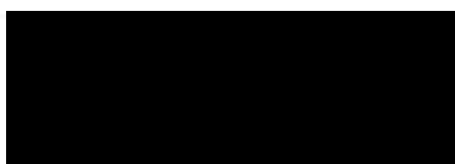
RESULT 2 : EFFLUENT

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

500* : PERMITTED EXCESS VALUE TO TOTAL DISSOLVED SOLIDS OF ACTUAL TAP WATER USED.

ND : NON-DETECTABLE.

COMMENT : ALL TESTED PARAMETERS OF THE EFFLUENT ARE COMPLIED WITH REGULATORY STANDARD.



ANALYSIS REPORT

CUSTOMER NAME : ALOFT BANGKOK SUKHUMVIT 11
ADDRESS : 35 SUKHUMVIT SOI 11 (CHAIYOT), SUKHUMVIT ROAD, KHLONG TOEI NUEA WATTHANA BANGKOK 10110
CONTACT INFORMATION : [REDACTED]
SAMPLING SOURCE : WASTEWATER TREATMENT PLANT
SAMPLE TYPE : WASTEWATER
SAMPLING DATE : FEBRUARY 13, 2024
SAMPLING TIME : 1/
SAMPLING METHOD : GRAB
SAMPLING BY : [REDACTED]
ANALYZED BY : [REDACTED]
RECEIVED DATE : FEBRUARY 13, 2024
ANALYTICAL DATE : FEBRUARY 13-20, 2024
ISSUE DATE : MARCH 1, 2024
REPORT NO. : 2024-U017372
WORK NO. : 2023-010065
ANALYSIS NO. : T24AC869-0004 - T24AC869-0005

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT		REGULATORY STANDARD	DETECTION LIMIT
			1 13:55 HOUR 1/ T24AC869-0004	2 13:50 HOUR 1/ T24AC869-0005		
pH ^a	-	ELECTROMETRIC METHOD (AT SITE) SM: PART 4500-H ⁺ B AND 1060 B	7.0 (31°C)	7.5 (30°C)	5-9	-
RESIDUAL CHLORINE ^c	mg/L Cl ₂	MODIFIED DPD COLOURIMETRIC METHOD (AT SITE)	ND	ND	-	0.1
BIOCHEMICAL OXYGEN DEMAND ^c	mg/L	MEMBRANE ELECTRODE METHOD (SM: PART 5210 B AND PART 4500-O G)	361	4.4	≤ 20	2.0
SUSPENDED SOLIDS ^a	mg/L	SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: PART 2540 D)	729	7.3	≤ 30	5.0
TOTAL DISSOLVED SOLIDS ^b	mg/L	IN-HOUSE METHOD: UAE.TP.WAO.007 (TOTAL DISSOLVED SOLIDS DRIED AT 103-105 °C); SM: PART 2540 C	550	368	500*	25
SETTLEABLE SOLIDS ^c	mL/L	IMHOFF CONE (SM: PART 2540 F)	37.0	< 0.1	≤ 0.5	0.1
SULPHIDE ^c	mg/L	IODOMETRIC METHOD (SM: PART 4500-S ₂ ⁻ F)	3.2	< 0.50	≤ 1.0	0.50
TOTAL KJELDAHL NITROGEN ^b	mg/L	IN-HOUSE METHOD: UAE.TP.WAS.001 (KJELDAHL METHOD); SM: PART 4500-Norg C	138	10.1	≤ 35	1.5
FAT, OIL AND GREASE ^c	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: PART 5520 B)	61	ND	≤ 20	3



PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT		REGULATORY STANDARD	DETECTION LIMIT
			1 13:55 HOUR 1/ T24AC869-0004	2 13:50 HOUR 1/ T24AC869-0005		
MICROBIOLOGY						
COLIFORM BACTERIA ^b	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: PART 9221 B)	>160,000	1,700	-	1.8
SAMPLE CONDITION						
WATER'S COLOUR/TURBID			BROWN/TURBID	YELLOW/TURBID		
SEDIMENT			BROWN	BROWN		

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

^b : ISO/IEC 17025 ACCREDITED BY DEPARTMENT OF SCIENCE SERVICE (DSS)

^c : VERIFIED BY OWN LABORATORY QUALITY SYSTEM, BUT STILL NOT ACCREDITED

IN-HOUSE : BASED ON STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 23rd EDITION, 2017.

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

RESULT 1 : INFLUENT WATER

RESULT 2 : EFFLUENT WATER

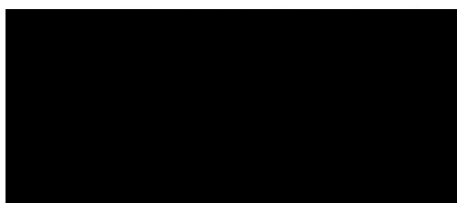
REGULATORY STANDARD : RANGE OR MAXIMUM PERMITTED VALUE FOR BUILDING EFFLUENT STANDARDS CLASS A, NOTIFICATION OF THE
MINISTRY OF RESOURCES AND ENVIRONMENT, PUBLISHED IN THE ROYAL GOVERNMENT GAZETTE, VOL 122,
PART 125 D, DATED DECEMBER 29, 2005 AND VOL 139 SPECIAL PART 171 D, DATED JULY 21, 2022.

500* : PERMITTED EXCESS VALUE TO TOTAL DISSOLVED SOLIDS OF ACTUAL TAP WATER USED.

BIOCHEMICAL OXYGEN DEMAND (T24AC869-0005) : ADDITION OF NITRIFICATION INHIBITION (TCMP) FOLLOW TO THE SM: 5210B,5(e).

ND : NON-DETECTABLE.

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



ANALYSIS REPORT

CUSTOMER NAME : ALOFT BANGKOK SUKHUMVIT 11
ADDRESS : 35 SUKHUMVIT SOI 11 (CHAIYOT), SUKHUMVIT ROAD, KHLONG TOEI NUEA WATTHANA BANGKOK 10110
CONTACT INFORMATION : [REDACTED]
SAMPLING SOURCE : WASTEWATER TREATMENT PLANT
SAMPLE TYPE : WASTEWATER
SAMPLING DATE : MARCH 8, 2024
SAMPLING TIME : 1/
SAMPLING METHOD : GRAB
SAMPLING BY : [REDACTED]
ANALYZED BY : [REDACTED]

RECEIVED DATE : MARCH 8, 2024
ANALYTICAL DATE : MARCH 8-16, 2024
ISSUE DATE : MARCH 18, 2024
REPORT NO. : 2024-U022297
WORK NO. : 2023-010065
ANALYSIS NO. : T24AE893-0004 - T24AE893-0005

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT		REGULATORY STANDARD	DETECTION LIMIT
			1 14:55 HOUR 1/ T24AE893-0004	2 14:50 HOUR 1/ T24AE893-0005		
pH ^a	-	ELECTROMETRIC METHOD (AT SITE) SM: PART 4500-H ⁺ B AND 1060 B	6.8 (30°C)	7.2 (30°C)	5-9	-
RESIDUAL CHLORINE ^c	mg/L Cl ₂	MODIFIED DPD COLOURIMETRIC METHOD (AT SITE)	ND	ND	-	0.1
BIOCHEMICAL OXYGEN DEMAND ^c	mg/L	MEMBRANE ELECTRODE METHOD (SM: PART 5210 B AND PART 4500-O G)	220	5.1	≤ 20	2.0
SUSPENDED SOLIDS ^c	mg/L	SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: PART 2540 D)	574	ND	≤ 30	5.0
TOTAL DISSOLVED SOLIDS ^b	mg/L	IN-HOUSE METHOD: UAE.TP.WAO.007 (TOTAL DISSOLVED SOLIDS DRIED AT 103-105 °C); SM: PART 2540 C	530	392	500*	25
SETTLEABLE SOLIDS ^c	mL/L	IMHOFF CONE (SM: PART 2540 F)	11.0	< 0.1	≤ 0.5	0.1
SULPHIDE ^b	mg/L	IODOMETRIC METHOD (SM: PART 4500-S ₂ -F)	3.0	< 0.50	≤ 1.0	0.50
TOTAL KJELDAHL NITROGEN ^b	mg/L	IN-HOUSE METHOD: UAE.TP.WAS.001 (KJELDAHL METHOD); SM: PART 4500-Norg C	114	14.3	≤ 35	1.5
FAT, OIL AND GREASE ^c	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: PART 5520 B)	73	ND	≤ 20	3



PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT		REGULATORY STANDARD	DETECTION LIMIT
			1 14:55 HOUR 1/ T24AE893-0004	2 14:50 HOUR 1/ T24AE893-0005		
MICROBIOLOGY						
COLIFORM BACTERIA ^b	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: PART 9221 B)	>160,000	>160,000	-	1.8
SAMPLE CONDITION						
WATER'S COLOUR/TURBID			GREY/TURBID	YELLOW/CLEAR		
SEDIMENT			GREY	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 : INFLUENT WATER

RESULT 2 : EFFLUENT WATER

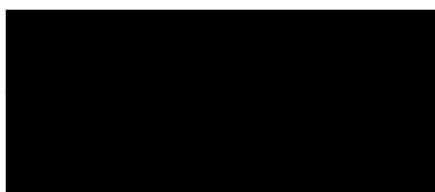
REGULATORY STANDARD : RANGE OR MAXIMUM PERMITTED VALUE FOR BUILDING EFFLUENT STANDARDS CLASS A, NOTIFICATION OF THE
MINISTRY OF RESOURCES AND ENVIRONMENT, PUBLISHED IN THE ROYAL GOVERNMENT GAZETTE, VOL 122,
PART 125 D, DATED DECEMBER 29, 2005 AND VOL 139 SPECIAL PART 171 D, DATED JULY 21, 2022.

500* : PERMITTED EXCESS VALUE TO TOTAL DISSOLVED SOLIDS OF ACTUAL TAP WATER USED.

BIOCHEMICAL OXYGEN DEMAND (T24AE893-0005) : ADDITION OF NITRIFICATION INHIBITION (TCMP) FOLLOW TO THE SM: 5210B,5(e).

ND : NON-DETECTABLE.

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



ANALYSIS REPORT

CUSTOMER NAME : ALOFT BANGKOK SUKHUMVIT 11
ADDRESS : 35 SUKHUMVIT SOI 11 (CHAIYOT), SUKHUMVIT ROAD, KHLONG TOEI NUEA WATTHANA BANGKOK 10110
CONTACT INFORMATION :
SAMPLING SOURCE : -
SAMPLE TYPE : WATER SUPPLY
SAMPLING DATE : MARCH 8, 2024
SAMPLING TIME : 15:00 HOUR
SAMPLING METHOD ^c : GRAB
SAMPLING BY ^c :
ANALYZED BY :
RECEIVED DATE : MARCH 8, 2024
ANALYTICAL DATE : MARCH 8-12, 2024
ISSUE DATE : MARCH 18, 2024
REPORT NO. : 2024-U022299
WORK NO. : 2023-010065
ANALYSIS NO. : T24AE893-0006

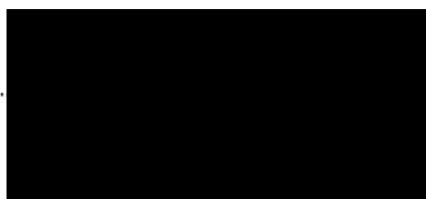
PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT
			WATER SUPPLY T24AE893-0006	
TOTAL DISSOLVED SOLIDS ^b	mg/L	TOTAL DISSOLVED SOLIDS DRIED AT 180 °C (SM: PART 2540 C)	267	25
SAMPLE CONDITION WATER'S COLOUR/TURBID SEDIMENT			COLOURLESS/CLEAR -	

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

^b : ISO/IEC 17025 ACCREDITED BY DEPARTMENT OF SCIENCE SERVICE (DSS)

^c : VERIFIED BY OWN LABORATORY QUALITY SYSTEM, BUT STILL NOT ACCREDITED

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



ANALYSIS REPORT

CUSTOMER NAME : ALOFT BANGKOK SUKHUMVIT 11
ADDRESS : 35 SUKHUMVIT SOI 11 (CHAIYOT), SUKHUMVIT ROAD, KHLONG TOEI NUEA WATTHANA BANGKOK 10110
CONTACT INFORMATION : [REDACTED]
SAMPLING SOURCE : WASTEWATER TREATMENT PLANT
SAMPLE TYPE : WASTEWATER
SAMPLING DATE : APRIL 9, 2024
SAMPLING TIME : 1/
SAMPLING METHOD : GRAB
SAMPLING BY : [REDACTED]
ANALYZED BY : [REDACTED]

RECEIVED DATE : APRIL 9, 2024
ANALYTICAL DATE : APRIL 9-22, 2024
ISSUE DATE : MAY 3, 2024
REPORT NO. : 2024-U037145
WORK NO. : 2023-010065
ANALYSIS NO. : T24AH590-0004 - T24AH590-0005

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT		REGULATORY STANDARD	DETECTION LIMIT
			1 14:30 HOUR 1/ T24AH590-0004	2 14:35 HOUR 1/ T24AH590-0005		
pH	-	ELECTROMETRIC METHOD (AT SITE) SM: PART 4500-H ⁺ B AND 1060 B	7.0 (31°C)	7.5 (32°C)	5-9	-
RESIDUAL CHLORINE	mg/L Cl ₂	MODIFIED DPD COLOURIMETRIC METHOD (AT SITE)	ND	ND	-	0.1
BIOCHEMICAL OXYGEN DEMAND	mg/L	MEMBRANE ELECTRODE METHOD (SM: PART 5210 B AND PART 4500-O G)	372	31.4	≤ 20	2.0
SUSPENDED SOLIDS	mg/L	SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: PART 2540 D)	916	5.1	≤ 30	5.0
TOTAL DISSOLVED SOLIDS	mg/L	IN-HOUSE METHOD: UAE.TP.WAO.007 (TOTAL DISSOLVED SOLIDS DRIED AT 103-105 °C); SM: PART 2540 C	600	541	500*	25
SETTLEABLE SOLIDS	mL/L	IMHOFF CONE (SM: PART 2540 F)	48.0	< 0.1	≤ 0.5	0.1
SULPHIDE	mg/L	IODOMETRIC METHOD (SM: PART 4500-S ₂ -F)	5.4	< 0.50	≤ 1.0	0.50
TOTAL KJELDAHL NITROGEN	mg/L	IN-HOUSE METHOD: UAE.TP.WAS.001 (KJELDAHL METHOD); SM: PART 4500-Norg C	197	8.2	≤ 35	1.5
FAT, OIL AND GREASE	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: PART 5520 B)	99	3	≤ 20	3



PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT		REGULATORY STANDARD	DETECTION LIMIT
			1 14:30 HOUR 1/ T24AH590-0004	2 14:35 HOUR 1/ T24AH590-0005		
MICROBIOLOGY						
COLIFORM BACTERIA	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: PART 9221B)	>160,000	>160,000	-	1.8
SAMPLE CONDITION						
WATER'S COLOUR/TURBID			BLACK/TURBID	YELLOW/CLEAR		
SEDIMENT			BLACK	BROWN		

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 WATER

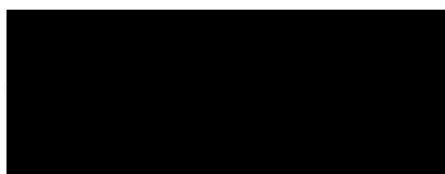
RESULT 2 : EFFLUENT WATER

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

500* : PERMITTED EXCESS VALUE TO TOTAL DISSOLVED SOLIDS OF ACTUAL TAP WATER USED.

ND : NON-DETECTABLE.

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



ANALYSIS REPORT

CUSTOMER NAME : ALOFT BANGKOK SUKHUMVIT 11
ADDRESS : 35 SUKHUMVIT SOI 11 (CHAIYOT), SUKHUMVIT ROAD, KHLONG TOEI NUEA WATTANA BANGKOK 10110
CONTACT INFORMATION :
SAMPLING SOURCE : -
SAMPLE TYPE : WATER SUPPLY
SAMPLING DATE : APRIL 9, 2024
SAMPLING TIME : 14:40 HOUR
SAMPLING METHOD ^c : GRAB
SAMPLING BY ^c :
ANALYZED BY :
RECEIVED DATE : APRIL 9, 2024
ANALYTICAL DATE : APRIL 9-11, 2024
ISSUE DATE : APRIL 17, 2024
REPORT NO. : 2024-U031342
WORK NO. : 2023-010065
ANALYSIS NO. : T24AH590-0006

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT
			WATER SUPPLY T24AH590-0006	
TOTAL DISSOLVED SOLIDS ^b	mg/L	TOTAL DISSOLVED SOLIDS DRIED AT 180 °C (SM: PART 2540 C)	192	25
SAMPLE CONDITION WATER'S COLOUR/TURBID SEDIMENT			COLOURLESS/CLEAR -	

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

^b : ISO/IEC 17025 ACCREDITED BY DEPARTMENT OF SCIENCE SERVICE (DSS)

^c : VERIFIED BY OWN LABORATORY QUALITY SYSTEM, BUT STILL NOT ACCREDITED

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



ANALYSIS REPORT

CUSTOMER NAME : ALOFT BANGKOK SUKHUMVIT 11
ADDRESS : 35 SUKHUMVIT SOI 11 (CHAIYOT), SUKHUMVIT ROAD, KHLONG TOEI NUEA WATTHANA BANGKOK 10110
CONTACT INFORMATION :
SAMPLING SOURCE : WASTEWATER TREATMENT PLANT
SAMPLE TYPE : EFFLUENT
SAMPLING DATE : MAY 13, 2024
SAMPLING TIME : 11:00 HOUR
SAMPLING METHOD : GRAB
SAMPLING BY :
ANALYZED BY :
RECEIVED DATE : MAY 13, 2024
ANALYTICAL DATE : MAY 13-20, 2024
ISSUE DATE : MAY 21, 2024
REPORT NO. : 2024-U043631
WORK NO. : 2024-004681
ANALYSIS NO. : T24AK066-0001

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			EFFLUENT WATER T24AK066-0001		
BIOCHEMICAL OXYGEN DEMAND	mg/L	MEMBRANE ELECTRODE METHOD (SM: PART 5210 B AND PART 4500-O G)	15.8	≤ 20	2.0
SAMPLE CONDITION WATER'S COLOUR/TURBID SEDIMENT			YELLOW/CLEAR BROWN		

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

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

COMMENT : PARAMETER ANALYSED OF THE EFFLUENT IS COMPLIED WITH REGULATORY STANDARD.



ANALYSIS REPORT

CUSTOMER NAME : ALOFT BANGKOK SUKHUMVIT 11
ADDRESS : 35 SUKHUMVIT SOI 11 (CHAIYOT), SUKHUMVIT ROAD, KHLONG TOEI NUEA WATTHANA BANGKOK 10110
CONTACT INFORMATION : [REDACTED]
SAMPLING SOURCE : WASTEWATER TREATMENT PLANT
SAMPLE TYPE : WASTEWATER
SAMPLING DATE : MAY 14, 2024
SAMPLING TIME : 1/
SAMPLING METHOD : GRAB
SAMPLING BY : [REDACTED]
ANALYZED BY : [REDACTED]

RECEIVED DATE : MAY 14, 2024
ANALYTICAL DATE : MAY 14-27, 2024
ISSUE DATE : MAY 29, 2024
REPORT NO. : 2024-U046277
WORK NO. : 2023-010065
ANALYSIS NO. : T24AK154-0003 - T24AK154-0004

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT		REGULATORY STANDARD	DETECTION LIMIT
			1 13:30 HOUR 1/ T24AK154-0003	2 13:25 HOUR 1/ T24AK154-0004		
pH	-	ELECTROMETRIC METHOD (AT SITE) SM: PART 4500-H ⁺ B AND 1060 B	6.7 (32°C)	7.5 (31°C)	5-9	-
BIOCHEMICAL OXYGEN DEMAND	mg/L	MEMBRANE ELECTRODE METHOD (SM: PART 5210 B AND PART 4500-O G)	656	5.6	≤ 20	2.0
SUSPENDED SOLIDS	mg/L	SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: PART 2540 D)	1,941	ND	≤ 30	5.0
TOTAL DISSOLVED SOLIDS	mg/L	IN-HOUSE METHOD: UAE.TP.WAO.007 (TOTAL DISSOLVED SOLIDS DRIED AT 103-105 °C); SM: PART 2540 C	441	405	500*	25
SETTLEABLE SOLIDS	mL/L	IMHOFF CONE (SM: PART 2540 F)	70.0	< 0.1	≤ 0.5	0.1
RESIDUAL CHLORINE	mg/L Cl ₂	MODIFIED DPD COLOURIMETRIC METHOD (AT SITE)	ND	ND	-	0.1
SULPHIDE	mg/L	IODOMETRIC METHOD (SM: PART 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: PART 4500-Norg C	119	7.8	≤ 35	1.5
FAT, OIL AND GREASE	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: PART 5520 B)	135	ND	≤ 20	3



PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT		REGULATORY STANDARD	DETECTION LIMIT
			1 13:30 HOUR 1/ T24AK154-0003	2 13:25 HOUR 1/ T24AK154-0004		
MICROBIOLOGY						
COLIFORM BACTERIA	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: PART 9221 B)	>160,000	>160,000	-	1.8
SAMPLE CONDITION						
WATER'S COLOUR/TURBID			BLACK/TURBID	YELLOW/CLEAR		
SEDIMENT			BLACK	YELLOW		

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 WATER

RESULT 2 : EFFLUENT WATER

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

500* : PERMITTED EXCESS VALUE TO TOTAL DISSOLVED SOLIDS OF ACTUAL TAP WATER USED.

ND : NON-DETECTABLE.

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

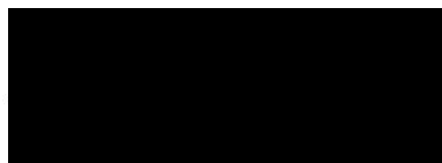


ANALYSIS REPORT

CUSTOMER NAME : ALOFT BANGKOK SUKHUMVIT 11
ADDRESS : 35 SUKHUMVIT SOI 11 (CHAIYOT), SUKHUMVIT ROAD, KHLONG TOEI NUEA WATTHANA BANGKOK 10110
CONTACT INFORMATION :
SAMPLING SOURCE : -
SAMPLE TYPE : WATER SUPPLY
SAMPLING DATE : MAY 14, 2024
SAMPLING TIME : 13:20 HOUR
SAMPLING METHOD : GRAB
SAMPLING BY :
ANALYZED BY :
RECEIVED DATE : MAY 14, 2024
ANALYTICAL DATE : MAY 14-18, 2024
ISSUE DATE : MAY 21, 2024
REPORT NO. : 2024-U043870
WORK NO. : 2023-010065
ANALYSIS NO. : T24AK154-0005

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT
			WATER SUPPLY T24AK154-0005	
TOTAL DISSOLVED SOLIDS	mg/L	TOTAL DISSOLVED SOLIDS DRIED AT 180 °C (SM: PART 2540 C)	316	25
SAMPLE CONDITION WATER'S COLOUR/TURBID SEDIMENT			COLOURLESS/CLEAR -	

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



ANALYSIS REPORT

CUSTOMER NAME : ALOFT BANGKOK SUKHUMVIT 11
ADDRESS : 35 SUKHUMVIT SOI 11 (CHAIYOT), SUKHUMVIT ROAD, KHLONG TOEI NUEA WATTHANA BANGKOK 10110
CONTACT INFORMATION : [REDACTED]
SAMPLING SOURCE : WASTEWATER TREATMENT PLANT
SAMPLE TYPE : WASTEWATER
SAMPLING DATE : JUNE 11, 2024
SAMPLING TIME : 1/
SAMPLING METHOD : GRAB
SAMPLING BY : [REDACTED]
ANALYZED BY : [REDACTED]
RECEIVED DATE : JUNE 11, 2024
ANALYTICAL DATE : JUNE 11-18, 2024
ISSUE DATE : JUNE 19, 2024
REPORT NO. : 2024-U054478
WORK NO. : 2023-010065
ANALYSIS NO. : T24AM767-0002 - T24AM767-0003

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT		REGULATORY STANDARD	DETECTION LIMIT
			1 14:30 HOUR 1/ T24AM767-0002	2 14:25 HOUR 1/ T24AM767-0003		
pH ^a	-	ELECTROMETRIC METHOD (AT SITE) SM: PART 4500-H ⁺ B AND 1060 B	6.7 (31°C)	7.0 (30°C)	5-9	-
RESIDUAL CHLORINE ^c	mg/L Cl ₂	MODIFIED DPD COLOURIMETRIC METHOD (AT SITE)	ND	ND	-	0.1
BIOCHEMICAL OXYGEN DEMAND ^c	mg/L	MEMBRANE ELECTRODE METHOD (SM: PART 5210 B AND PART 4500-O G)	199	6.8	≤ 20	2.0
SUSPENDED SOLIDS ^a	mg/L	SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: PART 2540 D)	676	8.3	≤ 30	5.0
TOTAL DISSOLVED SOLIDS ^b	mg/L	IN-HOUSE METHOD: UAE.TP.WAO.007 (TOTAL DISSOLVED SOLIDS DRIED AT 103-105 °C); SM: PART 2540 C	494	754	500*	25
SETTLEABLE SOLIDS ^c	mL/L	IMHOFF CONE (SM: PART 2540 F)	13.0	< 0.1	≤ 0.5	0.1
SULPHIDE ^b	mg/L	IODOMETRIC METHOD (SM: PART 4500-S ₂ -F)	2.8	< 0.50	≤ 1.0	0.50
TOTAL KJELDAHL NITROGEN ^b	mg/L	IN-HOUSE METHOD: UAE.TP.WAS.001 (KJELDAHL METHOD); SM: PART 4500-Norg C	121	8.4	≤ 35	1.5
FAT, OIL AND GREASE ^c	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: PART 5520 B)	50	ND	≤ 20	3



PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT		REGULATORY STANDARD	DETECTION LIMIT
			1 14:30 HOUR 1/ T24AM767-0002	2 14:25 HOUR 1/ T24AM767-0003		
MICROBIOLOGY						
COLIFORM BACTERIA ^b	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: PART 9221B AND C)	24,000	>160,000	-	1.8
SAMPLE CONDITION						
WATER'S COLOUR/TURBID			BLACK/TURBID	YELLOW/CLEAR		
SEDIMENT			BLACK	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

RESULT 2 : EFFLUENT

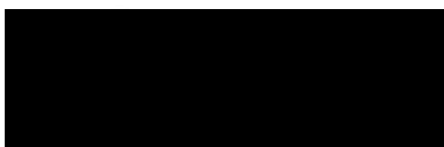
REGULATORY STANDARD : RANGE OR MAXIMUM PERMITTED VALUE FOR BUILDING EFFLUENT STANDARDS CLASS A, NOTIFICATION OF THE
MINISTRY OF RESOURCES AND ENVIRONMENT, PUBLISHED IN THE ROYAL GOVERNMENT GAZETTE, VOL 122,
PART 125 D, DATED DECEMBER 29, 2005 AND VOL 139 SPECIAL PART 171 D, DATED JULY 21, 2022.

500* : PERMITTED EXCESS VALUE TO TOTAL DISSOLVED SOLIDS OF ACTUAL TAP WATER USED.

BIOCHEMICAL OXYGEN DEMAND (T24AM767-0003) : ADDITION OF NITRIFICATION INHIBITION (TCMP) FOLLOW TO THE SM: 5210B,5(e).

ND : NOT DETECTED.

COMMENT : ALL TESTED PARAMETERS OF THE EFFLUENT ARE COMPLIED WITH REGULATORY STANDARD.



ANALYSIS REPORT

CUSTOMER NAME : ALOFT BANGKOK SUKHUMVIT 11
ADDRESS : 35 SUKHUMVIT SOI 11 (CHAIYOT), SUKHUMVIT ROAD, KHLONG TOEI NUEA WATTHANA BANGKOK 10110
CONTACT INFORMATION :
SAMPLING SOURCE : -
SAMPLE TYPE : WATER SUPPLY
SAMPLING DATE : JUNE 11, 2024
SAMPLING TIME : 14:20 HOUR
SAMPLING METHOD ^c : GRAB
SAMPLING BY ^c :
ANALYZED BY :
RECEIVED DATE : JUNE 11, 2024
ANALYTICAL DATE : JUNE 11-17, 2024
ISSUE DATE : JUNE 19, 2024
REPORT NO. : 2024-U054480
WORK NO. : 2023-010065
ANALYSIS NO. : T24AM767-0004

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT
			WATER SUPPLY T24AM767-0004	
TOTAL DISSOLVED SOLIDS ^b	mg/L	TOTAL DISSOLVED SOLIDS DRIED AT 180 °C (SM: PART 2540 C)	236	25
SAMPLE CONDITION WATER'S COLOUR/TURBID SEDIMENT			COLOURLESS/CLEAR	

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

^b : ISO/IEC 17025 ACCREDITED BY DEPARTMENT OF SCIENCE SERVICE (DSS)

^c : VERIFIED BY OWN LABORATORY QUALITY SYSTEM, BUT STILL NOT ACCREDITED

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



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ANALYSIS REPORT

CUSTOMER NAME : ALOFT BANGKOK SUKHUMVIT 11
ADDRESS : 35 SUKHUMVIT SOI 11 (CHAIYOT), SUKHUMVIT ROAD, KHLONG TOEI NUEA WATTHANA BANGKOK 10110
CONTACT INFORMATION : [REDACTED]
SAMPLING SOURCE : ICE MACHINE MAIN KITCHEN
SAMPLE TYPE : ICE
SAMPLING DATE : JANUARY 9, 2024
SAMPLING TIME : 14:10 HOUR
SAMPLING METHOD^c : GRAB AND STERILE TECHNIQUE
SAMPLING BY^c : [REDACTED]
ANALYZED BY : [REDACTED]

RECEIVED DATE : JANUARY 9, 2024
ANALYTICAL DATE : JANUARY 9-15, 2024
ISSUE DATE : JANUARY 22, 2024
REPORT NO. : 2024-U005680
WORK NO. : 2023-010065
ANALYSIS NO. : T24AA389-0001

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			ICE T24AA389-0001		
MICROBIOLOGY					
COLIFORM BACTERIA ^b	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: PART 9221 B AND C)	< 1.1	< 22	1.1
FAECAL COLIFORM BACTERIA ^b	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: PART 9221 B, C AND E)	< 1.1	-	1.1
<i>E. coli</i> ^b	/100 mL	FLUOROGENIC SUBSTRATE TEST (SM: PART 9221 D AND F)	NOT DETECTED	NOT DETECTED	-
HETERO PLATE COUNT ^b	CFU/mL	STANDARD PLATE COUNT (SM: PART 9215 B)	10	-	1
<i>Clostridium perfringens</i> ^c	/100 mL	ENVIRONMENT AGENCY, THE MICROBIOLOGY OF DRINKING WATER, 2010 PART 6	NOT DETECTED	1/	-
SAMPLE CONDITION					
WATER'S COLOUR/TURBID SEDIMENT			COLOURLESS/CLEAR		
			-		

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

^b : ISO/IEC 17025 ACCREDITED BY DEPARTMENT OF SCIENCE SERVICE (DSS)

^c : VERIFIED BY OWN LABORATORY QUALITY SYSTEM, BUT STILL NOT ACCREDITED

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

REGULATORY STANDARD : ICE QUALITY STANDARDS, NOTIFICATION OF THE MINISTRY OF PUBLIC HEALTH, NO.78, B.E. 2527 (1984),
PUBLISHED IN THE ROYAL GOVERNMENT GAZETTE, VOL 101, PART 23, DATED FEBRUARY 22, 1984.

1/ : DISEASE-CAUSING BACTERIA IS NOT DETECTED.

COMMENT : ALL TESTED PARAMETERS ARE COMPLIED WITH REGULATORY STANDARD.



ANALYSIS REPORT

CUSTOMER NAME : ALOFT BANGKOK SUKHUMVIT 11
ADDRESS : 35 SUKHUMVIT SOI 11 (CHAIYOT), SUKHUMVIT ROAD, KHLONG TOEI NUEA WATTHANA BANGKOK 10110
CONTACT INFORMATION :
SAMPLING SOURCE : ICE MACHINE WXYZ
SAMPLE TYPE : ICE
SAMPLING DATE : FEBRUARY 13, 2024
SAMPLING TIME : 13:35 HOUR
SAMPLING METHOD ^c : GRAB AND STERILE TECHNIQUE
SAMPLING BY ^c :
ANALYZED BY :
RECEIVED DATE : FEBRUARY 13, 2024
ANALYTICAL DATE : FEBRUARY 13-16, 2024
ISSUE DATE : MARCH 1, 2024
REPORT NO. : 2024-U017369
WORK NO. : 2023-010065
ANALYSIS NO. : T24AC869-0001

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			ICE T24AC869-0001		
MICROBIOLOGY					
COLIFORM BACTERIA ^b	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: PART 9221 B)	< 1.1	< 2.2	1.1
FAECAL COLIFORM BACTERIA ^b	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: PART 9221 E)	< 1.1	-	1.1
<i>E. coli</i> ^b	/100 mL	FLUOROGENIC SUBSTRATE TEST (SM: PART 9221 D AND F)	NOT DETECTED	NOT DETECTED	-
HETERO PLATE COUNT ^b	CFU/mL	STANDARD PLATE COUNT (SM: PART 9215 B)	1.5x10 ³	-	1
<i>Clostridium perfringens</i> ^c	/100 mL	ENVIRONMENT AGENCY, THE MICROBIOLOGY OF DRINKING WATER, 2010 PART 6	NOT DETECTED	1/	-
SAMPLE CONDITION WATER'S COLOUR/TURBID SEDIMENT			COLOURLESS/CLEAR -		

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

^b : ISO/IEC 17025 ACCREDITED BY DEPARTMENT OF SCIENCE SERVICE (DSS)

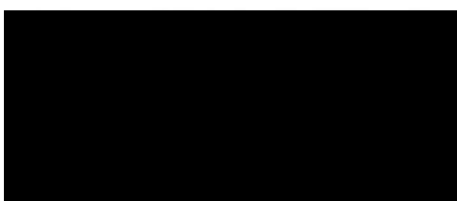
^c : VERIFIED BY OWN LABORATORY QUALITY SYSTEM, BUT STILL NOT ACCREDITED

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



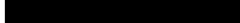
REGULATORY STANDARD : ICE QUALITY STANDARDS, NOTIFICATION OF THE MINISTRY OF PUBLIC HEALTH, NO.78, B.E. 2527 (1984),
PUBLISHED IN THE ROYAL GOVERNMENT GAZETTE, VOL 101, PART 23, DATED FABRUARY 22, 1984.

1/ : DISEASE-CAUSING BACTERIA IS NOT DETECTED.

COMMENT : ALL TESTED PARAMETERS ARE COMPLIED WITH REGULATORY STANDARD.



ANALYSIS REPORT

CUSTOMER NAME : ALOFT BANGKOK SUKHUMVIT 11
ADDRESS : 35 SUKHUMVIT SOI 11 (CHAIYOT), SUKHUMVIT ROAD, KHLONG TOEI NUEA WATTHANA BANGKOK 10110
CONTACT INFORMATION : 
SAMPLING SOURCE : ICE MACHINE MAIN KITCHEN
SAMPLE TYPE : ICE
SAMPLING DATE : MARCH 8, 2024
SAMPLING TIME : 14:35 HOUR
SAMPLING METHOD ^c : GRAB AND STERILE TECHNIQUE
SAMPLING BY ^c : 
ANALYZED BY : 
RECEIVED DATE : MARCH 8, 2024
ANALYTICAL DATE : MARCH 8-14, 2024
ISSUE DATE : MARCH 19, 2024
REPORT NO. : 2024-U022295
WORK NO. : 2023-010065
ANALYSIS NO. : T24AE893-0001

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			ICE T24AE893-0001		
MICROBIOLOGY					
COLIFORM BACTERIA ^b	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: PART 9221B)	< 1.1	< 2.2	1.1
FAECAL COLIFORM BACTERIA ^b	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: PART 9221E)	< 1.1	-	1.1
<i>E. coli</i> ^b	/100 mL	FLUOROGENIC SUBSTRATE TEST (SM: PART 9221D AND F)	NOT DETECTED	NOT DETECTED	-
HETERO PLATE COUNT ^b	CFU/mL	STANDARD PLATE COUNT (SM: PART 9215 B)	20	-	1
<i>Clostridium perfringens</i> ^c	/100 mL	ENVIRONMENT AGENCY, THE MICROBIOLOGY OF DRINKING WATER, 2010 PART 6	NOT DETECTED	1/	-
SAMPLE CONDITION					
WATER'S COLOUR/TURBID SEDIMENT			COLOURLESS/CLEAR		

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

^b : ISO/IEC 17025 ACCREDITED BY DEPARTMENT OF SCIENCE SERVICE (DSS)

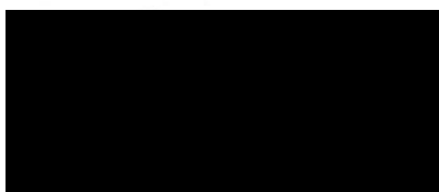
^c : VERIFIED BY OWN LABORATORY QUALITY SYSTEM, BUT STILL NOT ACCREDITED

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



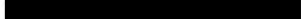
REGULATORY STANDARD : ICE QUALITY STANDARDS, NOTIFICATION OF THE MINISTRY OF PUBLIC HEALTH, NO.78, B.E. 2527 (1984),
PUBLISHED IN THE ROYAL GOVERNMENT GAZETTE, VOL 101, PART 23, DATED FEBRUARY 22, 1984.

1/ : DISEASE-CAUSING BACTERIA IS NOT DETECTED.

COMMENT : ALL TESTED PARAMETERS ARE COMPLIED WITH REGULATORY STANDARD.



ANALYSIS REPORT

CUSTOMER NAME : ALOFT BANGKOK SUKHUMVIT 11
ADDRESS : 35 SUKHUMVIT SOI 11 (CHAIYOT), SUKHUMVIT ROAD, KHLONG TOEI NUEA WATTHANA BANGKOK 10110
CONTACT INFORMATION : 
SAMPLING SOURCE : ICE MACHINE REFVRL
SAMPLE TYPE : ICE
SAMPLING DATE : APRIL 9, 2024
SAMPLING TIME : 14:05 HOUR
SAMPLING METHOD : GRAB AND STERILE TECHNIQUE
SAMPLING BY : 
ANALYZED BY : 

RECEIVED DATE : APRIL 9, 2024
ANALYTICAL DATE : APRIL 9-13, 2024
ISSUE DATE : MAY 3, 2024
REPORT NO. : 2024-U037141
WORK NO. : 2023-010065
ANALYSIS NO. : T24AH590-0001

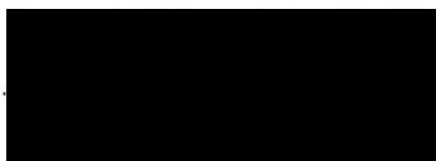
PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			ICE T24AH590-0001		
MICROBIOLOGY					
COLIFORM BACTERIA	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: PART 9221 B)	< 1.1	< 2.2	1.1
FAECAL COLIFORM BACTERIA	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: PART 9221 E)	< 1.1	-	1.1
<i>E. coli</i>	/100 mL	FLUOROGENIC SUBSTRATE TEST (SM: PART 9221 D AND F)	NOT DETECTED	NOT DETECTED	-
HETERO PLATE COUNT	CFU/mL	STANDARD PLATE COUNT (SM: PART 9215 B)	5.6x10 ³	-	1
<i>Clostridium perfringens</i>	/100 mL	ENVIRONMENT AGENCY, THE MICROBIOLOGY OF DRINKING WATER, 2010 PART 6	NOT DETECTED	1/	-
SAMPLE CONDITION					
WATER'S COLOUR/TURBID SEDIMENT			COLOURLESS/CLEAR		

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

REGULATORY STANDARD : ICE QUALITY STANDARDS, NOTIFICATION OF THE MINISTRY OF PUBLIC HEALTH, NO.78, B.E. 2527 (1984), PUBLISHED IN THE ROYAL GOVERNMENT GAZETTE, VOL 101, PART 23, DATED FEBRUARY 22, 1984.

1/ : DISEASE-CAUSING BACTERIA IS NOT DETECTED.

COMMENT : ALL TESTED PARAMETERS ARE COMPLIED WITH REGULATORY STANDARD.



ANALYSIS REPORT

CUSTOMER NAME : ALOFT BANGKOK SUKHUMVIT 11
ADDRESS : 35 SUKHUMVIT SOI 11 (CHAIYOT), SUKHUMVIT ROAD, KHLONG TOEI NUEA WATTHANA BANGKOK 10110
CONTACT INFORMATION : [REDACTED]
SAMPLING SOURCE : ICE MACHINE MAIN KITCHEN
SAMPLE TYPE : ICE
SAMPLING DATE : MAY 14, 2024
SAMPLING TIME : 13:15 HOUR
SAMPLING METHOD : GRAB AND STERILE TECHNIQUE
SAMPLING BY : [REDACTED]
ANALYZED BY : [REDACTED]

RECEIVED DATE : MAY 14, 2024
ANALYTICAL DATE : MAY 14-22, 2024
ISSUE DATE : MAY 29, 2024
REPORT NO. : 2024-U046275
WORK NO. : 2023-010065
ANALYSIS NO. : T24AK154-0001

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			ICE T24AK154-0001		
MICROBIOLOGY					
FAECAL COLIFORM BACTERIA	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: PART 9221 E)	< 1.1	-	1.1
COLIFORM BACTERIA	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: PART 9221 B)	< 1.1	< 2.2	1.1
<i>E. coli</i>	/100 mL	FLUOROGENIC SUBSTRATE TEST (SM: PART 9221 D AND F)	NOT DETECTED	NOT DETECTED	-
<i>Clostridium perfringens</i>	/100 mL	ENVIRONMENT AGENCY, THE MICROBIOLOGY OF DRINKING WATER, 2010 PART 6	NOT DETECTED	1/	-
HETERO PLATE COUNT	CFU/mL	STANDARD PLATE COUNT (SM: PART 9215 B)	7	-	1
SAMPLE CONDITION					
WATER'S COLOUR/TURBID SEDIMENT			COLOURLESS/CLEAR		

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

REGULATORY STANDARD : ICE QUALITY STANDARDS, NOTIFICATION OF THE MINISTRY OF PUBLIC HEALTH, NO.78, B.E. 2527 (1984),
PUBLISHED IN THE ROYAL GOVERNMENT GAZETTE, VOL 101, PART 23, DATED FEBRUARY 22, 1984.

1/ : DISEASE-CAUSING BACTERIA IS NOT DETECTED.

COMMENT : ALL TESTED PARAMETERS ARE COMPLIED WITH REGULATORY STANDARD.



ANALYSIS REPORT

CUSTOMER NAME : ALOFT BANGKOK SUKHUMVIT 11
ADDRESS : 35 SUKHUMVIT SOI 11 (CHAIYOT), SUKHUMVIT ROAD, KHLONG TOEI NUEA WATTHANA BANGKOK 10110
CONTACT INFORMATION : [REDACTED]
SAMPLING SOURCE : ICE MACHINE MAIN KITCHEN
SAMPLE TYPE : ICE
SAMPLING DATE : JUNE 11, 2024
SAMPLING TIME : 14:10 HOUR
SAMPLING METHOD ^c : GRAB AND STERILE TECHNIQUE
SAMPLING BY ^c : [REDACTED]
ANALYZED BY : [REDACTED]
RECEIVED DATE : JUNE 11, 2024
ANALYTICAL DATE : JUNE 11-19, 2024
ISSUE DATE : JUNE 25, 2024
REPORT NO. : 2024-U054476
WORK NO. : 2023-010065
ANALYSIS NO. : T24AM767-0001

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			ICE T24AM767-0001		
MICROBIOLOGY					
COLIFORM BACTERIA ^b	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: PART 9221B AND C)	< 1.1	< 2.2	1.1
FAECAL COLIFORM BACTERIA ^b	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: PART 9221B, C AND E)	< 1.1	-	1.1
<i>E. coli</i> ^b	/100 mL	FLUOROGENIC SUBSTRATE TEST (SM: PART 9221D AND F)	NOT DETECTED	NOT DETECTED	-
HETERO PLATE COUNT ^b	CFU/mL	STANDARD PLATE COUNT (SM: PART 9215 B)	< 1	-	1
<i>Clostridium perfringens</i> ^c	/100 mL	ENVIRONMENT AGENCY, THE MICROBIOLOGY OF DRINKING WATER, 2010 PART 6	NOT DETECTED	1/	-
SAMPLE CONDITION					
WATER'S COLOUR/TURBID SEDIMENT			COLOURLESS/CLEAR		

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

^b : ISO/IEC 17025 ACCREDITED BY DEPARTMENT OF SCIENCE SERVICE (DSS)

^c : VERIFIED BY OWN LABORATORY QUALITY SYSTEM, BUT STILL NOT ACCREDITED

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

REGULATORY STANDARD : ICE QUALITY STANDARDS, NOTIFICATION OF THE MINISTRY OF PUBLIC HEALTH, NO.78, B.E. 2527 (1984),
PUBLISHED IN THE ROYAL GOVERNMENT GAZETTE, VOL 101, PART 23, DATED FABRUARY 22, 1984.

1/ : DISEASE-CAUSING BACTERIA IS NOT DETECTED.

COMMENT : ALL TESTED PARAMETERS ARE COMPLIED WITH REGULATORY STANDARD.



ภาคผนวก จ-3
คุณภาพน้ำสระว่ายนํ้า

ANALYSIS REPORT

CUSTOMER NAME : ALOFT BANGKOK SUKHUMVIT 11
ADDRESS : 35 SUKHUMVIT SOI 11 (CHAIYOT), SUKHUMVIT ROAD, KHLONG TOEI NUEA WATTANA BANGKOK 10110
CONTACT INFORMATION :
SAMPLING SOURCE : SWIMMING POOL
SAMPLE TYPE : WATER SAMPLE FROM SWIMMING POOL
SAMPLING DATE : JANUARY 9, 2024
SAMPLING TIME : 14:25 HOUR
SAMPLING METHOD ^c : GRAB, GRAB AND STERILE TECHNIQUE
SAMPLING BY ^c :
ANALYZED BY :
RECEIVED DATE : JANUARY 9, 2024
ANALYTICAL DATE : JANUARY 9-15, 2024
ISSUE DATE : JANUARY 22, 2024
REPORT NO. : 2024-U005682
WORK NO. : 2023-010065
ANALYSIS NO. : T24AA389-0003

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			SWIMMING POOL T24AA389-0003		
pH ^c	-	ELECTROMETRIC METHOD (AT SITE) SM: PART 4500-H ⁺ B AND 1060 B	7.7 (28°C)	7.2-8.4	-
RESIDUAL CHLORINE ^c	mg/L Cl ₂	MODIFIED DPD COLOURIMETRIC METHOD (AT SITE)	0.8	0.6-1.0	0.1
MICROBIOLOGY					
COLIFORM BACTERIA ^b	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: PART 9221 B AND C)	< 1.1	< 10	1.1
<i>E. coli</i> ^b	/100 mL	FLUOROGENIC SUBSTRATE TEST (SM: PART 9221 D AND F)	NOT DETECTED	NOT DETECTED	-
SAMPLE CONDITION WATER'S COLOUR/TURBID SEDIMENT			COLOURLESS/CLEAR -		

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

^b : ISO/IEC 17025 ACCREDITED BY DEPARTMENT OF SCIENCE SERVICE (DSS)

^c : VERIFIED BY OWN LABORATORY QUALITY SYSTEM, BUT STILL NOT ACCREDITED

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

REGULATORY STANDARD : BANGKOK METROPOLITAN REGULATIONS FOR THE BUSINESS DISTRICTIONAL TO HEALTH, B.E 2530 (1987).

COMMENT : ALL TESTED PARAMETERS ARE COMPLIED WITH REGULATORY STANDARD.



ANALYSIS REPORT

CUSTOMER NAME : ALOFT BANGKOK SUKHUMVIT 11
ADDRESS : 35 SUKHUMVIT SOI 11 (CHAIYOT), SUKHUMVIT ROAD, KHLONG TOEI NUEA WATTHANA BANGKOK 10110
CONTACT INFORMATION :
SAMPLING SOURCE : SWIMMING POOL
SAMPLE TYPE : WATER SAMPLE FROM SWIMMING POOL
SAMPLING DATE : FEBRUARY 13, 2024
SAMPLING TIME : 13:30 HOUR
SAMPLING METHOD ° : GRAB, GRAB AND STERILE TECHNIQUE
SAMPLING BY ° :
ANALYZED BY :
RECEIVED DATE : FEBRUARY 13, 2024
ANALYTICAL DATE : FEBRUARY 13-18, 2024
ISSUE DATE : MARCH 1, 2024
REPORT NO. : 2024-U017370
WORK NO. : 2023-010065
ANALYSIS NO. : T24AC869-0002

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			SWIMMING POOL T24AC869-0002		
pH °	-	ELECTROMETRIC METHOD (AT SITE) SM: PART 4500-H ⁺ B AND 1060 B	7.2 (30°C)	7.2-8.4	-
RESIDUAL CHLORINE °	mg/L Cl ₂	MODIFIED DPD COLOURIMETRIC METHOD (AT SITE)	0.8	0.6-1.0	0.1
MICROBIOLOGY					
COLIFORM BACTERIA ^b	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: PART 9221 B)	< 1.1	< 10	1.1
<i>E. coli</i> ^b	/100 mL	FLUOROGENIC SUBSTRATE TEST (SM: PART 9221 D AND F)	NOT DETECTED	NOT DETECTED	-
SAMPLE CONDITION WATER'S COLOUR/TURBID SEDIMENT			COLOURLESS/CLEAR -		

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

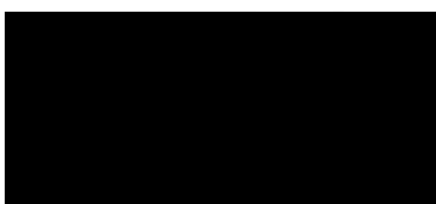
^b : ISO/IEC 17025 ACCREDITED BY DEPARTMENT OF SCIENCE SERVICE (DSS)

^c : VERIFIED BY OWN LABORATORY QUALITY SYSTEM, BUT STILL NOT ACCREDITED

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

REGULATORY STANDARD : BANGKOK METROPOLITAN REGULATIONS FOR THE BUSINESS DISTRIMENTAL TO HEALTH, B.E. 2530 (1987).

COMMENT : ALL TESTED PARAMETERS ARE COMPLIED WITH REGULATORY STANDARD.



ANALYSIS REPORT

CUSTOMER NAME : ALOFT BANGKOK SUKHUMVIT 11
ADDRESS : 35 SUKHUMVIT SOI 11 (CHAIYOT), SUKHUMVIT ROAD, KHLONG TOEI NUEA WATTHANA BANGKOK 10110
CONTACT INFORMATION :
SAMPLING SOURCE : SWIMMING POOL
SAMPLE TYPE : WATER SAMPLE FROM SWIMMING POOL
SAMPLING DATE : MARCH 8, 2024
SAMPLING TIME : 14:30 HOUR
SAMPLING METHOD ° : GRAB, GRAB AND STERILE TECHNIQUE
SAMPLING BY ° :
ANALYZED BY :
RECEIVED DATE : MARCH 8, 2024
ANALYTICAL DATE : MARCH 8-13, 2024
ISSUE DATE : MARCH 19, 2024
REPORT NO. : 2024-U022296
WORK NO. : 2023-010065
ANALYSIS NO. : T24AE893-0002

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			SWIMMING POOL T24AE893-0002		
pH °	-	ELECTROMETRIC METHOD (AT SITE) SM: PART 4500-H ⁺ B AND 1060 B	7.2 (30°C)	7.2-8.4	-
RESIDUAL CHLORINE °	mg/L Cl ₂	MODIFIED DPD COLOURIMETRIC METHOD (AT SITE)	1.0	0.6-1.0	0.1
MICROBIOLOGY					
COLIFORM BACTERIA ^b	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: PART 9221 B)	< 1.1	< 10	1.1
<i>E. coli</i> ^b	/100 mL	FLUOROGENIC SUBSTRATE TEST (SM: PART 9221 D AND F)	NOT DETECTED	NOT DETECTED	-
SAMPLE CONDITION WATER'S COLOUR/TURBID SEDIMENT			COLOURLESS/CLEAR -		

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

^b : ISO/IEC 17025 ACCREDITED BY DEPARTMENT OF SCIENCE SERVICE (DSS)

^c : VERIFIED BY OWN LABORATORY QUALITY SYSTEM, BUT STILL NOT ACCREDITED

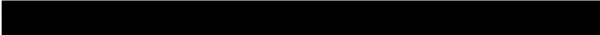

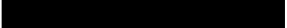
SM : STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 23rd EDITION, 2017.

REGULATORY STANDARD : BANGKOK METROPOLITAN REGULATIONS FOR THE BUSINESS DISTRIMENTAL TO HEALTH, B.E. 2530 (1987).

COMMENT : ALL TESTED PARAMETERS ARE COMPLIED WITH REGULATORY STANDARD.



ANALYSIS REPORT

CUSTOMER NAME : ALOFT BANGKOK SUKHUMVIT 11
ADDRESS : 35 SUKHUMVIT SOI 11 (CHAIYOT), SUKHUMVIT ROAD, KHLONG TOEI NUEA WATTHANA BANGKOK 10110
CONTACT INFORMATION : 
SAMPLING SOURCE : SWIMMING POOL
SAMPLE TYPE : WATER SAMPLE FROM SWIMMING POOL
SAMPLING DATE : APRIL 9, 2024
SAMPLING TIME : 14:00 HOUR
SAMPLING METHOD : GRAB, GRAB AND STERILE TECHNIQUE
SAMPLING BY : 
ANALYZED BY : 

RECEIVED DATE : APRIL 9, 2024
ANALYTICAL DATE : APRIL 9-17, 2024
ISSUE DATE : MAY 3, 2024
REPORT NO. : 2024-U037143
WORK NO. : 2023-010065
ANALYSIS NO. : T24AH590-0002

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			SWIMMING POOL T24AH590-0002		
pH	-	ELECTROMETRIC METHOD (AT SITE) SM: PART 4500-H ⁺ B AND 1060 B	7.3 (31°C)	7.2-8.4	-
RESIDUAL CHLORINE	mg/L Cl ₂	MODIFIED DPD COLOURIMETRIC METHOD (AT SITE)	0.6	0.6-1.0	0.1
MICROBIOLOGY					
COLIFORM BACTERIA	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: PART 9221B)	< 1.1	< 10	1.1
<i>E. coli</i>	/100 mL	FLUOROGENIC SUBSTRATE TEST (SM: PART 9221D AND F)	NOT DETECTED	NOT DETECTED	-
SAMPLE CONDITION					
WATER'S COLOUR/TURBID			COLOURLESS/CLEAR		
SEDIMENT			-		

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

REGULATORY STANDARD : BANGKOK METROPOLITAN REGULATIONS FOR THE BUSINESS DISTRICTIONAL TO HEALTH, B.E. 2530 (1987).

COMMENT : ALL TESTED PARAMETERS ARE COMPLIED WITH REGULATORY STANDARD.



ANALYSIS REPORT

CUSTOMER NAME : ALOFT BANGKOK SUKHUMVIT 11
ADDRESS : 35 SUKHUMVIT SOI 11 (CHAIYOT), SUKHUMVIT ROAD, KHLONG TOEI NUEA WATTANA BANGKOK 10110
CONTACT INFORMATION :
SAMPLING SOURCE : SWIMMING POOL
SAMPLE TYPE : WATER SAMPLE FROM SWIMMING POOL
SAMPLING DATE : MAY 14, 2024
SAMPLING TIME : 13:10 HOUR
SAMPLING METHOD : GRAB, GRAB AND STERILE TECHNIQUE
SAMPLING BY :
ANALYZED BY :
RECEIVED DATE : MAY 14, 2024
ANALYTICAL DATE : MAY 14-22, 2024
ISSUE DATE : MAY 29, 2024
REPORT NO. : 2024-U046276
WORK NO. : 2023-010065
ANALYSIS NO. : T24AK154-0002

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			SWIMMING POOL T24AK154-0002		
pH	-	ELECTROMETRIC METHOD (AT SITE) SM: PART 4500-H ⁺ B AND 1060 B	7.3 (30°C)	7.2-8.4	-
RESIDUAL CHLORINE	mg/L Cl ₂	MODIFIED DPD COLOURIMETRIC METHOD (AT SITE)	1.0	0.6-1.0	0.1
MICROBIOLOGY					
COLIFORM BACTERIA	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: PART 9221B)	< 1.1	< 10	1.1
<i>E. coli</i>	/100 mL	FLUOROGENIC SUBSTRATE TEST (SM: PART 9221 D AND F)	NOT DETECTED	NOT DETECTED	-
SAMPLE CONDITION WATER'S COLOUR/TURBID SEDIMENT			COLOURLESS/CLEAR -		

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

REGULATORY STANDARD : BANGKOK METROPOLITAN REGULATIONS FOR THE BUSINESS DISTRIMENTAL TO HEALTH, B.E. 2530 (1987).

COMMENT : ALL TESTED PARAMETERS ARE COMPLIED WITH REGULATORY STANDARD.



ANALYSIS REPORT

CUSTOMER NAME : ALOFT BANGKOK SUKHUMVIT 11
ADDRESS : 35 SUKHUMVIT SOI 11 (CHAIYOT), SUKHUMVIT ROAD, KHLONG TOEI NUEA WATTHANA BANGKOK 10110
CONTACT INFORMATION :
SAMPLING SOURCE : SWIMMING POOL
SAMPLE TYPE : WATER SAMPLE FROM SWIMMING POOL
SAMPLING DATE : JUNE 26, 2024
SAMPLING TIME : 12:20 HOUR
SAMPLING METHOD ^c : GRAB, GRAB AND STERILE TECHNIQUE
SAMPLING BY ^c :
ANALYZED BY :
RECEIVED DATE : JUNE 26, 2024
ANALYTICAL DATE : JUNE 26 - JULY 2, 2024
ISSUE DATE : JULY 8, 2024
REPORT NO. : 2024-U061774
WORK NO. : 2023-010065
ANALYSIS NO. : T24AO299-0001

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			SWIMMING POOL T24AO299-0001		
pH ^c	-	ELECTROMETRIC METHOD (AT SITE) SM: PART 4500-H ⁺ B AND 1060 B	7.9 (29°C)	7.2-8.4	-
RESIDUAL CHLORINE ^c	mg/L Cl ₂	MODIFIED DPD COLOURIMETRIC METHOD (AT SITE)	0.6	0.6-1.0	0.1
MICROBIOLOGY					
COLIFORM BACTERIA ^b	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: PART 9221 B AND C)	3.6	< 10	1.1
<i>E. coli</i> ^b	/100 mL	FLUOROGENIC SUBSTRATE TEST (SM: PART 9221 D AND F)	NOT DETECTED	NOT DETECTED	-
SAMPLE CONDITION WATER'S COLOUR/TURBID SEDIMENT			COLOURLESS/CLEAR		

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

^b : ISO/IEC 17025 ACCREDITED BY DEPARTMENT OF SCIENCE SERVICE (DSS)

^c : VERIFIED BY OWN LABORATORY QUALITY SYSTEM, BUT STILL NOT ACCREDITED

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

REGULATORY STANDARD : BANGKOK METROPOLITAN REGULATIONS FOR THE BUSINESS DISTRIMENTAL TO HEALTH, B.E. 2530 (1987).

COMMENT : ALL TESTED PARAMETERS ARE COMPLIED WITH REGULATORY STANDARD.



ภาคผนวก จ-4
คุณภาพน้ำใช้

ANALYSIS REPORT

CUSTOMER NAME : ALOFT BANGKOK SUKHUMVIT 11
ADDRESS : 35 SUKHUMVIT SOI 11 (CHAIYOT), SUKHUMVIT ROAD, KHLONG TOEI NUEA WATTHANA BANGKOK 10110
CONTACT INFORMATION :
SAMPLING SOURCE : INCOMING WATER
SAMPLE TYPE : WATER SUPPLY
SAMPLING DATE : JANUARY 9, 2024
SAMPLING TIME : 14:20 HOUR
SAMPLING METHOD : STERILE TECHNIQUE
SAMPLING BY :
ANALYZED BY :
RECEIVED DATE : JANUARY 9, 2024
ANALYTICAL DATE : JANUARY 9-17, 2024
ISSUE DATE : JANUARY 22, 2024
REPORT NO. : 2024-U005683
WORK NO. : 2023-010065
ANALYSIS NO. : T24AA389-0004

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT
			WATER SUPPLY T24AA389-0004	
MICROBIOLOGY				
Legionella spp.	CFU/L	ISO 11731:2017-05 (E)	NOT DETECTED	100
SAMPLE CONDITION				
WATER'S COLOUR/TURBID			COLOURLESS/CLEAR	
SEDIMENT			-	

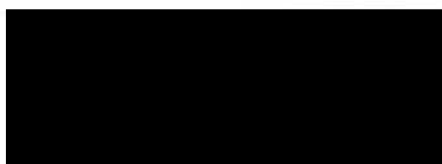


ANALYSIS REPORT

CUSTOMER NAME : ALOFT BANGKOK SUKHUMVIT 11
ADDRESS : 35 SUKHUMVIT SOI 11 (CHAIYOT), SUKHUMVIT ROAD, KHLONG TOEI NUEA WATTHANA BANGKOK 10110
CONTACT INFORMATION : [REDACTED]
SAMPLING SOURCE : WATER FROM WASH BASIN (HOT WATER) NO.3203
SAMPLE TYPE : WATER SUPPLY
SAMPLING DATE : JANUARY 9, 2024
SAMPLING TIME : 13:50 HOUR
SAMPLING METHOD : STERILE TECHNIQUE
SAMPLING BY : [REDACTED]
ANALYZED BY : [REDACTED]

RECEIVED DATE : JANUARY 9, 2024
ANALYTICAL DATE : JANUARY 9-17, 2024
ISSUE DATE : JANUARY 22, 2024
REPORT NO. : 2024-U005684
WORK NO. : 2023-010065
ANALYSIS NO. : T24AA389-0005

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT
			WATER SUPPLY T24AA389-0005	
MICROBIOLOGY				
Legionella spp.	CFU/L	ISO 11731:2017-05 (E)	NOT DETECTED	100
SAMPLE CONDITION				
WATER'S COLOUR/TURBID			COLOURLESS/CLEAR	
SEDIMENT			-	



ANALYSIS REPORT

CUSTOMER NAME : ALOFT BANGKOK SUKHUMVIT 11
ADDRESS : 35 SUKHUMVIT SOI 11 (CHAIYOT), SUKHUMVIT ROAD, KHLONG TOEI NUEA WATTHANA BANGKOK 10110
CONTACT INFORMATION :
SAMPLING SOURCE : WATER FROM WASH BASIN (COLD WATER) NO.3203
SAMPLE TYPE : WATER SUPPLY
SAMPLING DATE : JANUARY 9, 2024
SAMPLING TIME : 13:55 HOUR
SAMPLING METHOD : STERILE TECHNIQUE
SAMPLING BY :
ANALYZED BY :
RECEIVED DATE : JANUARY 9, 2024
ANALYTICAL DATE : JANUARY 9-17, 2024
ISSUE DATE : JANUARY 22, 2024
REPORT NO. : 2024-U005685
WORK NO. : 2023-010065
ANALYSIS NO. : T24AA389-0006

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT
			WATER SUPPLY T24AA389-0006	
MICROBIOLOGY				
Legionella spp.	CFU/L	ISO 11731:2017-05 (E)	NOT DETECTED	100
SAMPLE CONDITION				
WATER'S COLOUR/TURBID			COLOURLESS/CLEAR	
SEDIMENT			-	



ANALYSIS REPORT

CUSTOMER NAME : ALOFT BANGKOK SUKHUMVIT 11
ADDRESS : 35 SUKHUMVIT SOI 11 (CHAIYOT), SUKHUMVIT ROAD, KHLONG TOEI NUEA WATTHANA BANGKOK 10110
CONTACT INFORMATION :
SAMPLING SOURCE : WATER FROM SHOWER HEAD (HOT WATER) NO.3203
SAMPLE TYPE : WATER SUPPLY **RECEIVED DATE** : JANUARY 9, 2024
SAMPLING DATE : JANUARY 9, 2024 **ANALYTICAL DATE** : JANUARY 9-17, 2024
SAMPLING TIME : 14:00 HOUR **ISSUE DATE** : JANUARY 22, 2024
SAMPLING METHOD : STERILE TECHNIQUE **REPORT NO.** : 2024-U005686
SAMPLING BY :
ANALYZED BY : **WORK NO.** : 2023-010065
ANALYSIS NO. : T24AA389-0007

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT
			WATER SUPPLY T24AA389-0007	
MICROBIOLOGY				
Legionella spp.	CFU/L	ISO 11731:2017-05 (E)	NOT DETECTED	100
SAMPLE CONDITION				
WATER'S COLOUR/TURBID			COLOURLESS/CLEAR	
SEDIMENT			-	



ANALYSIS REPORT

CUSTOMER NAME : ALOFT BANGKOK SUKHUMVIT 11
ADDRESS : 35 SUKHUMVIT SOI 11 (CHAIYOT), SUKHUMVIT ROAD, KHLONG TOEI NUEA WATTHANA BANGKOK 10110
CONTACT INFORMATION :
SAMPLING SOURCE : WATER FROM SHOWER HEAD (COLD WATER) NO.3203
SAMPLE TYPE : WATER SUPPLY
SAMPLING DATE : JANUARY 9, 2024
SAMPLING TIME : 14:05 HOUR
SAMPLING METHOD : STERILE TECHNIQUE
SAMPLING BY :
ANALYZED BY :
RECEIVED DATE : JANUARY 9, 2024
ANALYTICAL DATE : JANUARY 9-17, 2024
ISSUE DATE : JANUARY 22, 2024
REPORT NO. : 2024-U005687
WORK NO. : 2023-010065
ANALYSIS NO. : T24AA389-0008

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT
			WATER SUPPLY T24AA389-0008	
MICROBIOLOGY				
Legionella spp.	CFU/L	ISO 11731:2017-05 (E)	NOT DETECTED	100
SAMPLE CONDITION				
WATER'S COLOUR/TURBID			COLOURLESS/CLEAR	
SEDIMENT			-	



ANALYSIS REPORT

CUSTOMER NAME : ALOFT BANGKOK SUKHUMVIT 11
ADDRESS : 35 SUKHUMVIT SOI 11 (CHAIYOT), SUKHUMVIT ROAD, KHLONG TOEI NUEA WATTHANA BANGKOK 10110
CONTACT INFORMATION :
SAMPLING SOURCE : DECORATIVE FOUNTAINS
SAMPLE TYPE : WATER SUPPLY
SAMPLING DATE : JANUARY 9, 2024
SAMPLING TIME : 14:30 HOUR
SAMPLING METHOD : STERILE TECHNIQUE
SAMPLING BY :
ANALYZED BY :
RECEIVED DATE : JANUARY 9, 2024
ANALYTICAL DATE : JANUARY 9-17, 2024
ISSUE DATE : JANUARY 22, 2024
REPORT NO. : 2024-U005688
WORK NO. : 2023-010065
ANALYSIS NO. : T24AA389-0009

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT
			WATER SUPPLY T24AA389-0009	
MICROBIOLOGY				
Legionella spp.	CFU/L	ISO 11731:2017-05 (E)	NOT DETECTED	100
SAMPLE CONDITION				
WATER'S COLOUR/TURBID			COLOURLESS/CLEAR	
SEDIMENT			-	




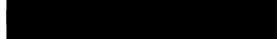
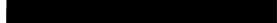
ANALYSIS REPORT

CUSTOMER NAME : ALOFT BANGKOK SUKHUMVIT 11
ADDRESS : 35 SUKHUMVIT SOI 11 (CHAIYOT), SUKHUMVIT ROAD, KHLONG TOEI NUEA WATTHANA BANGKOK 10110
CONTACT INFORMATION :
SAMPLING SOURCE : COLD WATER TANK
SAMPLE TYPE : WATER SUPPLY
SAMPLING DATE : JANUARY 9, 2024
SAMPLING TIME : 13:45 HOUR
SAMPLING METHOD : STERILE TECHNIQUE
SAMPLING BY :
ANALYZED BY :
RECEIVED DATE : JANUARY 9, 2024
ANALYTICAL DATE : JANUARY 9-20, 2024
ISSUE DATE : JANUARY 22, 2024
REPORT NO. : 2024-U005752
WORK NO. : 2023-010065
ANALYSIS NO. : T24AA389-0010

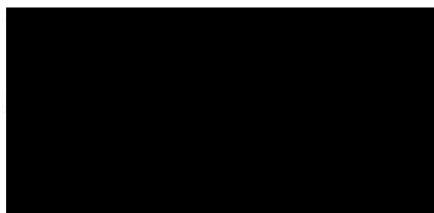
PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT
			WATER SUPPLY T24AA389-0010	
MICROBIOLOGY				
Legionella spp.	CFU/L	ISO 11731:2017-05 (E)	300	100
SAMPLE CONDITION				
WATER'S COLOUR/TURBID			COLOURLESS/CLEAR	
SEDIMENT			-	



ANALYSIS REPORT

CUSTOMER NAME : ALOFT BANGKOK SUKHUMVIT 11
ADDRESS : 35 SUKHUMVIT SOI 11 (CHAIYOT), SUKHUMVIT ROAD, KHLONG TOEI NUEA WATTHANA BANGKOK 10110
CONTACT INFORMATION : 
SAMPLING SOURCE : HOT WATER TANK
SAMPLE TYPE : WATER SUPPLY
SAMPLING DATE : JANUARY 9, 2024
SAMPLING TIME : 13:40 HOUR
SAMPLING METHOD : STERILE TECHNIQUE
SAMPLING BY : 
ANALYZED BY : 
RECEIVED DATE : JANUARY 9, 2024
ANALYTICAL DATE : JANUARY 9-20, 2024
REPORT NO. : 2024-U005753
WORK NO. : 2023-010065
ANALYSIS NO. : T24AA389-0011

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT
			WATER SUPPLY T24AA389-0011	
MICROBIOLOGY				
Legionella spp.	CFU/L	ISO 11731:2017-05 (E)	54,000	100
SAMPLE CONDITION				
WATER'S COLOUR/TURBID			COLOURLESS/CLEAR	
SEDIMENT			-	



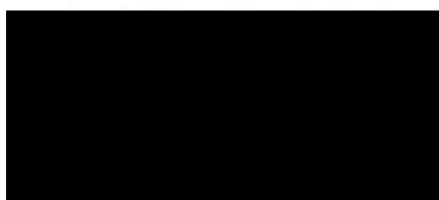
ANALYSIS REPORT

CUSTOMER NAME : ALOFT BANGKOK SUKHUMVIT 11
ADDRESS : 35 SUKHUMVIT SOI 11 (CHAIYOT), SUKHUMVIT ROAD, KHLONG TOEI NUEA WATTHANA BANGKOK 10110
CONTACT INFORMATION :
SAMPLING SOURCE : DECORATIVE FOUNTAINS
SAMPLE TYPE : WATER SUPPLY
SAMPLING DATE : FEBRUARY 13, 2024
SAMPLING TIME : 13:40 HOUR
SAMPLING METHOD * : STERILE TECHNIQUE
SAMPLING BY * :
ANALYZED BY :
RECEIVED DATE : FEBRUARY 13, 2024
ANALYTICAL DATE : FEBRUARY 13-28, 2024
ISSUE DATE : MARCH 1, 2024
REPORT NO. : 2024-U017371
WORK NO. : 2023-010065
ANALYSIS NO. : T24AC869-0003

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT
			WATER SUPPLY T24AC869-0003	
MICROBIOLOGY				
Legionella spp.	CFU/L	ISO 11731:2017-05 (E)	NOT DETECTED	100
SAMPLE CONDITION				
WATER'S COLOUR/TURBID			COLOURLESS/CLEAR	
SEDIMENT			-	

THE LABORATORY HAS BEEN ACCEPTED AS AN ACCREDITED LABORATORY COMPLYING WITH THE ISO/IEC 17025.

* : TEST METHOD ARE NOT COVERED COMPLYING WITH THE ISO/IEC 17025, VERIFIED BY OWN LABORATORY QUALITY SYSTEM.



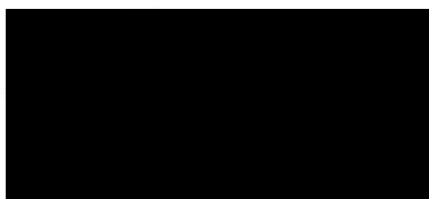
ANALYSIS REPORT

CUSTOMER NAME : ALOFT BANGKOK SUKHUMVIT 11
ADDRESS : 35 SUKHUMVIT SOI 11 (CHAIYOT), SUKHUMVIT ROAD, KHLONG TOEI NUEA WATTHANA BANGKOK 10110
CONTACT INFORMATION :
SAMPLING SOURCE : DECORATIVE FOUNTAINS
SAMPLE TYPE : WATER SUPPLY
SAMPLING DATE : MARCH 8, 2024
SAMPLING TIME : 14:40 HOUR
SAMPLING METHOD * : STERILE TECHNIQUE
SAMPLING BY * :
ANALYZED BY :
RECEIVED DATE : MARCH 8, 2024
ANALYTICAL DATE : MARCH 8-20, 2024
ISSUE DATE : MARCH 25, 2024
REPORT NO. : 2024-U024596
WORK NO. : 2023-010065
ANALYSIS NO. : T24AE893-0003

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT
			WATER SUPPLY T24AE893-0003	
MICROBIOLOGY				
Legionella spp.	CFU/L	ISO 11731:2017-05 (E)	NOT DETECTED	100
SAMPLE CONDITION				
WATER'S COLOUR/TURBID			COLOURLESS/CLEAR	
SEDIMENT			-	

THE LABORATORY HAS BEEN ACCEPTED AS AN ACCREDITED LABORATORY COMPLYING WITH THE ISO/IEC 17025.

* : TEST METHOD ARE NOT COVERED COMPLYING WITH THE ISO/IEC 17025, VERIFIED BY OWN LABORATORY QUALITY SYSTEM.



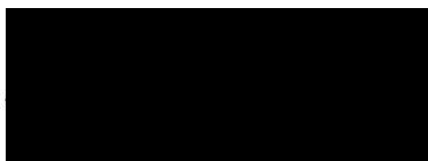
ANALYSIS REPORT

CUSTOMER NAME : ALOFT BANGKOK SUKHUMVIT 11
ADDRESS : 35 SUKHUMVIT SOI 11 (CHAIYOT), SUKHUMVIT ROAD, KHLONG TOEI NUEA WATTHANA BANGKOK 10110
CONTACT INFORMATION :
SAMPLING SOURCE : DECORATIVE FOUNTAINS
SAMPLE TYPE : WATER SUPPLY
SAMPLING DATE : APRIL 9, 2024
SAMPLING TIME : 14:10 HOUR
SAMPLING METHOD * : STERILE TECHNIQUE
SAMPLING BY * :
ANALYZED BY :
RECEIVED DATE : APRIL 9, 2024
ANALYTICAL DATE : APRIL 9-22, 2024
ISSUE DATE : MAY 3, 2024
REPORT NO. : 2024-U037144
WORK NO. : 2023-010065
ANALYSIS NO. : T24AH590-0003

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT
			WATER SUPPLY T24AH590-0003	
MICROBIOLOGY				
Legionella spp.	CFU/L	ISO 11731:2017-05 (E)	NOT DETECTED	100
SAMPLE CONDITION				
WATER'S COLOUR/TURBID			COLOURLESS/CLEAR	
SEDIMENT			-	

THE LABORATORY HAS BEEN ACCEPTED AS AN ACCREDITED LABORATORY COMPLYING WITH THE ISO/IEC 17025.

* : TEST METHOD ARE NOT COVERED COMPLYING WITH THE ISO/IEC 17025, VERIFIED BY OWN LABORATORY QUALITY SYSTEM.



ภาคผนวก จ-5
คุณภาพน้ำดื่ม

ANALYSIS REPORT

CUSTOMER NAME : ALOFT BANGKOK SUKHUMVIT 11
ADDRESS : 35 SUKHUMVIT SOI 11 (CHAIYOT), SUKHUMVIT ROAD, KHLONG TOEI NUEA WATTHANA BANGKOK 10110
CONTACT INFORMATION :
SAMPLING SOURCE : CANTEEN
SAMPLE TYPE : DRINKING WATER
SAMPLING DATE : JANUARY 9, 2024
SAMPLING TIME : 14:15 HOUR
SAMPLING METHOD ^c : STERILE TECHNIQUE
SAMPLING BY ^c :
ANALYZED BY :
RECEIVED DATE : JANUARY 9, 2024
ANALYTICAL DATE : JANUARY 9-15, 2024
ISSUE DATE : JANUARY 22, 2024
REPORT NO. : 2024-U005681
WORK NO. : 2023-010065
ANALYSIS NO. : T24AA389-0002

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			DRINKING WATER T24AA389-0002		
MICROBIOLOGY					
COLIFORM BACTERIA ^b	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: PART 9221 B AND C)	< 1.1	< 22	1.1
FAECAL COLIFORM BACTERIA ^b	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: PART 9221 B, C AND E)	< 1.1	-	1.1
<i>E. coli</i> ^b	/100 mL	FLUOROGENIC SUBSTRATE TEST (SM: PART 9221 D AND F)	NOT DETECTED	NOT DETECTED	-
HETERO PLATE COUNT ^b	CFU/mL	STANDARD PLATE COUNT (SM: PART 9215 B)	2.8x10 ⁵	-	1
<i>Clostridium perfringens</i> ^c	/100 mL	ENVIRONMENT AGENCY, THE MICROBIOLOGY OF DRINKING WATER, 2010 PART 6	NOT DETECTED	1/	-
SAMPLE CONDITION					
WATER'S COLOUR/TURBID			COLOURLESS/CLEAR		
SEDIMENT			-		

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

^b : ISO/IEC 17025 ACCREDITED BY DEPARTMENT OF SCIENCE SERVICE (DSS)

^c : VERIFIED BY OWN LABORATORY QUALITY SYSTEM, BUT STILL NOT ACCREDITED

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

REGULATORY STANDARD : BOTTLED DRINKING WATER QUALITY STANDARDS, NOTIFICATION OF THE MINISTRY OF PUBLIC HEALTH, NO.61, B.E. 2524 (1981) ISSUED UNDER THE FOOD ACT, B.E. 2522 (1979), PUBLISHED IN THE ROYAL GOVERNMENT GAZETTE, VOL.98, PART 157 (SPECIAL ISSUED), DATED SEPTEMBER 24, B.E. 2524 (1981).

1/ : DISEASE-CAUSING BACTERIA IS NOT DETECTED.

COMMENT : ALL TESTED PARAMETERS ARE COMPLIED WITH REGULATORY STANDARD.

